Social Impact of Contract Farming On Farmers Practicing Contract Farming

Harish N.

Adarsha PU College, 12th Cross, 1st Block, RT Nagar Bengaluru, Karnataka-560032, India

*Corresponding Author: hariniki14@gmail.com, Mobile-09480196752

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Abstract- This article focused on the social impact of contract farming on respondents who are involved in contract farming. The various social indicators of impact on contract framers are discussed. The study was conducted in two districts of Karnataka state viz., Bangalore Rural and Tumakuru. Two taluks each from each districts, Tumakuru and Gubbi taluks from Tumakuru district and Nelamangala and Doddaballapura taluks from Bangalore Rural district were selected. Total three crops were selected purposively namely Gherkin, Watermelon, Tomato. The respondents were selected based on simple random sampling techniques; the sample size was Gherkin 35, Tomato 35, Watermelon 10 and non contract farmers 20 from each taluks of two districts.

Keywords: Contract Farming, Social Impact, Economic Impact, Health Care, etc.

I. INTRODUCTION

The scenario of agriculture in India is changing. Farmers are keen in transforming from traditional approach of farming to market-led approach. Farmers are now looking for the means and ways to shift from subsistence agriculture to market oriented production. In this context, contract farming provides a unique opportunity to diversify their production. With minimum risk, it motivates the farmers to take up a new venture. There is an unprecedented interest shown by all the stake holders of contract farming. After opening up of the Indian economy and entry of many domestic and multinational players into agribusiness sector, contract farming which was restricted now became the dominant and growing node of raw material production and procurement coordination among the processors and fresh produce marketers and exporters. In this regard a study has been taken up to know the social impact of contract farming on practicing farmers.

II. CONTRACT FARMING

Contract farming can be defined as "agreement between farmers and processing or marketing companies for the production and supply of farming produces under a forward agreement, generally at predetermined prices".

The intensity of the written agreement arrangement varies in keeping with the depth and quality of the provisions in every of the subsequent three areas.

- *Provision of Market:* The maker and buyer agree to terms and conditions for the future arrangement and purchase of a yield or domesticated animals thing;
- *Provision of Resource:* related to the promoting courses of action the purchaser consents to supply chosen inputs, including on events arrive planning and specialized exhortation;
- Specification of Management: The cultivator consents to pursue suggested creation strategies, inputs administrations and development and collecting determinations.

III. METHODOLOGY

Two taluks each from each districts, Tumakuru and Gubbi taluks from Tumakuru district and Nelamangala and Doddaballapura taluks from Bangalore Rural district were selected. Total three crops were selected purposively namely Gherkin, Watermelon, Tomato. The respondents were selected based on simple random sampling techniques; the sample size was Gherkin 35, Tomato 35, Watermelon 10 and non contract farmers 20 from each taluks of two districts.

IV. RESULT AND DISCUSSION

Health Care

In the impact of contract farmers, health care expenditure impact is one of the most vital expenditure in contract farming.

Table: 1 Health Care Expenditure of Respondents (Average Amount Rs. per Person in per family)

	Before	After	Test Statistics			
Particulars	Delore	Alter	Paired Sample t test	df	p value	
Tumakuru	6,289.680	9,607.710	-9.699	159	.000	
Bangalore Rural	6,104.310	9,169.210	-8.488	159	.000	
Grand Mean	6,196.990	9388.460	-12.847	319	.000	

Source: Primary Data (Field Survey)

The data depicted in Table 1 indicates that, the average health care expenditure per family of respondents in Tumakuru district before contract farming was 6,289.680 and after contract farming was 9,607.710. The p .000 value obtained by Paired Sample 't' statistics test result indicates that, the average health care expenditure per family before and after joining contract farming in Tumkur district differs significantly. The average health care expenditure per family of respondents in Bangalore rural district before contract farming is 6,104.310 and after contract farming was 9,169.210. The p .000 value obtained by Paired Sample 't' statistics test result indicates that, the average health care expenditure per family before and after joining contract farming in Bangalore rural differs significantly.

The p .000 value obtained by paired Sample 't' statistics test result indicates that, the average health care expenditure per family before and after joining contract farming both the district differs significantly. Thus, there is a significant difference in health care expenditure by the farmer before and after contract farming, but this due to other factors like change in life style and increase income etc.

