

ISSN: 2249-7137

Vol. 11, Issue 9, September 2021

Impact Factor: SJIF 2021 = 7.492



ACADEMICIA An International **Multidisciplinary Research** Journal



(Double Blind Refereed & Peer Reviewed Journal)

DOI: 10.5958/2249-7137.2021.01958.3

ECONOMIC IMPACT OF KISAN CREDIT CARD SCHEME ON PROFITABILITY OF CROPS IN DEORIA DISTRICT OF UTTAR **PRADESH**

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ABSTRACT

The study was confined to the Deoria district of eastern Uttar Pradesh. The district was selected purposively. 60 farmers were selected by simple random sampling method. The present investigation is a comparative study between KCC holders and non-KCC holders. Therefore, two types of respondents were required 30 KCC and 30 non- KCC holders. The KCC holders were those who were benefited under the scheme during the period of 2019-2020. The overall cost of sugarcane was worked out to be Rs 114762.58 in KCC holders which were high compared to non- KCC holders Rs.107979.88. Gross income per hectare was Rs.225812.10 in KCC holders more compared to Rs. 200904.60 in non- KCC holders per hectare. Net income was Rs.111049.52 in KCC holders more compared to Rs. 92924.72 in non KCC holders per hectare. The overall cost of paddy was worked out to be Rs 57287.10 in the KCC holders which was highest compared to non- KCC holders Rs.53729.90. Gross income per hectare was Rs.117784.16 in KCC holders and Rs. 104580.09 in non KCC holders per hectare. Net income



was Rs.52028.23 in KCC holders and Rs.42741.66 in non- KCC holders per hectare. The overall cost of wheat was worked out to be Rs 53850.21 which was high compared to non- KCC holders Rs.51720.97. Gross income per hectare was Rs.82920.79 in KCC holders more compared to Rs.77409.10 in non- KCC holders per hectare.Net income was Rs.29070.58 in KCC holders more compared to Rs. 25688.13 in non KCC holders per hectare. Impact of the KCC scheme on production, productivity and income increased under all the categories after availing credit under KCC scheme. It can also be seen that productivity of the sugarcane, paddy and wheat crop was found increased with increase in farm size.

KEYWORDS: Kisan Credit Card, KCC Holders, Non-KCC Holders, Cost Of Production, Cost Concepts, Farm Income Measures

INTRODUCTION

To sustain the growth in agriculture, credit plays a vital role and also key factor in agriculture development. Agriculture development and growth are possible only if adequate capital and proper technology are used. The change in the technology of agriculture enhanced the need for credit. Credit also acts as a catalyst, to move the farmers from traditional agriculture to modem agriculture. Kishan Credit Card (KCC) is one the many innovative products designed by NABARD with an objective to enable farmers to meet their credit requirements, preferably production credit .from financial institutions in a timely an hassle - free manner. The KCC scheme which was introduced in14th August 1998, has gone through several changes since then and now incorporates many new features over and above the financing of crop production requirements viz. consumption, expenditure, maintenance of farm assets term loan for agriculture and allied activities ,coverage of KCC holders under Personal Accident Insurance Scheme(PAIS) and very recently the coverage of KCC holders under Atal Pension Yojana .Today KCC is considered to be one of the most convenient banking products for farmers Government of India introduced the KCC scheme in 1998 as an innovative credit delivery mechanism to enable the farmers to meet their production credit requirements in a timely and hassel-free manner.

The state government has given special emphasis in Agriculture Policy on availability of crop loan through Kisan Credit Card to all eligible farmers of the state in view of ensuring easy availability of farm inputs and increasing utilization of crop loan in it. Government of India has accepted the recommendations of task force organized by Government of India, Ministry of Finance, Department of Finance Services to review the scheme of Kisan Credit Card and convert it into smart card cum debit card.

Objectives of Kisan Credit Card (KCC) scheme; to provide adequate and timely credit to farmers, to meet short term production needs for the cultivation of crops for the entire year, to augment flow of credit to farmers, especially small, medium, tenant farmers, oral lessees, share croppers/individuals taking up farm activities, to build mutual trust and confidence between bank and target group. to provide food security to vulnerable section by enhancing agricultural production, productivity and livelihood promotion through joint liability group mechanism, to meet contingency expenditure for ancillary expenses as medical, education and other needs.



