

Original Research Article

Estimation of Marketing cost, marketing margin and Constraints in production of paddy cultivation in Prayagraj district of Uttar Pradesh.

Abstract: The present study was conducted in Prayagraj District of Uttar Pradesh. A total of one hundred respondents were selected randomly. The data were gathered using pre-structured interview schedule. The study revealed that marketing cost, marketing margin, and price spread for channel I, paddy grower reaches to the consumers directly. Producer share in consumer price was 94.14 percent. Price spread was Rs.99.57/quintal. Market efficiency was 16.07. marketing cost, marketing margin, and price spread for channel II three intermediaries were identified through which paddy reaches to the consumer's i.e, village merchant, Miller, Retailers. This is the longest channel among the two identified channels. Producer share in consumer price was 57.19 percent. Price spread was Rs.1152.2/quintal. Market efficiency was 1.70. among the ten constraints related to production of paddy was high cost of plant protection chemicals was ranked first by sample farmers and was reported by 64.59% while high incidence of disease in the peak period ranked second.

Keywords: marketing cost, marketing margin, price spread, constraints

INTRODUCTION:

Marketing is frequently seen as a potent multiplier and development engine. A productive rice marketing system will lower marketing expenses and increase middleman profit, increasing the farmer's share of the consumer rupee. Marketing is the last step in the farming process, where the farmer turns all of his labour and capital into money. Any unfavourable treatment at this crucial juncture will likely lessen the farmer's desire to continue investing in and operating the farm. The emergence of regulated markets has caused fundamental changes to start occurring in India's traditional agricultural market structure. A well design marketing strategy can help farmers generate much more income. Therefore, it is vital to compute marketing

expenses, margins, and price spread while marketing paddy. Paddy farmers confront a number of marketing difficulties. Among the most important are higher marketing expenses, price changes, and a shortage of transportation. The bulk of rural markets lack the essential facilities—such as auction platforms, godowns, and warehouses—necessary for effective crop trade. For rice farmers, all of these problems lead to lower farm income levels and a low producer share of the consumer rupee.

RESEARCH METHODOLOGY:

Sampling design:

Multi-stage random sampling design was adopted for the selection of district as the first stage units, block as the second stage unit, villages as the third stage units and farm holdings as the final and ultimate stage units.

Selection of the district:

Keeping in view the limitation of resources and time, the study was conducted in Prayagraj District of Uttar Pradesh.

Selection of block:

Out of the 23 blocks of selected district, Koraon block is selected due to highest net sown area of paddy in the district.

Selection of villages: A complete list of all villages was obtained from the related Gram Panchayat, therefore, 5% villages were selected randomly. The villages Belvaniya, Babhan patti, Sukulpur, Dhanapur and Banwari were selected.

Selection of farmers/respondents: A separate list of farmers growing paddy of selected villages were obtained from Gram Pradhan. Thereafter these farmers were categorized into different size farm groups. Out of that, 10% respondents were selected randomly on the basis of paddy cultivation for the study. Based on size of holding, farmers was classified into three groups i.e.

1. Marginal farmer (below 1 ha)
2. Small farmer (1-2 ha)
3. Semi-medium farmer (2-4 ha)
4. Medium farmer (4-10 ha)
5. Large farmer (>10 ha)

From this list 100 respondents were selected randomly through proportionate allocation to the population.

Analysis of data:

Marketing Cost:

The total cost incurred on marketing by various intermediaries involved in the sale and purchase of the commodity till it reaches the ultimate consumer can be computed as follows:

$$C = C_f + C_{m1} + C_{m2} + C_{m3} + \dots + C_{mn}$$

Where, C = Total cost of marketing

C_f = Cost borne by the producer farmer from the cost produce leaves the farm till the sale of the produce, and

C_{mn} = Cost incurred by the i^{th} middlemen in the process of buying and selling.

