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Research Paper

ECONOMICS OF RABI ONION MARKETING IN SATARA DISTRICT: **PROBLEMS AND PROSPECTS**

Prof. Barakade A. J.

Department of Geography Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (M.S.) Dist: Solapur, 413304

Abstract:

The present study was carried out in 2010-11 to determine the economics of onion marketing of onion in Satara district. The onion is one of the most important vegetable crop grown in India. At least 175 countries grow onions. India is second largest onion growing country in the world. The total area under cultivation of onion crop is 8,04,600 thousands bectares with total production of metric tonnes during the year 2008-0.9. The present study was carried out in during the year 2010-11 to determine the economics of onion marketing in Satara district. An attempt is made to estimate the various marketing costs and margins and the onion growers share in the consumer's rupee, marketing efficiency of onion and the problems face by the onion growers in the marketing of onion in Satara district of Maharashtra.

Key words: -- Economics, Onion , cost , Marketing, Problems, Prospects.

. For selection of the sample cultivators a list of rabbi onion growers along with their operational holding for each of the selected villages was prepared. A list of all the onion producing farmers from each selected village was prepared and classified in three groups i.e. small (below 2 ha), medium(2-4 ha) and large (above 4 ha) based on land holding size of the farmers. 180 farmers from all selected village were selected randomly. Farmers in each size groups are in proportion to their number in universe all 60 small, 60 medium and 60 large category farmers were selected. The primary data were collected by survey method with the help of pre-tested schedule of questionnaires through personal interview.

Introduction:

Onion is one of the most important vegetable grown in India. Which is used either in raw or dehydrated from to add flavor and taste to Indian cousin. Since onion has medicinal values, it is used in some pharmaceutical preparation also. The diverse agro-climatic conditions enable to India to produce onion in one or the other part round the year. At present, India stands second larger producer of onion in the world next only to China. (FAO, Production Year Book, 2008). At least 175 countries grow onions. According to the United Nations Food and Agriculture Organization. There are an estimated 6.7 million acres of onion in the world. Onion is commodity of mass consumption and is

Satara district has area under onion cultivation 13,826 hectares during the year 2008-09. In Satara district Man, Phaltan, Khatav and Khandala tahsils leading of onion producers.

Study Area:

The Satara district is situated in west part in Maharashtra state. This district consists eleven tahsils covering 1739 villages. The total area extent is of 10,480 sq. km. extending from 170 5' to 180 11' north latitudes and 730 33' to 740 54' east longitudes. This district is confined by Pune district to north, Solapur district to east, Sangli district to south and Ratanagiri district and Raigarh districts to west (Fig.1). Satara district has a typical landscapes due to variations in relief, climate and vegetation. The variation of relief ranges from the pinnacles and high plateau of the main Sahyadrians range having heights over 1200 meters above mean sea level to the subdued basin of Nira river with an average height of about 600 meters above mean sea level. The climate ranges from the rainiest in the Mahabaleshwar region which has an average annual rainfall of over 6000 mm to the driest in Man, Phaltan, Khandala and Khatav tahsils where the average annual rainfall is about 500 mm. The vegetable about cover to varies from the typical monsoon forest in the west parts. Rice, jowar, bajra, onion, potato, ginger, fruits, vegetables, sugarcane and pulses are mainly cultivated in the district.



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Objectives:

The present study has been undertaken with the following specific objectives.

1.To find out the cost and returns of onion production of recommended cultivation practices by the growers.

2. To find out the problems faced by the production and marketing of rabi onion growers.

3. To find out prospects of onion cultivation in study region. Data Base and Methodology:

This study is based on primary data collected from onion growers of Satara district. Sampled area was selected for study due to a major onion growing area. A list of onion growers was collected from Agriculture Extension department and out of that list 180 onion growers were randomly selected for interview. Onion producing farmers from each selected village was prepared and classified in three groups i.e. small (below 2 ha.), medium (2- 4 ha.) and above (4 ha.) based on land holding size of the farmers. The required primary data pertaining to cost, yield, prices and expenditure for the year 2010 -11 were collected from selected onion growers.

Cost and return per hectare of onion production:

Cost of production means the expenses incurred per unit of output. The items of cost that go into the cost of production are both fixed cost remains fixed in the short run, it is in the variable cost or operation cost that the farmers have some scope to make economy.

