Indian Journal of Extension Education Vol. 42, No. 3 & 4, 2006 (32-35)

## **Contract Farming of Sugarcane in Tamil Nat**

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#### ABSTRACT

A study was conducted on contract farming in sugarcane in Thanjavur district of Tamil Nadu during April-May, 2005. The data collected from 100 randomly selected sugarcane contract farmers revealed that assured price, credit, market, inputs, technology and reduced risk were perceived as the major motivating factors for contract farming in sugarcane. The farmers are highly satisfied with assured returns, risk reduction, timely availability of critical inputs including technical guidance, arrangement of credit and transport facility under various dimensions of contract farming. The factors such as delay in making contract, lifting produce at field, unloading the produce at factory and payment, inadequate field visit, falling ground water level and partiality towards big farmers were felt by farmers as major constraints in contract farming. Arrangement and supply of inputs in time, regular field visit and interaction with stakeholders to sort out the problems are the some of the suggested measures to further improve the performance of contract farming.

Over the years, assured procurement of crops at minimum supportive price has increased their production. However, this has created imbalances in the supply and demand of agricultural commodities, putting strain on natural resources. A slight increase in production of some of the crops leads to price crash in the absence of proper storage and processing facilities. Small land holders are normally reluctant to adopt new technologies because of the possible risks and costs involved. They are more likely to adopt new practices when they can rely on external resources for material and technological inputs. Having insulated from market risk, the focus of farmers shifts from prices to returns per acre. With a buyer in sight, the reliance of farmers on middlemen is almost eliminated. The entry of private sector under set rules and regulations can strengthen the existing marketing system and infrastructure facilities. In contract farming, a processing unit purchases the harvest of independent farmers under certain pre-negotiated terms and conditions on price, quantity, quality and input supply. Sugarcane crop is in contract farming arrangement sugar factories for very long time. Hence, a study performance of contract farming under sugarcane will to gain more knowledge and understanding and thereby in formulating appropriate policy measures. The prestudy was conducted with an objective of ascertaining factors contributory to contract farming.

#### METHODOLOGY

The study was conducted in Pattukottai and Peravur taluks of Thanjavur districts in Tamil Nadu during Ap May, 2005. The EID Parry Pvt. Ltd., a private sug company started a factory at Kurumbur in Pudukon district in 1999. A sample of 100 farmers who entered agreement for contract farming in sugarcane with company was randomly selected for investigation relatto the objectives of the study. A simple tabular analywas carried out to interpret the results.

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#### **RESULTS AND DISCUSSION**

## ors contributing to prefer contract farming in cane

The respondents were asked to indicate the factors in motivated them to enter into sugarcane contract ing. The results are indicated in Table 1. The table y reflects many advantages being obtained in contract ing. These incentives motivated the farmers to become ered sugarcane growers. The tail end region of the ery Mettur Canal in Thanjavur and Pudukottai districts mil Nadu were not getting the regular and adequate supply owing to monsoon failure and poor storage in in dam. In recent years, occurrence of drought and s also significantly affected the agriculture in the delta. profitability of rice based cropping system is fast ning over the years, forcing the farmers to think about ate cropping in the delta region.

## e 1. Factors contributing to prefer contract ing (N = 100)

0	The second s		
vating factors	Number	%	
ail assured price 975/tonne during 2004-05)	85	85.00	
ail institutional credit 4000/acre)	72	72.00	
ail assured market	70	70.00	
a inputs in time	64	64.00	
duce the risk	58	58.00	
a viable technologies	44	44.00	
ail transport facilities	40	40.00	
et effective buy-back	19	19.00	
o for alternate cropping our scarcity area	13	13.00	
t more leisure time ess management work	12	12.00	
inimise labour problems	12	12.00	
we a better standard of living	9	09.00	
in social respect	6	06.00	

Many of the primary agricultural cooperatives eties have become defunct mainly due to management and wrong policy options of the ruling governments. There is no steady market for produces of the farmers. The scarcity of labours and high wages during peak agricultural seasons also forced the farmers to look for crop diversification and alternate cropping. The commitment of the company to buy the crop at the contract price and its ability to ward off the competitors due to its size and scale of operations were the factors that contributed to the continued good relation between the company and the farmers.

#### Performance of sugarcane contract farming

Contract farming performance refers to the efficiency with reference to farming, extension, market, economic and social benefits by comparing with the standards already set. The items pertaining to above aspects that could possibly represent the performance were presented to respondents and their responses were recorded as more satisfied, satisfied and least satisfied in a three-point continuum. The scores of 3, 2 and 1 were assigned accordingly.

Table	2.	Distribution	of	respondents	according to
perfor	ma	nce of contra	ct f	farming	(N = 100)

Items	Mean score	Rank
Farming dimension		
Minimum production risk	2.78	I
Assured income	2.63	II
Increased farm mechanisation	2.30	III
Assured production	2.27	IV
Learning new skills	1.87	V
Less water requirement comparing to paddy	1.55	VI
Overall mean score	2.23	
Extension dimension		
Timely availability of quality inputs	2.85	Ι
Regular technical guidance	2.69	II
Awareness about appropriate technology	2.65	III
Motivation by field officers	2.05	IV
Overall mean score	2.56	
Market dimension		
Assured price and ready market	2.78	Ι
Reduction in price risk	2.51	II