Marketing margin of middlemen:

Absolute margin = $P_{Ri}(P_{pi} + C_{mi})$

Percentage margin of i^{th} middlemen (P_{mi}) = $P_{Ri} - (P_{pi} + C_{mi}) \times 100 P_{Ri}$

Where, P_{Ri} = total value of receipts per unit (sale price)

P_{pi} = Purchase value of goods per unit (purchase price)

C_{mi} = Cost incurred on marketing per unit

The margin includes profit to the middle men and return to the shortage, interest overheads and establishment expenditure.

Price spread :

Price spread is the difference between the price paid by the consumer and the price received by the producer for an equivalent quantity of the farm produce.

$$\text{Price spread} = \frac{(\text{consumer price} - \text{net price of producer})}{\text{consumer price}} \times 100$$

Garrett's ranking technique:

In Garrett's scoring technique, the respondents were asked to rank the factors or problems and these ranks were converted into percent position by using the formula

$$\text{Percent position} = \frac{100(R_{ij} - 0.50)}{N_{ij}}$$

R_{ij} = Rank given for the i^{th} variable by j^{th} respondents

N_j = Number of variable ranked by j^{th} respondents

RESULT AND DISCUSSIONS:

Channel-1: Producer - Consumer

Channel-II: Producer - village merchant - Miller - Retailer - Consumer

Table 1: Marketing cost in marketing of paddy through Channel I.

S.No.	Particulars	Sample average (Rs/qtl)
1.	Producer sale price to consumer	
2.	Cost incurred by producer	
	i. Transportation cost	25 (1.47)
	ii. Gunny bag cost	24 (1.41)
	iii. Loading unloading cost	28.57 (1.68)
	iv. Weighing charge	10 (0.58)
	v. Miscellaneous charge	12 (5.85)
3.	Total Marketing Cost	99.57 (5.85)
4.	Net price received by Producer	1600.43 (94.14)
5.	Sale Price to Consumer	1700 (100)
	Producer share's in consumers rupee	94.14
	Price Spread	99.57
	Marketing efficiency	16.07

(Figures in parenthesis indicate percentage to the total)

Table 1 reveals that marketing cost, marketing margin, and price spread for channel I, in this channel, paddy reaches to the consumers directly. Average marketing cost when producers sold the consumer is Rs 1700/q. Among these cost transportation Rs.25/q, loading and unloading cost Rs. 28.57/q, packing material cost Rs. 24/q, weighing charges Rs.10/q, and miscellaneous charge cost Rs 12/q, respectively. Sale price of the producer to the Consumer was Rs.1700/q

In these channel, Producer share in consumer price was 94.14 percent. Price spread was Rs.99.57/quintal. Market efficiency was 16.07.

Table 2: Marketing cost in marketing of paddy through Channel II

S.No.	Particulars	Sample average(Rs/ctl)
I	Producer sale price to village merchant	
1.	Cost incurred by producer	
	i. Transportation cost	40 (1.48)
	ii. Gunny bag cost	24 (0.89)
	iii. Loading unloading cost	25.6 (0.95)
	iv. Weighing charge	10 (0.37)
	v. Miscellaneous charge	10.6 (0.39)
2.	Total Marketing Cost	110.2 (4.09)
3.	Sale Price to village merchant	1650 (61.29)
4.	Net price received by Producer	1539.8 (57.19)
II	Village Merchant to Miller	
1.	Cost incurred by Village merchant	
	i. Transportation cost	35 (1.30)
	ii. Loading unloading cost	16.5 (0.61)
	vi. Storage cost	25 (0.92)
	vii. Miscellaneous charge	10.5 (0.39)
2.	Total Marketing Cost	87 (3.23)
3.	Marketing margin by village merchant	250 (9.28)
4.	Sale Price to Miller	1987 (73.81)
5.	Net price received by Village merchant	1900 (70.57)
III	Miller sale price to Retailer	
1.	Cost incurred by Miller	
	i. Transportation cost	30 (1.11)
	ii. Bagging charge	30 (1.11)
	iii. Processing charge	150 (5.57)
	iv. Loading unloading cost	20 (0.74)
	v. Miscellaneous charge	32 (1.18)
2.	Total Marketing Cost	262 (9.73)
3.	Marketing margin by Miller	220 (8.17)
4.	Sale Price to Retailer	2382 (88.48)