Salient features of the Kisan Credit Card (KCC) Scheme; eligible farmers to be provided with a Kisan Credit Card and a pass book or card-cum pass book.Revolving cash credit facility involving any number of drawals and repayments within the limit. Limit to be fixed on the basis of operational land holding, cropping pattern and scale of finance. Entire production credit needs for full year plus ancillary activities related to crop production to be considered while fixing limit. Sub-limits to cover short term, medium term as well as term credit are fixed at the discretion of banks. Card valid for 3 to 5 years subject to annual review. As incentive for good performance, credit limits could be enhanced to take care of increase in costs, change in cropping pattern, etc. Each drawal to be repaid within a maximum period of 12 months Conversion/ reschedulement of loans also permissible in case of damage to crops due to natural calamities, Security, margin, rate of interest etc. as per RBI norms. Operations may be through issuing branch (and also PACS in the case of Cooperative Banks) through other designated branches at the discretion of bank, Withdrawals through slips/cheques accompanied by card and passbook.

Revision in Kisan Credit Card Scheme, Recommendations of Working Group constituted by Government of india, under the Chairmanship of Shri T M Bhasin, Chairman & Managing Director, Indian Bank on redesigning of KCC scheme to make it Smart Card-cum-Debit Card were accepted and a revised KCC scheme has been introduced in April 2012.

The salient features of the revised KCC scheme are as under; assessment of crop loan component based on the scale of finance for the crop plus insurance premium x Extent of area cultivated + 10% of the limit towards post-harvest / household/consumption requirements + 20% of limit towards maintenance expenses of farm assets. Validity period of KCC and its periodic review may be decided by the bank. Margin may be decided by the bank. The repayment period may be fixed by banks as per the anticipated harvesting and• maturity period for the crops for which a loan has been granted. Interest subvention /incentive for prompt repayment to be available as per the Government of India and State Government norms. One time documentation at the time of first availment and thereafter simple declaration (about crops raised/ proposed) by farmer. KCC cum SB account instead of farmers having two separate accounts. The credit balance in KCC cum SB accounts to be allowed to fetch interest at saving bank rate. Disbursement through various delivery channels, including ICT driven channels like ATM/ PoS/ Mobile handsets.

`NABARD, in January 2013 set up special project unit – Kisan Credit Card (SPUKCC) with a mandate for encouraging co-operative banks and Regional Rural Banks across the country to issue RuPay KCC debit cards. The core objective of the unit is to facilitate issuance of cards by these banks through guidance, coordination with national payment corporation with national payment corporation of India and interaction with sponsor banks of RRBS and Co-operative banks. The overall goal is to develop cashless ecosystem by enabling the community to avail all new banking facilities at par with urban area of the country. The SPU undertakes policy formulations, capacity building and networking with the various stake holders to achieve above objectives. The new KCC guidelines specify that all KCC customers should have the facility of withdrawal through ATM/Debit cards. NABARD, with a view to facilitate early action in this direction, as already floated schemes providing financial support to RRBS and cooperatives for issuing these cards.



The cost of cultivation was more for KCC holders when compare to control farmers i.e. Non-KCC farmers. The cost of cultivation per acre was higher by 8.2 per cent for paddy KCC farmers then Non-KCC farmers. The cost of cultivation was higher for KCC farmers on account of comparatively higher doses of application of inputs resulting in higher yield by KCC farmers as compared to the Non- KCC farmers under paddy crop (Parta and Sahu, 2011). The average cost of cultivation is more in case of KCC holders (Rs. 65886.27 /ha) compare to non KCC holders (Rs. 65184.43 /ha) and net returns obtained by KCC holders is more (Rs. 121483.36 /ha) as against non KCC holders (Rs. 119606.91 /ha) for sugarcane Sajane et al., 2011). The cost of cultivation for paddy was Rs 11100 to 14500 for KCC farmers and Rs 10500 to 13000 was for non KCC holders. The cost of cultivation per acre was higher by 7.6 per cent for paddy. The cost of cultivation was higher for KCC holders compare to non-KCC holders under paddy cultivation Olekar, 2012). The KCC beneficiaries incurred higher cost in cultivation of paddy by 14.21 per cent 19.89 per cent 11.10 per cent and 12.22 per cent in case of marginal, small medium and large farms, respectively when compare to Non-KCC beneficiaries Patel, 2012). The cost of cultivation of KCC holders farmers was higher (Rs. 31225.9 /ha) as compared to Non-KCC holders (Rs. 27611.8 /ha) and net returns obtained by KCC farmers is more (Rs. 3649.2 /ha) as against the Non-KCC farmers (Rs. 2565.5 /ha) Prakash, 2013). The cost of cultivation of banana for KCC holder farmers was higher (Rs. 132516) as compared to Non-KCC holder farmers (Rs.117774). It was due to application of higher amount of purchased inputs facilitated by the borrowed money and gross returns per hectare for banana crop were also higher for KCC holder when compared to Non-KCC holders Bhangale and Sarodae, 2015).