Hygienic facilities

The hygienic maintained in living places of respondents are discussed. This hygienic facility is very important to lead a better life and it improves the health of respondents and reduces health diseases.

Table: 2 Hygienic Facilities of Respondents

	Particulars		Before				After			
Indicator		Y	Yes		No		Yes		No	
		No.	%	No.	%	No.	%	No.	%	
Drainage	Tumakuru	123	76.88	37	23.13	160	100.00	0	0.00	
facilities	Bangalore Rural	41	25.63	119	74.38	160	100.00	0	0.00	
Toilet	Tumakuru	107	66.88	53	33.13	160	100.00	0	0.00	
facilities	Bangalore Rural	70	43.75	90	56.25	160	100.00	0	0.00	
waste	Tumakuru	112	70.00	48	30.00	160	100.00	0	0.00	
Disposal	Bangalore Rural	44	27.50	116	72.50	160	100.00	0	0.00	

Source: Primary Data (Field Survey)

It could be observed from the table 2 that the, drainage facilities adopted in Tumakuru district before contract farming is 76.88 per cent and 23.13 per cent of respondents were not adopted. After contract farming 100.00 per cent of respondents has adopted drainage facility. It indicates that, after contract farming in the Tumakuru district drainage facilities are improved. It is in Bangalore rural district 25.63 per cent of respondents adopted and 74.38 per cent of respondents had not adopted. After contract farming 100.00 per cent of respondents has adopted drainage facility in the district. It indicates that, after contract farming in the Bangalore rural drainage facilities are improved. The drainage facility has improved tremendously after contract farming due to the programs of government.

A curious look at table 2 indicates that, in Tumakuru district the toilet facilities available before contract farming is 66.88 per cent of respondents and 33.13 per cent of respondents had not adopted it. After contract farming 100.00 per cent of respondents were adopted toilet facilities. It indicates that, after contract farming in the Tumakuru district toilet facilities improved. In Bangalore rural district 43.75 per cent of respondents adopted and 56.25 per cent of respondents had not adopted toilet

facilities. After contract farming 100.00 per cent of respondents has adopted toilet facility in this district. It indicates that, after contract farming in the Bangalore rural toilet facilities are improved. Toilet facility during contract farming period has improved due to various programmes adopted by central and state governments.

Table 2 indicates that, waste disposal waste facilities in Tumakuru district before contract farming was 70.00 per cent and 30.00 per cent of respondents had not adopted it. After contract farming 100.00 per cent of respondents has adopted waste disposal facility. It indicates that, after contract farming in the Tumakuru district waste disposal facilities are improved. In Bangalore Rural district 27.50 per cent of respondents adopted and 72.50 per cent of respondents were not adopted. After contract farming 100.00 per cent of respondents had adopted waste disposal facility in district. It indicates that, after contract farming in the Bangalore rural Disposal waste facilities are improved. Waste disposable facility has improved drastically in the district after contract farming due to other factors.

Public Recognition

The public recognition includes indicators such as, participation in public function, participation in programme as a guest, contacted by fellow farmers for advice, Invited for all the programmes in village and got any award. This can be measured through the parentage of opinion of respondents and indicated in Table-3.

Table: 3 Public Recognition

		Before				After				
Indicator		Ne	Never		Total		Occasional		Total	
	Particulars	No.	%	No.	%	No.	%	No.	%	
Participation	Tumakuru	156	97.50	156	97.50	157	98.13	157	98.13	
in public function	Bangalore Rural	159	99.38	159	99.38	157	98.13	157	98.13	
Participation	Tumakuru	157	98.13	157	98.13	22	13.75	22	13.75	
in programme as a guest	Bangalore Rural	157	98.13	157	98.13	20	12.50	20	12.50	
Contacted by	Tumakuru	157	98.13	157	98.13	156	97.50	156	97.50	
fellow farmers for advice	Bangalore Rural	157	98.13	157	98.13	157	98.13	157	98.13	
Invited for	Tumakuru	140	87.50	140	87.50	140	87.5	140	87.50	
all the programmes in village	Bangalore Rural	148	92.50	148	92.50	148	92.50	148	92.50	
Got any	Tumakuru	146	91.25	146	91.25	20	12.50	20	12.50	
award	Bangalore Rural	152	95.00	152	95.00	18	11.25	18	11.25	

Source: Primary Data (Field Survey)

A glance at Table 3 indicates that majority of the respondents are participation in public function before contract farming practice in Tuamkuru district is 97.50 per cent never participated and 98.13 per cent of respondents are occasionally participated. In Bangalore Rural district participation in public function before contract farming 99.38 per cent never participated and after contract farming 98.13 per cent occasionally participated. Thus there is an improvement in participation in public function after contract farming.

