

CONSTRAINTS OF FARMERS IN RICE MARKET IN THE ALAPPUZHA DISTRICT

Divya Vijayan and Dr. K.N. Ushadevi,

Research Scholar, Dept. of Rural Marketing Management, CCBM, KAU
Professor and Head, Dept. of Rural Marketing Management, CCB&M, KAU

Received November 12, 2021 and Accepted December 15, 2021

ABSTRACT: Rice is Kerala's major food crop, and demand for rice is gradually increasing as the state's population grows. The paper aimed to identify the constraints of rice farmers of Alappuzha district in the rice market. Both primary and secondary data were used for the study. Primary data were collected from rice farmers. 60 farmers were selected from the Champakulum block of Alappuzha district as the major rice-producing district in Kerala based on simple random sampling. The results were analysed based on the Garrett ranking method. Farmers were confronted with production constraints such as scarcity and high labour costs, making rice cultivation challenging due to its labor-intensive nature. High loading charge and delay in procurement came into the major constraints of rice market. Financial restrictions were recognised as the key constraints in the rice market, including a lack of subsidies, financial support, and access to sufficient credit. If MNREGA can consider rice cultivation in their list of operations, they can supply enough labour for the production and post-production operations of rice. The government can be more circumspect in its political intervention and avoid unnecessary interference of intermediaries who are suspected in the rice market.

KEY WORDS: Farmer, Rice, Alappuzha, Cultivation, Constraints

Rice is the world's second most popular percent of the total consumption requirement. cereal, both in terms of production and consumption. Therefore, the flow of rice from Andhra Pradesh consumption. In terms of output, India ranks second, and West Bengal has increased in order to meet the India produces 20 per cent of the world's white and consumption needs. In spite of this, area under brown rice, making it one of the world's most cultivation for rice has increasingly been converted important rice producers. Rice is Kerala's major either to cultivation of other crops or for non-food crop, and demand for rice is gradually agricultural purposes. This is mainly due to the increasing as the state's population grows. The area relatively low profitability, the existence of large under rice cultivation in Kerala during the number of intermediaries, frequent fluctuations in agricultural year 2018-19 is 2, 02,907.13 Ha. It is price and other marketing constraints faced by increased by 8,672 .13 Ha than the previous farmers in rice market.

agricultural year 2017-18 (Economic review, 2020). There is a declining trend in the area under rice. There is 4,880.92 ha dry land rice cultivation in growing in the state. In 1961-62, the total rice area Kerala during 2018-19. Wet land Rice area during was 7.53 lakh hectares, and in 1975-76, it was 8.76 2018-19 is 1, 98,026.21 Ha. Wet land rice area lakh hectares. Following that, rice cultivation during 2018-19 is increased by 8,940 Ha (4.73%) decreased steadily, reaching 2.29 lakh hectares in than the previous agricultural year 2017-18. On the 2007-08 crop year. However, rice farming comparing with in the year 2001-02 38.57% of wet expanded to 2.34 lakh hectares in 2008-09. When land rice area decreased during 2018-19. On compared to 1975-76, the area under rice cultivation analysing the area of last 10 years, rice cultivation is declined by 76.49 per cent in 2018-19 (GOK: 2018-high during the agricultural year 2009-10 and the 19). A study evaluated the problems in paddy area is 2,34,013 Ha. Total rice area accounted cultivation reference to Palakkad district (Pramod, 7.89% of the total cropped area in the state during 2018). The result revealed that low price of paddy 2018-19. There was only a marginal increase in the weeds problem, inadequate support price, labour productivity of rice during the past four decades shortage, and marketability problem, water scarcity, (GOK: 2018-19).

STATEMENT OF PROBLEM

Kerala is deficit in rice production and the demand- Mukesh (2016) discussed in his article on dynamics supply gap for rice in the market, which was around of paddy cultivation in Kerala that main reasons for 45 percent in 1957, increased to more than 85 the declining trend in rice production in Kerala were percent in 2009 due to the large scale decline in area low price for the output has given to farmers and it (Leenakumari, 2010). A study by Athira (2017) also is unprofitable. But the price of rice in market was shows that rice produced in the state meets only 15 increasing due to intervention of intermediaries. It is

concluded that if government was not taking any institutional and financial constraints. The results initiatives in production and marketing of rice it were analysed based on the Garrett ranking method might lead to continue the same declining trend in (Dhanavandan, 2016). Based on the Garret ranks, Kerala for rice production. In this situation, an in-the garret value was calculated. The Garret tables depth study of the understanding of problems of and scores of each constraint were taken and farmers was needed. From pre-production to multiplied and finally by adding each row, the total marketing of rice, the farmers were gone through Garret score were obtained.

various hazards. Here the study has made an attempt

to study the constraints of rice farmers in Alappuzha Percent position = $100 \frac{(R_{ij} - 0.5)}{N_j}$

district.