Kumbhar (2000) studied economic of production and marketing of rabbi onion in Pune district. The major items cost of cultivation were seeds, hired human labour, manures, bullock charges, fertilizer and rental value of land. Mohaptra and Romeo (2007) studied that the average per hectare cost of cultivation of onion in Bolangir district of Orissa. Shah (1999) conducted was study on an economic evaluation of onion production and its marketing in Maharashtra. The analysis of cost structure revealed that total cost of onion production was found much higher in rabbi season compared to that during Kharif season. This find true for all categories of onion producers.

Market price of input that were prevailing at the time of their use were considered for working out of cost of cultivation. The gross return was calculated on the basis of market price of the produce at the time when the produce is ready for sale. Net returns Rs. Ha. was calculated by deducting the cost of cultivation from the gross income

Net Returns (Rs./ha.) Benefit Cost Ratio = ------

Cost of Cultivation (Rs./ha.)

It is seen from Table.1 that at the overall level in Satara district Man, Phaltan, Khandala, Khatav, Koregaon, Wai, Satara, Patan, Jaoli, and Karad tahsils the per hectare cost of cultivation of rabbi onion. It is evident percentage share of the total variable cost is Rs. 93500.19 (i.e. 91.09%) and fixed cost of production is Rs.9136.85 (i.e. 8.90%) to total cost of production.

Table.1

Cost and returns from onion production per quintal/ha.2010-11(all cost considered)..

Sr.No	Cost items	Total production	Total production
		cost Rs./ha.	cost Rs. / ha. in %
Α	Variable cost	93500.19	91.09
1	Land preparation	3177.72	3.09
2	Seeds	6318.17	6.15
3	Nursery raising	1165.15	1.13
4	Manures	7500.47	7.30
5	Fertilizers	7619.02	7.42
6	Pesticides	5800.17	5.65
7	Irrigation	4900.92	4.77
8	Transplanting	5200.25	5.06
9	Weeding and hoeing	3950.55	3.84
10	Harvesting and curing	6850.20	6.67
11	Repairs and maintaince	1760.10	1.71
12	Interest on variable cost @ 10% for	3855.90	3.75
	six months		
13	Transportation and marketing cost	35401.57	34.49
в	Fixed cost	9136.85	8.90
1	Depreciations	1160.80	1.13
2	Rental value of land	6874.73	6.69
3	Land revenue	69.80	0.06
4	Interest on fixed costs @ 10% for six	1031.52	1.00
	months		
С	Total cost of cultivation C= (A+ B)	102637.04	100.00
D	Returns		
	Production in quintal / ha.	258.50	-
Е	Gross Return @ Rs. 589.70	152437.45	-
F	Net Return ha.(E - C)	49800.41	-
G	Cost of production per quintal/ha.	397.04	-
	= (C + D)		

Land preparation (3.09%), seeds (6.15%), nursery raising (1.13%), manures(7.30%), fertilizers(7.42%), pesticides(5.65%), irrigation (4.77%), transplanting (5.06%), weeding and hoeing (3.84%), harvesting and curing (6.67%), repair and maintained (1.71%), interest on variable cost (3.75%) and transportation and marketing cost (34.49%) cost of total production. Among the different items of cost, the rental value of land, bullock charges, machine charges, total hired human labor charges, seeds, manures, fertilizers, plant protection and irrigation cost were the major items of cost of cultivation in all small, medium and large farmers.

Total cost of cultivation

Net Return

Gross Return The average net returns obtained by onion growers amounted to Rs.49800.41 per hectare with gross returns of Rs. 152437.45 per hectare. The average yield per hectare onion production 258.50 quintal. The comes cost of production rabbi onion per quintal Rs. 397.04 and net profit per quintal Rs.192.66. The Cost Benefit Ratio comes to about

only four to five months. The farmers in groups were asked to estimate the cost depending on their practices and experiences and their net profits based on the price they generally received. Being are of farm profitability from practices, time and location of production and marketing and supply and demand situation in market. These finding are in conformity with the finding of Jat and Jain (2008) and Nikam (2008).

1:1.48. It is definitely an encouraging return to the farmers

Per quintal price

Cost of production Net Return

Price spread of onion incurred (Per quintal Rs.)