Majority of the respondents are participation in programme as a guest before contract farming practice in Tuamkuru district is 98.13 per cent never participated and 13.75 per cent of respondents are occasionally participated. It was same in the Bangalore Rural district. Most of the respondents contacted by fellow farmers for advice in Tumakuru district is 98.13 per cent never participated and 12.50 per cent after contract farming occasionally participated. In Bangalore Rural district it was 98.13 before contract farming never participated and same percentage after contract farming occasionally participated. Thus, the participation of guest in programmes and taking advice are improved after contract farming.

Almost of the respondents invited for all the programmes in village in Tumkuru district is 87.50 per cent never invited and same percentage contract farming regularly invited. In Bangalore Rural district it was 92.50 per cent before contract farming never invited and 92.50 per cent occasionally invited. The best part (91.25 per cent) of the respondents never got any award

before contract farming and (12.50 per cent) occasionally got award after contract farming in Tumakuru district. In Bangalore Rural district (95.00 per cent) the respondents never got any award before contract farming and (11.25 per cent) occasionally got award after contract farming. Most of the farmers are invited for program in village and some of them have got award after contract farming.

Material Possession

Table: 4 Immovable Material Possession

		Before	A ftom	Test Statistics			
Indicator	Particulars	Before	After	Paired Sample t test	df	p value	
No. of Radio	Tumkur	.31	.69	-2.333	34	.026	
	Bangalore Rural	.12	.76	-7.181	58	.000	
	Grand Mean	.19	.73	-6.586	93	.000	
	Tumkur	628.57	1,714.29	-2.973	34	.005	
Cost of Radio	Bangalore Rural	406.78	1,525.42	-4.822	58	.000	
	Grand Mean	489.36	1,595.74	-5.586	93	.000	
No. of	Tumkur	.03	1.00	-67.971	154	.000	
Television	Bangalore Rural	.03	1.00	-67.523	153	.000	
Television	Grand Mean	.03	1.00	-95.965	308	.000	
Cost of	Tumkur	432.26	19,451.61	-80.125	154	.000	
Cost of Television	Bangalore Rural	451.30	22,889.61	-65.924	153	.000	
Television	Grand Mean	441.75	21,165.05	-90.616	308	.000	
No. of	Tumkur	.17	.83	-2.000	5	.102	
	Bangalore Rural	.25	.75	-1.00	3	.391	
Refrigerator	Grand Mean	.11	.89	-3.500	8	.008	
Cost of	Tumkur	3,333.33	15,166.67	-1.846	5	.124	
Refrigerator	Bangalore Rural	3,750.00	11,250.25	-1.00	3	.391	
Kenngerator	Grand Mean	2,222.22	15,111.11	-3.090	8	.015	
No of Washing	Tumkur	.17	.83	-2.000	5	.102	
No. of Washing machine	Bangalore Rural	.20	.80	-2.250	9	.051	
	Grand Mean	.19	.81	-3.101	15	.007	
Cost of	Tumkur	2,500.00	15,166.67	-2.269	5	.073	
Washing	Bangalore Rural	3,400.00	13,800.00	-2.250	9	.051	
machine	Grand Mean	3,062.50	14,312.50	-3.249	15	.005	

Source: Primary Data (Field Survey)

The data depicted in Table 4 indicates that, the average number of radio of respondents in Tumakuru district before contract farming is .31 and after contract farming is .69. The p .026 value obtained by Paired Sample 't' statistics test indicates that, the average number of radio before and after joining contract farming in Tumkur district differs significantly. The average number of Radio of respondents in Bangalore Rural district before contract farming is .12 and after contract farming is .76. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average number of radio before and after joining contract farming in Bangalore Rural district differs significantly.