MATERIAL AND METHODS

The study was confined in eastern Uttar Pradesh which comprises five divisions Viz. Varanasi, Gorakhpur, Azamgarh, Mirzapur and Basti. Gorakhpur division consists of four districts namely -Gorakhpur, Deoria, Kushinagar and Maharajganj. Deoria district was selected purposively. A list of all 16 blocks was prepared on the basis of KCC holder's area. One block namely Baitalpur block was purposively selected for the study. There are 91 villages in Baitalpur block. 3 villages were selected on the basis of the important crops grown in the study area under Wheat, Rice and Sugarcane cultivation. The present investigation is a comparative study between KCC holders and non-KCC holders. Therefore, two types of respondents were required.30 KCC and 30 non-KCC. In study area selection of respondents is done by random sampling method .Each village farmers are divided in four categories according to their land holding i.e. marginal, small, medium and large farmers. In each village 20 farmers (10 KCC and 10 non-KCC) will be identified for the field study therefore total sample size 60 (30 KCC and 30 non- KCC) from selected village The KCC farmers were those who were benefited under the scheme during the period of 2019-120 considered for the investigation .Prior to actual selection of targeted respondents, a comprehensive list of KCC respondents and non-KCC respondents was prepared. The farm level data and required information of KCC holders and non-KCC holders pertaining to crop year 2019-2020, was during March-April. The collected data were compiled and analyzed with a tabular method of analysis, simple statistical tools such as arithmetical averages and percentages were worked out for the purpose of interpretation of results. To work out the cost of cultivation standard method of cost cultivation employed by Commission for Agricultural Costs and Prices (CACP), directorate of economics and statistics, government of India was adopted.



Cost concepts as per the CACP classification

The cost concepts approach to farm casting is widely used in India. To work out the cost of cultivation standard method of cost cultivation employed by commission for agricultural costs and prices (CACP), directorate of economics and statistics, government of India was adopted. These include Cost A₁, Cost A₂, Cost B₁ Cost B₂ Cost C₁, Cost C₂, and CostC₃. Various costs have been worked out by applying following method:

Cost A_1 : all actual expenses in cash and kind incurred in production.Cost A_1 : consists of following 14 costs items:

- 1. Value of hired human labour (permanent & casual).
- **2.** Value of owned bullock labour.
- **3.** Value of hired bullock labour.
- 4. Value of owned machine labour.
- 5. Hired machinery charges
- 6. Value of fertilizers.
- 7. Value of manure (produced farm and purchased).
- **8.** Value of seed (both farm- produced and purchased).
- 9. Value of insecticides, pesticides and fungicides.
- 10., irrigation charges (both owned and hired tube wells pumping sets etc.).
- **11.** Canal water charges.
- **12.** Land revenue, cesses and other taxes.
- **13.** Depreciation on farm implements and machinery (both bullock drawn & worked with human labour, farm building and farm machinery).
- 14., interest on the working capital..
- **Cost A₂:** Cost A_1 + Actual rent paid for leased in land
- **Cost B1**: Cost A1+ Interest on value of owned fixed capital assets (excluding land)
- **Cost B₂:** Cost B₁ + rental value of owned land
- **Cost C1**: Cost B1+ imputed value of family labour
- **Cost C₂:** Cost B₂ + imputed value of family labour
- **Cost C₃**: Cost C₂+ 10 percent of cost C₂ to account for managerial function perform by farmer.

Farm income measures

Under farm income, gross income, net income, were worked out:

Gross income: gross income pertains to the total value of the potato production during the year valued at the average prices of the year.



Net income: Net income was worked out on by deducting cost C₂ gross income.

Benefit-cost ratio (**BCR**): Benefit – cost ratio is obtained by ratio of total gross return to the total cost

RESULT AND DISCUSSION

Per hectare cost and returns of sugarcane production

The Table1.shows that the overall cost incurred by the KCC beneficiaries was worked out to be Rs 114762.58 which was high compared to non KCC beneficiaries Rs.107979.88. out of total cost that overall operational cost of KCC beneficiaries was Rs.71148.81 and non KCC beneficiaries was Rs. 72549.01. The fixed cost of KCC and non KCC was Rs. 36248.40 and Rs.35430.87 respectively. Total cost per hectare was higher in KCC farmers compared to non KCC farmers. This difference was mainly due to higher cost of variable input used in KCC farmers compared to non KCC farmers. Gross income obtained per hectare was more in KCC beneficiaries. It was Rs.225812.10 in KCC beneficiaries and Rs. 200904.60 in non KCC beneficiaries per hectare. But net income was more in KCC beneficiaries compared to non KCC beneficiaries. It was Rs.111049.52 in KCC beneficiaries and Rs. 92924.72 in non KCC beneficiaries per hectare. This was due to the comparatively lower expenditure on sugarcane production of non KCC beneficiaries. From Table 2. It is clear that the Cost A1 and cost A2 were found to be same as there was no land was taken on lease. Cost B_1 cost B_2 Cost C_1 and C_2 was more of KCC farmers than the non KCC farmers. From Table 3. shows that the total output of sugarcane under the KCC was 707.34 g/ha was higher than non KCC farmers 628.84 g/ha. The returns of KCC farmers are somewhat more than the non KCC farmers.