N_j

RESEARCH METHODOLOGY

Where;

For the proposed study, rice market is defined as the R_{ji} = Rank given for the i th variable by the j th market for unmilled rice from rice farmers respondent

(excluding registered seed growers and specialty N_j = number of variables ranked by the j th rice growers) till the point of its sale for processing. respondent

Both primary and secondary data were used for the Based on the ranks obtained, the highest score is study. Primary data were collected from rice considered as the major constraint of farmers and farmers. 60 farmers were selected from the least score obtained constraint is considered as the champakulum block of Alappuzha district as the less affected constraint for a farmer.

major rice producing district in Kerala. List of

farmers were collected from Krishibhavan and the **PRODUCTION CONSTRAINTS**

respondents were selected randomly from the list. From land preparation to rice harvesting, rice Data from farmers were collected by adopting production goes through several stages. It is beset personal interview method using pre tested by issues such as a lack of inputs, irrigation, high structured interview schedule.

labour costs, natural disasters, weed development,

pests and illnesses, and so on. Production limits for

RESULTS AND DISCUSSION

farmers in three districts may alter depending on

The study identified various constraints of farmers local conditions. Rice producers' difficulties in rice viz, production, procurement, marketing, production are shown in the table- 1.

Table 1: Production constraints of farmers

Constraints	Alappuzha (n=60)		
	Score	Average	Rank
High cost of inputs	2552	42.53	10
Non availability of quality inputs	2640	44.00	9
Scarcity of labour	4265	71.08	2
High cost of labour	4526	75.43	1
Inadequate supply of seeds	3566	59.43	4
Insufficient availability of irrigation	1580	26.33	12
Untimely availability of irrigation	1176	19.60	13
Excessive weed growth	3601	60.02	3
Occurrence of pests ad diseases	3019	50.32	7
Natural calamity	3338	55.63	5
Uneven rainfall pattern	3307	55.12	6
Difficulties related to mechanization	2429	40.48	11
Salinity of soil	2934	48.90	8

It is clear from the table-1: that how the farmers were identified and ranked their problems that occurred in production times. In the Alappuzha district, the high cost of labour and scarcity of labour were considered major problems for farmers followed by excessive weed, inadequate supply of seeds and natural calamity respectively. They were also having issues with the quality of seed provided by Krishibhavans. The number of seedlings

produced from seeds will be minimal, and some seeds will not germinate. Therefore, it was necessary to acquire more seeds in addition to the subsidised seed. It is expensive for farmers to either buy seed or make seed at home. Farmers in Alappuzha do not need to worry about irrigation because the Kuttanad region has plenty of water. Farmers, on the other hand, find it difficult to generate high-quality rice crops due to the salinity

of the soil. Various ponds or backwaters span a large area in Alappuzha and are connected to the sea. In much of the coastal terrain, deltaic areas near river mouths and reclaimed backwaters are either at sea level or 1.0 to 1.5 metres below MSL. Production is tough in these fields, which are occasionally flooded with saline water. In recent decades, the 'Thannirmukkam-barrage,' built to protect rice growing from salt intrusion during the summer season has reduced such natural saline water intrusion, but it is still diminishing soil productivity. (Ray et.al, 2014). In other districts, salinity is not considered as an issue for the farmers. The seasonal shortage of agricultural labour is generally cited as a major cause of the current change in rice growing in Kerala. There has been a shift in the labour force from agriculture to a variety of non-agricultural occupations. Even though rice cultivation can be mechanised, many of the operations are still following manpower for their better results like filling of plants, weeding, fertilizing and so on. If MNREGA can consider

rice cultivation in their list of operations, they can supply enough labour for the production and post-production operations of rice. Government is considerate in providing subsidies for seeds. However, if the government can guarantee the quality of the seeds, it may help in the production of larger and higher-quality harvests, as well as provide support to farmers.