Table 4 indicates that, the average cost of Radio of respondents in Tumakuru district before contract farming is 628.57 and after contract farming is 1,714.29. The p .005 value obtained by Paired Sample 't' statistics test indicates that, the average cost of radio before and after joining contract farming in Tumkur district does not differs significantly. The average number of Radio of respondents in Bangalore Rural district before contract farming is 406.78 and after contract farming is 1,525.42. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average cost of radio before and after joining contract farming in Bangalore Rural district differs significantly.

It was evident from the Table 4 indicates that, the average number of television in Tumakuru district before contract farming is .03 and after contract farming is 1.00. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average number of television before and after joining contract farming in Tumkur district differs significantly. The average number of television in Bangalore Rural district before contract is .03 and after contract farming is 1.00. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average number of television before and after joining contract farming in Bangalore Rural district differs significantly.

A close look into the data in Table 4 reveals that, the average cost of television in Tumakuru district before contract farming is 432.26 and after contract farming is 19451.61. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average cost of television before and after joining contract farming in Tumkur district differs significantly. The average cost of television in Bangalore Rural district before contract is 451.30 and after contract farming is 22889.61. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average cost of television before and after joining contract farming in Bangalore Rural district differs significantly.

The result represented in Table 4 the average number of refrigerator in Tumakuru district before contract farming is .17 and after contract farming is .83. The p .102 value obtained by Paired Sample 't' statistics test indicates that, the average number of refrigerator before and after joining contract farming in Tumkur district do not differs significantly. The average number of refrigerator in Bangalore Rural district before contract is .05 and after contract farming is .75. The p .391 value obtained by Paired Sample 't' statistics test indicates that, the average number of refrigerator before and after joining contract farming in Bangalore Rural district do not differs significantly.

The data depicted in Table 4 indicates that, the average cost of refrigerator in Tumakuru district before contract farming is 3,333.33 and after contract farming is 15,166.67. The p .124 value obtained by Paired Sample 't' statistics test indicates that, the average cost of refrigerator before and after joining contract farming in Tumkur district differs significantly. The average cost of refrigerator in Bangalore Rural district before contract is 3,750.00 and after contract farming is 11,250.25. The p .391 value obtained by Paired Sample 't' statistics test indicates that, the average cost of refrigerator before and after joining contract farming in Bangalore Rural district differs significantly.

The average number of washing machine in Tumakuru district before contract farming is .17 and after contract farming is .83. The p .102 value obtained by Paired Sample 't' statistics test indicates that, the average number of washing machine before and after joining contract farming in Tumkur district differs significantly. The average number of washing machine in Bangalore Rural district before contract is .20 and after contract farming is .80. The p .051 value obtained by Paired Sample 't' statistics test indicates that, the average number of washing machine before and after joining contract farming in Bangalore Rural district differs significantly.

The average cost of washing machine in Tumakuru district before contract farming is 2,500.00 and after contract farming is 15,166.67. The p .073 value obtained by Paired Sample 't' statistics test indicates that, the average cost of washing machine before and after joining contract farming in Tumkur district differs significantly. The average cost of washing machine in Bangalore Rural district before contract is 3,400.00 and after contract farming is 13,800.00. The p .051 value obtained by Paired Sample 't' statistics test indicates that, the average cost of washing machine before and after joining contract farming in Bangalore Rural district differs significantly.

Table: 5 Movable Material Possession

		Dafana	A 64 a	Test Statistics			
Indicator	Particulars	Before	After	Paired Sample t test	df	p value	
No. of Bicycle	Tumkur	.62	.38	2.419	94	.017	
	Bangalore Rural	.30	.70	-5.345	114	.000	
	Grand Mean	.43	.58	-2.345	239	.020	
	Tumkur	3336.87	2494.74	1.393	94	.167	
Cost of Bicycle	Bangalore Rural	1873.91	3882.61	-3.831	114	.000	
	Grand Mean	2535.71	3254.76	-1.764	209	.079	
N. C.M.	Tumkur	.03	.97	-15.000	31	.000	
No. of Motor cycle	Bangalore Rural	.02	.98	-20.500	42	.000	
	Grand Mean	.01	.99	-36.000	73	.000	
Cost of Motor cycle	Tumkur	1093.75	49062.50	-17.752	31	.000	
	Bangalore Rural	1162.79	52209.30	-20.799	42	.000	
	Grand Mean	676.68	51554.05	-35.626	73	.000	
No. of Car	Tumkur	.08	.92	-5.500	12	.000	
	Bangalore Rural	.03	.97	-15.500	32	.000	
	Grand Mean	.02	.98	-21.500	44	.000	
Cost of Car	Tumkur	38461.54	530769.23	-5.905	12	.000	
	Bangalore Rural	15625.00	540156.25	-15.227	31	.000	
	Grand Mean	113663.64	549659.09	-21.225	43	.000	