Per hectare cost and returns of paddy production

The Table 4. indicates that the overall cost incurred by the KCC beneficiaries was worked out to be Rs 57287.10 which was highest compared to non KCC beneficiaries Rs.53729.90. Out of total cost that overall operational cost of KCC beneficiaries was Rs.38522.90 and non KCC beneficiaries was Rs. 35099.01.The fixed cost of KCC and non KCC was Rs. 18764.15 and Rs.18630.82 respectively. Total cost per hectare was higher in KCC farmers compared to non KCC farmers. This difference was mainly due to higher cost of variable input used in KCC farmers compared to non KCC farmers. *From Table 5*. It is clear that the Cost A₁ and cost A₂ were found to be same as there was no land was taken on lease. Cost B₁, cost B₂, cost C₁ and C₂ was more of KCC farmers than the non KCC farmers. The perusal of Table 6. It is clear that the total output of paddy under the KCC was 61.34q/ha was higher than non KCC farmers 56.08 q/ha. The returns of KCC farmers are somewhat more than the non KCC farmers. Gross income obtained per hectare was more in KCC beneficiaries. It was Rs.117784.16 in KCC beneficiaries and Rs.104580.09 in non KCC beneficiaries. It was Rs.52028.23 in KCC beneficiaries and Rs.42741.66 in non KCC beneficiaries per hectare.

Per hectare cost and returns of wheat production

The table 7.shows that the overall cost incurred by the KCC beneficiaries was worked out to be Rs 53850.21 which was high compared to non KCC beneficiaries Rs.51720.97. Out of total cost that overall operational cost of KCC beneficiaries was Rs.35939.28 and non KCC beneficiaries



was Rs.33763.02.The fixed cost of KCC and non KCC was Rs. 17910.93 and Rs.17957.97 respectively. Total cost per hectare was higher in KCC farmers compared to non KCC farmers. This difference was mainly due to higher cost of variable input used in KCC farmers compared to non KCC farmers. From the Table 8.Shows that the Cost A₁ and cost A₂ were found to be same as there was no land was taken on lease. Cost B₁, cost B₂, cost C₁ and C₂ was more of KCC farmers than the non KCC farmers. The Table 9.shows that the total output of wheat under the KCC was 41.37q/ha was higher than non KCC farmer. Gross income obtained per hectare was more in KCC beneficiaries. It was Rs.82920.79 in KCC beneficiaries and Rs.77409.10 in non KCC beneficiaries. It was Rs.29070.58 in KCC beneficiaries and Rs. 25688.13 in non KCC beneficiaries per hectare.