PROCUREMENT CONSTRAINTS

Procurement is an unavoidable aspect of the rice market since it ensures the right purchase of rice from farmers and its distribution to consumers based on SUPPLYCO. However, farmers, millers, and SUPPLYCO are having issues since rice procurement requires distinct methods. The difficulties may be conflicts between millers and farmers, as well as delays in procurement and other challenges with rice drying and cleaning. As a result, the constraints described in Table by farmers, millers, and SUPPLYCO regarding procurement of rice.

Table- 2: Constraints related to procurement

Constraints	Alappuzha (n=60)		
	Score	Average	Rank
Lack of demand	2570	42.83	5
Delay in procurement by agents	4113	68.55	1
High loading/unloading charges	3472	57.87	2
Favourable terms of sale with procurement agency	1536	25.60	6
Inadequate facilities for drying and cleaning	2791	46.52	4
Conflicts between procurement agents and farmers	3375	56.25	3

From table 2 based on ranks, it can be clear that delay in procurement and high loading charge are the major constraints in the Alappuzha district which is faced by farmers. The district's geographical situation differs from that of other districts in that rain might cause flooding. Due to the farmers' practice of storing rice in the field, any delays in procurement may have an impact on the yield's quality and quantity. As a result, the government should concentrate on obtaining rice from Alappuzha as soon as it is harvested. In the district, the loading fee is likewise very high. When farmers are required to use water transportation to reach marketplaces, the cost of loading may be doubled because of two time loading in boat and from boat to tipper of miller. They are not considering terms of sale of agents as a constraint as it is favourable to them. Because the price is set by the government, although there are disagreements between agents and farmers on quality and quantity of produce. They claimed that the agents were conducting the fraudulent activities impact on

produce quality standards on purpose. As a result, they seek to make compromises by giving their produce to millers who will count it as less than what they sold. These are the most significant restrictions for farmers in the Alappuzha district. Based on these findings, it is possible to conclude that high loading charge and delay in procurement came into the major constraints of rice market. So for alleviating these issues, the government may impose a common loading charge or that the government should contribute to the loading charge. The government may take steps to establish warehouses in each area to ensure prompt procurement. As a result, rice millers may procure and store a larger number of loads at a given time.

MARKETING CONSTRAINTS

All of the farmers sold their produce to SUPPLYCO. As a result, farmers do not need to look for traders to sell their produce. Farmers continue to face challenges such as transportation availability and

expense, payment delays, product loss, and so on. distance from procurement hubs, and other factors. Millers are also limited by a shortage of vehicles,

Table -3: Marketing constraints of farmers

Constraints	Alappuzha (n=60)		
	Score	Average	Rank
Delay in payment	2612	43.53	5
More distance to marketing centers	2112	35.20	7
Lack of transportation	3303	55.05	2
Transportation cost	3082	51.37	4
Losses occurred in transit	4258	70.97	1
Undue interference of agents	3284	54.73	3
Lack of storage facility	2148	35.80	6

From the table 3 losses in transit and a lack of transportation was the most prominent limitations mentioned by farmers in the Alappuzha district when it came to the marketing of rice. Losses occurred means when agents procured the entire quantity of produce but recorded a lower quantity on the receipt slip for the quality adjustments of produce. The amount is reduced to compensate for quality requirements that have been compromised. As a result, it is a huge issue for farmers.

INSTITUTIONAL CONSTRAINTS

Institutional constraints meant that legal and political constraints involved in the rice market. Law and politics may influence a market and it can make hindrances to farmers by unnecessary intervention or negligence in their needs. Those constraints are identified and shown in Table- .4.