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Overall mean score	2.64	
Economic dimension		
Reliable income	2.73	I
Adequate financial support	2.71	II
Elimination of middlemen	2.69	III
Immediate settlement of money	2.30	IV
Better standard of living	2.27	v
Getting transport arrangement	1.78	VI
Possibility for credit diversion to meet other expenses	1.63	VII
Less labour requirement compared to other crops	1.55	VIII
Overall mean score	2.21	
Social dimension		
Increased employment at village level	2.69	I
Coordination among farmers	2.46	II
Social recognition	2.00	III
More progressiveness	1.78	IV
More awareness about legal aspects	1.63	v
Awareness to adopt eco-friendly technologies	1.42	VI
Availability of more leisure time	1.27	VII
Overall mean score	1.89	

The data reported in Table 2 reveal that farmers were highly satisfied with respect to reduced production risk, assured returns, timely availability of critical inputs such as sugarcane setts, fertilizers, etc., regular technical guidance, adequate financial assistance from nationalised banks and transport facility for sending the harvested produce under various dimensions. The farmer is freed from market hassles as the company takes delivery of cane at the farm gate. No alternative use and the missing local market ensured that the farmer supplied the produce to the firm. Since the company started its operations only in 1999, it is able to satisfy the farmers' requirements quite well. Many farmers felt that if the present area is further expanded without increasing the crushing capacity at factory level, the performance under various dimensions as listed in the table is likely to decline. Already farmers in this region had a bitter experience of supplying cane to a cooperative sugar

factory situated at Kurunkulam near Thanjavur cultivating cane in some villages. The major attributed by the farmers for the above failure we cutting orders, cutting orders not on priority be extension service, delaying of loan and payment, understanding with banks, split payment, low by the factory (Rs.720/tonne) and poor tie-up transport owners and factory for loading and un the harvested cane. Realising the above cited real BID Parry company planned its activities in sa that better performance of contract farming will higher satisfaction and increased prosperity to Glover and Kusterer (1990) advocated that the of alternative source of income is one of the conditions for the success of contract farming m The farmers get an access to new technology which otherwise might be outside their reach. Th farmers could readily accept the new tech introduced by the company such as soil specific (CO-86032 in sandy and sandy loam, COM-88 and clay loam and COV-92102) in problem soils method of planting, raised bed planting, channel disease control, intercropping and fertilizer applic

## Problems perceived by farmers in contract

The various problems encountered by contract farmers are presented in Table 3. Delay of inputs like setts and fertilizers and delay in financial assistance will deprive the opportunity setts in time and timely carrying out of field Infrequent visit of field staff despite repeated farmers through telephone will demotivate the future agreements. Exploitation of the farmer company would result in breakdown in supplies jet the investments made. Similarly, farmers should tempted by occasional spurt in prices in the open and honour their commitment in the contract whi be beneficial in the long-run.

Farmers also reported that the ground we has gone down from 30 feet in 1999 to 100 feet in number of borewells has increased and loan arranged by the company for making borewell. For opinied that the contract farming is more beneficient farmers as they have resources like sufficient lane capital, vehicle etc. The company is also reported big farmers due to their higher credibility and in capacity.

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hablems		(N = 100)
imporems	Numbe	er %
dministrative problems		
in supply of inputs	14	14.00
adequate field visit	12	12.00
in making contract	8	08.00
ented payment for the produce	7	07.00
nt changes in field staff	3	03.00
nancial problems		
y in arranging financial	30	30.00
cost of cultivation	12	12.00
transport cost	8	08.00
chnological problems		
idence of pest and diseases	63	63.00
mbersome to work in sugar- e field due to physical strain	38	38.00
menace	3	03.00
ply of poor quality inputs	3	03.00
ource problems		
equate irrigation potentiality	32	32.00
ing ground water table	30	30.00
onal labour scarcity	17	17.00
soil fertility	16	16.00
equate electrical supply	12	12.00
equate transport facility	8	08.00
ory related problems		
ng orders not in time	16	16.00
in lifting produce from field	.9	09.00
in unloading the produce	8	08.00
nanagement partial towards ntial farmers	12	03.00

## **Implications of findings**

The study has brought out number of observations which are significant for the Indian agriculture in the coming days as crop diversification is being emphasised by different stakeholders including the Government of India. Contract farming is an answer to imperfections in the market for agricultural commodities. The company is interested in reducing the transaction cost which can be achieved by contracting with small number of large farmers. The small farmers can form informal commodity associations of 25-30 farmers and deal as a group with the company. Despite the best efforts of the farmer if the crop is not meeting the quality standards, it should be made binding on the company to take the responsibility. The government should create an enabling environment for contract farming to thrive by providing proper legal framework, infrastructure facilities like roads, warehousing facilities etc.

Timely supply of inputs and credit help the farmers to grow the crop in season and obtain better yield. Adequate field visit of extension staff is essential to provide timely technical guidance and motivate the farmers to get higher yield. In the world of market driven economy, consumers and suppliers cannot be taken as independent entities as they form an integral part of the supply chain management. If the supply chain is not managed properly, the delivery chain is automatically affected, resulting in customer dissatisfaction and lost business. The alternate cropping and crop diversification schemes should be given adequate focus by government in the Cauvery delta region to enhance the soil fertility and prosperity of farmers. In contract farming, there should be a tripartite agreement between farmers, company and extension wing of the Government which will prevent the exploitation of the farmers and violation of the agreement by the company. An effective legal system is urgently required to solve problems arising out agreements.

## CONCLUSION

Most of the small and marginal farmers in India lack both reliable and cost efficient inputs such as quality seed, fertilizer, working capital, mechanisation services, extension advice and guaranteed and profitable markets for their output. Well-organised contract farming does however provide both backward and forward linkages and would appear to offer an important way in which small producers can do farming in a commercial manner.