Source: Primary Data (Field Survey)

The data depicted in Table 5 indicates that, the p .017 value obtained by Paired Sample 't' statistics test indicates that, the average number of bicycle before and after joining contract farming in Tumkur district differs significantly. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average number of bicycle before and after joining contract farming in Bangalore Rural district differs significantly.

The average cost of bicycle in Tumakuru district before contract farming is 3336.8 and after contract farming is 2494.74. The p .167 value obtained by Paired Sample 't' statistics test indicates that, the average cost of bicycle before and after joining contract farming in Tumkur district does not differs significantly. The average cost of bicycle in Bangalore Rural district before contract is 1873.91 and after contract farming is 3882.61. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average cost of bicycle before and after joining contract farming in Bangalore Rural district differs significantly.

The average number of motorcycle in Tumakuru district before contract farming is .03 and after contract farming is .97. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average number of motorcycle before and after joining contract farming in Tumkur district differs significantly. The average number of motorcycle in Bangalore Rural district before contract is .02 and after contract farming is .98. The p .000 value obtained by Paired Sample 't' statistics test indicates that, average number of motorcycle before and after joining contract farming in Bangalore Rural district differs significantly.

The average cost of motorcycle in Tumakuru district before contract farming is 1093.75 and after contract farming is 49062.50. The p .000 value obtained by Paired Sample 't' statistics test indicates that, the average cost of motorcycle before and after joining contract farming in Tumkur district differs significantly. The average cost of motorcycle in Bangalore Rural district before contract is 1162.79 and after contract farming is 52209.30. The p .000 value obtained by Paired Sample 't' statistics test indicates that, average cost of motorcycle before and after joining contract farming in Bangalore Rural district differs significantly.

The average number of car in Tumakuru district before contract farming is .08 and after contract farming is .92. The p .000 value obtained by Paired Sample 't' statistics test indicates that, average number of car before and after joining contract farming in Tumkur district differs significantly. The average number of car in Bangalore Rural district before contract is .03 and after contract farming is .97. The p .000 value obtained by Paired Sample 't' statistics test indicates that, average number of car before and after joining contract farming in Bangalore Rural district differs significantly.

The average cost of car in Tumakuru district before contract farming is 38,461.54 and after contract farming is 5,30,769.23. The p .000 value obtained by Paired Sample 't' statistics test indicates that, average cost of car before and after joining contract farming in Tumkur district differs significantly. The average cost of car in Bangalore Rural district before contract is 15,625.00 and after contract farming is 5,40,156.25. The p .000 value obtained by Paired Sample 't' statistics test indicates that, average cost of car before and after joining contract farming in Bangalore Rural district differs significantly.

V. CONCLUSION

There is an improvement in participation in public function after involvement of contract farming. Possession of draft animals, power tiller and tractor after contract farming has improved drastically due to change in technology. The material possession of movable and immovable has increased after contract farming. Extension contact and participation also increased after joining contract farming of respondents.

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AUTHORS PROFILE

Dr.Harish.N, pursued M.A in Economics from Kuvempu University, Ph.D from Tumkur University and Cleared KSET from University of Mysore. He is currently working as Lecturer in Economics Adarsha PU College, R.T.Nagar, Bengaluru since 2012. He is a member of more than 20 research organizations, editor and reviewer for more than 10 national and international journals. He was presented 18 papers in international conference and 30 papers in national conference. His biographical note published in Asian American Who's Who Book 8th Volume, published by Rifacimento International New Delhi. He was published more than 40 research papers in reputed international journals, 4 chapters in edited book, 8 papers in conference proceedings. He has got Doctor of Letters (D.Litt) Honorary Doctorate from University of South America. He has 11 years teaching experience and 8 years research experience.