For the marketing of onion the important channel were identified (1) Producers-consumer(2) producerhowcker-shopkeeper-consumer (3) producer-wholesaler-

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retailer-consumer.

It was observed Table.3 data presented reveals that producers share in consumers rupee 78.68 percent by selling fresh onion. The wholesalers and retailers are taking away

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the major share of 5.37 percent and 8.76 percent of consumers price without investing any penny in the marketing process. The onion growers did not have any control over the market due to the absence of coordination and integration among themselves. All the expenses in the marketing process are incurred by the producers practically the retailers or buyer charges paid to mandi are also charged from the producer.

	Price spread of onion		
Sr.	Particulars	Rs.	% Share to
No		quintal	consumer
		quintur	Rupee
A	Farmers sale price	-	-
1	Producers sale price	589.70	76.83
2	Marketing cost paid by producer	136.95	17.84
3	Net price received by producer	452.75	58.98
В	Marketing costs		
1	Wholesaler commission (@ Rs. 7%)	41.27	5.37
2	Retailers / Buyers charges paid to the mandi (@Rs.2%)	11.79	1.53
3	Market fee and transportation	20.00	2.60
4	Hamali charges	10.00	1.30
С	Retailers purchase price	672.76	87.65
D	Retailers margin (@ Rs. 10%)	67.27	8.76
Е	Miscellaneous charges (Packing, handling etc.)	27.50	3.58
Е	Consumers purchase price or Retailers sale price	767.53	
F	Producers share in consumers rupee	177.83 per quintal	
	(Rs.767.53 – Rs. 589.70)		
Sourc	e: Based on field work 2010-11		

Marketing efficiency of onion:

Table. 4

r.No	Particular	Rs./ quintal
1	Value of sold	767.53
2	Total marketing cost	136.95
3	Retailer margin	67.27
4	Marketing efficiency	2.75

Marketing efficiency is an indicator of effectiveness of the marketing system with which it operates. For analyzing the marketing efficiency, modified method as suggested by the Aharya and Agarwal (1999) was used. The marketing efficiency index was worked out and is presented in Table.4.

It is obviously clear from the data depicted in Table.4 marketing efficiency was estimated by using below formula. R.P.

Where,

M.E. = Marketing efficiency

- R.P. = Retailer sale price
- T.M.C.= Total marketing cost
- R.M. = Retailer margin

The marketing efficiency of onion worked out to 2.75 which is quite low. This is so because of high marketing margins and marketing costs. Similar finding noticed by Suryawanshi (2005) in his study onion storage and marketing of Ahmednagar district.

Constraints in production and marketing of onion:

The selected farmers were contacted opinion survey for analyzing the constraints in production as well as in the marketing of onion. They expressed number of constraints 92.77 per cent, on-availability of good quality of seed 68.88 per cent, and ignorance of severe infestation of insect-pest disease control 60.00 per cent. Non-availability of adequate storage facilities of onion was the main problem expressed by 63.33 per cent of the sample farmers did not store onion on their

Table.2

Sr.No	Constraints relating	No of sample farmers	Percent to total
		expressed the problem	NO = 180
Α	Production		
1	Non-availability of good quality seed	124	68.88
2	High price of seed, fertilizers, pesticides	155	86.11
	and fungicides		
3	High wage rat of labour	167	92.77
4	Ignorance of severe infestation of	108	60.00
	insect-pest disease control		
5	Non-availability of funds from	97	53.88
	institutional sources		
В	Marketing		
1	Lack of transportation	137	76.11
2	High charges of transportation	166	92.22
3	Lack of road	67	37.22
4	Lack of market yard	129	71.66
5	Traders collusion	55	30.55
6	Malpractices by traders	135	75.00
7	Higher market charges	142	78.88
8	No correct weighing	87	48.33
9	Lat payment	77	42.77
10	Lack of credit facilities	109	60.55
11	Lack of packing material	131	72.77
12	Price fluctuation and crashes	169	93.88
13	Lack of price information	119	66.11
14	Lack of storage in market yard	155	86.11
15	Non-availability of adequate storage	114	63.33
	facilities		