Table -4: Institutional constraints of farmers

Constraints	Alappuzha (n=60)		
	Score	Average	Rank
MGNREGA not covering rice	3773	62.88	1
Ineffectiveness of Kerala Rice Land and Wetland Conservation Act, 2018	1553	25.88	5
Intervention of political parties in the procurement industry	3353	55.88	2
Political influence in rental government machineries	2997	49.95	4
Communication gap between institutions and farmers	3235	53.92	3

When considering the farmers in the district of Alappuzha, they believe that MGNREGA does not cover the rice and therefore insufficient labour and more labour costs are incurred in farming. Farmers also pointed to the intervention of the political party. This resulted in unfairness in procurement, such as early procurement of produce from politically influenced padasekharasamitis and the availability of government machinery only in their preferred locations. The government can be more circumspect in its political intervention and avoid unnecessary

interference of intermediaries who are suspected in the rice market. If MNREGA can include rice in their conditions, to reduce the cost of production and thereby better income.

FINANCIAL CONSTRAINTS

Financial constraints may occur in rice cultivation as it is a costly process. It is inevitable for the cultivation and the farmers were looking for the support from the government. Table 5 identified the financial constraints observed in the study area

Table- 5: Financial constraints of farmers.

Constraints	Alappuzha (n=60)		
	Score	Average	Rank
Lack of adequate subsidy from government	3303	55.05	1
Lack of sufficient quantum of credit	2827	47.12	5
Untimely availability of credit	3206	53.43	2
Lack of information on source of credit	2943	49.05	4
Lack of financial support for recovering loss	3050	50.83	3
Resistance of bank to provide credit	2551	42.52	6

The table 5 indicates that all the farmer respondents were experiencing a shortage of suitable government subsidies. Cultivation is quite tough in the Alappuzha district due to the topographical conditions. As a result, it is both risky and costly. As a result, the government has announced numerous subsidies to farmers to help them overcome these challenges, such as free seeds, fertiliser subsidies, and subsidies for bund formation and pump installation for lift irrigation. However, they claimed that the subsidies they were receiving were insufficient. Financial assistance for loss recovery is insufficient and not available on time, particularly during floods and other natural disasters. Finance is unavoidable for farmers who want to earn a profit from rice farming. Owned funds are sometimes insufficient for the operation of rice farming, necessitating government assistance. Subsidies and support can be provided through Krishibhavan based on the common needs of farmers at the time of cultivation, rather than off-seasonal benefits. So they can put the money to actual use rather than wasting it on frivolous expenses.

CONCLUSION AND SUGGESTIONS

The researcher identified various constraints faced by farmers and traders in rice market. Farmers were confronted with production constraints such as scarcity and high labour costs, making rice cultivation challenging due to its labor-intensive nature. If MNREGA can consider rice cultivation in their list of operations, they can supply enough labour for the production and post-production operations of rice. High loading charge and delay in procurement came into the major constraints of rice market. So for alleviating these issues, the government may impose a common loading charge or that the government should contribute to the loading charge. Losses in transit, lack of transportation, shortage of storage facilities and agency meddling were the major marketing constraints faced by the farmers in Kerala. Institutional constraints identified were MGNREGA does not cover the rice and

therefore insufficient labour and more labour costs are incurred in farming. Intervention of the political party in the area of machine allocation and procurement of rice were also faced by farmers. The government can be more circumspect in its political intervention and avoid unnecessary interference of intermediaries who are suspected in the rice market. Financial restrictions were recognised as the key constraints in the rice market, including a lack of subsidies, financial support, and access to sufficient credit. Krishibhavan can give subsidies and support to farmers based on their common needs during the growing season, rather than off-seasonal benefits. So they may put the money to productive use instead of squandering it on unnecessary purchases.

REFERENCES

- Athira, H. 2017., Scenario analysis of rice cultivation in Palakkad district. M.Sc (Ag) Thesis. Kerala Agricultural University, Thrissur.
- Dhanavandan, S., 2016. Application of Garret Ranking Technique: *Practical Approach.Int .J. Library Inf. Stud.*, **6**:135-140.
- J.G. Raya.; Dhanya V.b.; Binoy T., 2014. Globally unique Kuttanadu Wetland paddy soil of South India: Soil fertility in relation to seasons and different stages of the crop. *Int. J.Agric.* **125**: 296-304
- Leenakumari, S., 2010. Status paper on Rice in Kerala. Rice Research Station, Alappuzha, Kerala.
- Mukesh, K., 2016. Dynamics of paddy cultivation. *Int. J. Econ. Business Rev.* **3**: 225-232.
- Pramod, S., 2018. Problems in Paddy Cultivation reference to Palakkad District. *Int. J. Creative Res. Thoughts.* **6**: 906-912