5.	Net price received by Miller	2120 (78.75)
IV	Retailer sale price to Consumer	
1.	Cost incurred by Retailer	
	i. Transportation cost	40 (1.48)
	ii. Loading unloading cost	20 (0.74)
	iii. Storage cost	40 (1.48)
	iv. Miscellaneous charge	10 (0.37)
2.	Total Marketing Cost	110 (4.08)
3.	Marketing margin by Retailer	200 (7.42)
4.	Sale Price to Consumer	2692
5	Net price received by Retailer	2582 (95.31)
	Consumer paid price	2692 (100)
	Producers share in consumer rupee	57.19
	Price Spread	1152.2
	Marketing efficiency	1.70

(Figures in parenthesis indicate percentage to the total)

Table 2 reveals that marketing cost, marketing margin, and price spread for channel II three intermediaries were identified through which paddy reaches to the consumer's ie, village merchant, Miller, Retailers. This is the longest channel among the two identified channels. The producer sells his produce to the village merchant, and village merchant to Miller, and miller to retailer, and retailer to consumer. Finally the produce reaches consumers after collecting margin. Average marketing cost when producers sold their produce to village merchants was Rs. 110.2/q. Among these cost transportation Rs.40/q, loading and unloading cost Rs. 25.6/q, packing material cost Rs. 24/q, weighing charges Rs.10/q, and miscellaneous charge cost Rs 10.6/q, respectively. Sale price of the producer to the village merchant was Rs.1650/q in different forms size groups

In this channel II marketing cost of the producer, village merchant, miller, wholesalers and retailers was 4.09 percent, 3.23 percent, 9.73 percent and 4.08 percent of consumers paid price respectively. The village merchant margin was estimated to be 9.28 percent and the retailer's margin was 7.42 percent of the consumer paid price. Producer share in consumer price was 57.19 percent. Price spread was Rs.1152.2/quintal. Market efficiency was 1.70.

Table 3: Price spread and marketing efficiency

S.No.	Particulars	Channel I	Channel II
1.	Total marketing cost	99.57	569.2
2.	Total marketing margin	0	670
3.	Price spread	99.57	1152
4.	Producer share in consumer rupee	94.14	57.19
5.	Marketing efficiency	16.07	1.70

Table 3 explains about Price spread, producer share in consumer rupee and marketing efficiency in channel-1 is 99.5, 94.14 and 16.07 respectively. Price spread, producer share in consumer rupee and marketing efficiency in channel -II is 1152, 57.19 and 1.70 respectively.

Table 4: Constraints in production of paddy:

S.No.	Particular	Average score	Rank
1.	High incidence of diseases	59.63	II
2.	High cost of seed	47.03	VI
3.	High interest rate on loan	45.15	VIII
4.	Inadequate credit	50.26	V
5.	Poor soil fertility	45.99	VII
6.	Uncertain weather	41.31	IX
7.	Lack of knowledge and improved technology	38.89	X
8.	High cost of manure and fertilizer	53.18	III
9.	High cost of plant protection chemicals	64.59	I
10.	High wages for labour	50.97	IV