farm due to lack of storage structure followed by price fluctuations and crashes 93.88 per cent. Various types of malpractices such as deducting certain amount of quantity extra (karda) etc. were common in almost all markets. The problem of collusion (secret agreement) between commission agents and the buyers (outside traders) during the auction was also reported 30.55 per cent of the sample farmers. Problem of higher market charges was reported by 78.88 per cent of total sample farmers. The problem of cheating in weighing by the traders was 48.33 per cent of sample farmers. Undue delay in receiving payment after the sale of their produce was reported by 42.77 per cent of sample farmers. Problem of getting credit to meet the marketing cost was also reported by 60.55 per cent of sample farmers. About 86.11 per cent of farmers felt there is need for temporary storage facilities in the market because some times farm produce could not be sold on the same day due to low price or lack of adequate number of buyers in the market. About 66.11 per cent of the total sample of onion growers felt there should be same system where by in addition to Television, Newspaper, Radio information about the prices prevailing in other markets could reach the farmers. The main source of price information for farmers was through neighbors/fellow farmers or by personal visits. Lack of packing material of onion was reported by 72.77 per cent of sample farmers. Unremunerative prices during the peak season and lack of storage facilities were reported to be the important constraints by onion growers. Besides high price of seed, fertilizers and pesticides, costly transportation and te skilled lal

which are listed in Table.2, reveals that the high price of seed, fertilizers, pesticides and fungicides were the main problem expressed by 86.11 per cent of the sampled onion farmers in production followed by non-availability of funds from institutional sources 53.88 per cent, high wage rate of labour	markets were main problems reported by onion producers. Future Thrust: In the prevailing scenario, to enhance the cultivation	
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	onion.
	Conclusion:
1. The physiographic affects on onion cultivation in the	
study region. To minimize the regional imbalances and to	
develop onion cultivation in the study region. It is essential to	
provide adequate water resources in eastern part of the Satara	
district.	
2. Before the transplantation of onion soil testing is essential	
to avoid the high dosage of fertilizers. 3. Training needs of onion growers.	
4. Study could be taken up to compare with the	
recommendations made by the Agricultural Universities and	
private organizations.	
5. Development of suitable marketing strategy for onion	
6. The yield and price risks were more in study area.	
Therefore there is a need to encourage the farmers to take up	
the measures like crop insurance policy.	
7. The State government should give due attention for	
providing proper approach roads to the villages and also	
providing storage facilities to help the farmers to store the	
onions.	
8. The present study was carried out in only one district of the	
State . So it needs to be replicated on larger samples covering	
all the onion growing areas of Maharashtra of the state. So	
that the internees drawn can be generalized to a grated	
extent.	
9. The focus of this investigation was only on production and	
marketing aspects of onion, so study may be taken up on	
other, important aspects, with large sample size and more	
variables such as indigenous technological aspects. Study of	
possibilities of export and communication behavior of onion	
growers.	
10. The government may formulate an appropriate policy to	
invest in research and development for enhancing the yield	
of these crops. Major investments shall be made to improve	
marketing system and in supportive infrastructure was	
recommended to facilitate marketing and trade of onion.	
There is strong need to establish for collaboration between	
private and public research and development programs to	
improve management practices particularly, the efficient use	
of available technology for timely and efficient production.	
11. The APMC are a not providing the information required	
by the farmers directly to them. Hence there is a need to	
develop a system of market information utilizing modern	
information communication techniques. So that the farmers	
are provided with the required market information at the village itself so as to make appropriate decisions with respect	
to production and marketing. Plans including post harvest	
management, storage, sorting, grading, drying, packing and processing and sale of agriculture commodities	
12. The onion seed and storage place should be treated before	
storing and sowing to avoid the infection pest and diseases.	
13. There is need for survey and diagnosis of lands suitable	
for onion and development of area specific farming, system	
model in cluster approach.	
14. There is also need for integrated research for post harvest	
handling, packaging, transportation, storage and quality	
control of perishable commodities.	
15. There is need to increase adoption and judicious use of	

15. There is need to increase adoption and judicious use of available resources especially seeds, plant protection,

techniques and non-cash input like planting layout, time and method of fertilizer application, manure application, irrigation turns, harvesting and curing. The farmers should be encouraged to grow onion crop by support price policy and creating cold storage facilities at reasonable rates for		
and creating cord storage facilities at reasonable fates for	Indian Streams Research Journal	3