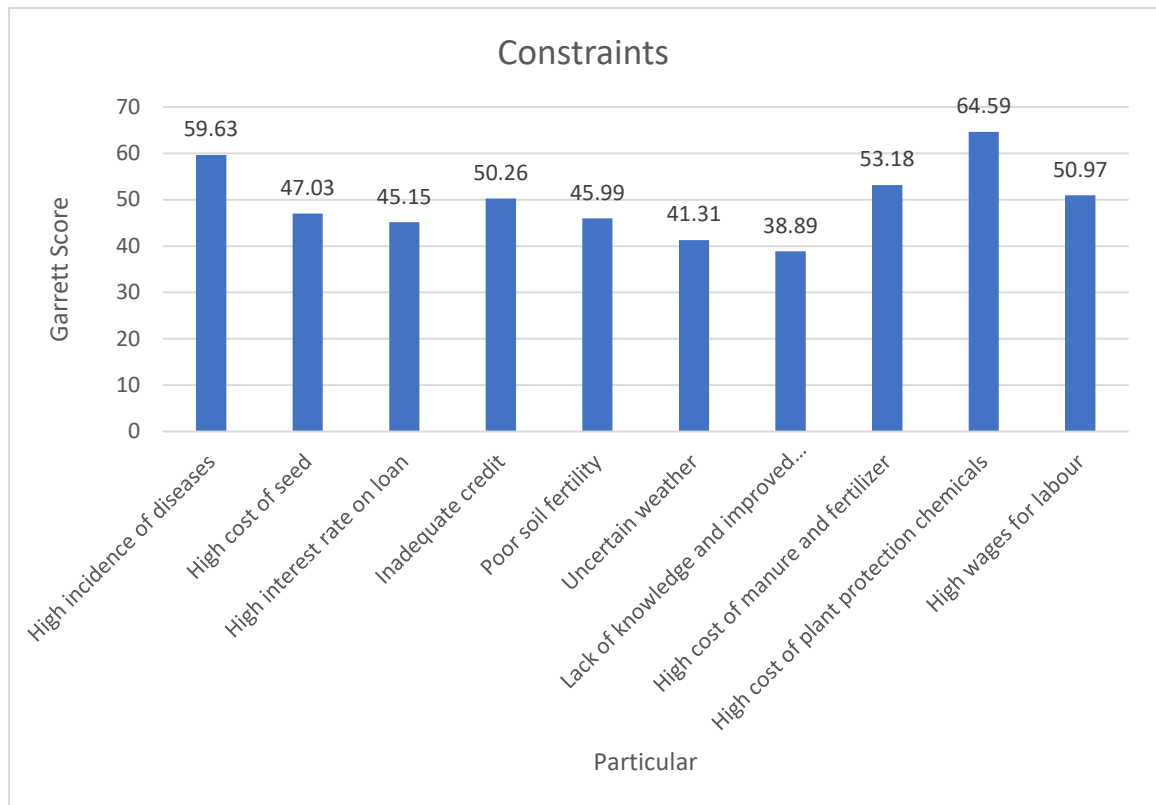


Fig 1: Constraints in production of paddy

To find out different constraints/problems in production of paddy in different size of farm group in study area.

Table 4 explains about the constraints face in production of paddy. In overall comparison 64.59 percent have problem about high cost of plant protection chemicals and 59.63 percent respondents have problem about high incidence of diseases, 53.18 percent respondents have problem about high cost of manure and fertilizer, 50.97 percent respondents have problem about high wages for labour, 50.26 percent respondents have problem about inadequate credit, 47.03 percent respondents have problem about high cost of seed, 45.99 percent respondents have problem about poor soil fertility, 45.15 percent respondents have problem about high interest rate on loan, 41.31 percent respondents have problem about uncertain weather, 38.89 percent respondents have problem about lack of knowledge and improved technology.

CONCLUSION:

Among the two marketing channels identified in Koraon block, the channel-I. i.e. Producer - Consumer was found more popular in marketing of paddy. The average per hectare yield and gross return were maximum on medium size farms followed by small and marginal size respondents. The prices of paddy have not influenced by the arrivals in market. The important constraints faced by the sample paddy cultivators were high cost of plant protection chemicals, high incidence of diseases, high costs of manures and fertilizer, high wages for labour, inadequate credit, high costs of seed, poor soil fertility, high interest rate on loan, uncertain weather, lack of knowledge and improved technology. The long chain of the channels affect the procurement price of the paddy. Therefore, the govt. authority should direct the co-operative and commercial banks in the study area to provide advocate loan facilities at reasonable rates of interest to the farmers without any rigid formalities.

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