SI.	Cost	KCC h	olders				Non KCC holders					
No.	Items	Margi	Smal	Medi	Larg	Overall	Marg	Small	Mediu	Large	Over	
		nal	1	um	e		inal		m		all	
	Operation	nal cost										
1.	Human	24508.	23024.	23854	23790	23794	23808	23024	22456.	22930.	23054	
	labour	17	51	.88	.61	.54	.17	.51	36	91	.99	
		(22.99	(20.87	(20.09	(19.31	(20.73	(23.78	(21.99	(20.37	(19.68)	(21.35	
)))))))))	
	a) Hired	6884.0	7308.6	8925.	17884	10250	6884.	7308.	8617.8	12675.	8871.	
	labour	3	4	77	.22	.67	03	64	2	25	43	
		(6.45)	(6.62)	(7.51)	(14.51	(8.93)	(6.87)	(6.98)	(7.81)	(10.87)	(8.21)	
)							
	b)	17624.	15715.	14929	5906.	13543	16924	15715	13838.	10255.	14183	
	Family	14	87	.11	39	.88	.14	.87	54	66	.55	
	labour	(16.53	(14.24	(12.57	(4.79)	(11.80	(16.90	(15.01	(12.55	(8.80)	(13.13	
))))))))	
2.	Sett's/	11290.	12584.	14688	15338	13475	10066	11433	12666.	14024.	12047	
	seeds	66	65	.56	.05	.48	.67	.33	67	04	.68	
		(10.59	(11.40	(12.37	(12.44	(11.74	(10.05	(10.92	(11.44	(12.03)	(11.15	
)))))))))	
3.	Manure	2575.1	2298.7	2050.	2045.	2242.	2275.	2488.	2023.3	1815.1	2150.	
		2	8	33	23	36	05	78	3	2	57	
		(2.41)	(2.08)	(1.72)	(1.66)	(1.95)	(2.27)	(2.37)	(1.82)	(1.55)	(1.99)	
4.	Fertilize	6250.4	7324.5	8575.	9523.	7918.	5945.	6455.	7366.7	8323.3	7022.	
	rs	5	6	33	32	14	04	05	6	3	54	
		(5.86)	(6.63)	(7.22)	(7.73)	(6.89)	(5.93)	(6.16)	(6.65)	(7.14)	(6.50)	
5.	Plant	1900.6	2335.4	2536.	2723.	2373.	1500.	1878.	2166.6	2368.7	1978.	
	protecti	5	5	67	04	95	05	12	7	8	40	
	on	(1.78)	(2.11)	(2.13)	(2.21)	(2.06)	(1.49)	(1.79)	(1.95)	(2.03)	(1.83)	
6.	Irrigatio	9485.5	10625.	12985	13084	11545	7423.	8833.	10368.	11612.	9559.	

TABLE 1: COST OF CULTIVATION PER HECTARE OF SUGARCANE FORDIFFERENT CATEGORIES OF FARMERS (RS. /HA)



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	n	6	55	.50	.05	.16	33	33	67	11	36
	charges	(8.90)	(9.63)	(10.93	(10.62	(10.06	(7.41)	(8.43)	(9.36)	(9.96)	(8.85)
)))					
7.	Machin	9656.3	10456.	11068	13023	11051	8636.	9862.	11888.	12818.	10801
	e labour	6	24	.24	.28	.03	67	33	78	12	.48
		(9.06)	(9.47)	(9.32)	(10.57	(9.62)	(8.63)	(9.42)	(10.74	(11.00)	(10.00
0	NC 11	007.05	026.67	1005)	0767	007.0	0.45.0)	1500 7)
8.	Miscell	827.25	926.67	1025.	1128.	9/6./	997.0	845.2 5	1320.1	1588.7	1187.
	aneous	(0.77)	(0.84)	$\frac{21}{(0.86)}$	(0.01)	9	(0,00)	$\frac{3}{(0.80)}$	$\frac{2}{(1 \ 10)}$	0	$\frac{80}{(1,10)}$
	expense			(0.80)	(0.91)	(0.83)	(0.99)	(0.80)	(1.19)	(1.30)	(1.10)
9	Interest	4654 5	4870 3	5374	5645	5136	4245	4537	4918.0	6384.8	5021
2.	on	9	4	93	89	43	64	44	1	4	48
	working	(4.36)	(4.41)	(4.52)	(4.58)	(4.47)	(4.24)	(4.33)	(4.44)	(4.53)	(4.65)
	capital	× ,				× /	× ,	× /		× ,	
Z	Total	71148.	74446.	82159	86301	78514	64897	69358	75175.	80764.	72549
	operati	81	75	.65	.51	.18	.66	.15	37	87	.01
	onal	(66.76	(67.48	(69.20	(70.05	(68.41	(64.83	(66.26	(67.93	(69.32)	(67.18
	cost)))))))))
	Fixed cos	ts/overhe	ead cost	1	1	1	1		1	1	
10.	Land	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
1.1	revenue	(0.04)	(0.03)	(0.04)	(0.03)	(0.03)	(0.04)	(0.04)	(0.04)	(0.03)	(0.04)
11.	Deprecia	15/8.7	1983.	2602.	2902.	2322.	1378.	1480.	1645.2	1866.6	1592.7
	tion	/	65	$\frac{32}{(2,10)}$	10	64	88	04	\mathbf{S}	/	I
10	Dontol	(1.48)	(1.79)	(2.19)	(2.35)	(1.01)	(1.37)	(1.41)	(1.48)	(1.60)	(1.47)
12.	Kental	30000. 00	30000	30000	00	00	00	00	30000. 00	30000. 00	30000. 00
	owned	(28.15	.00	.00	(24.35)	.00	.00	.00	(27.10)	(25.75)	(27,78)
	land)))))	(20.00)	(23.75	(27.70)
13.	Interest	3794.4	3843.	3917.	3953.	3883.	3770.	3782.	3802.4	3829.0	3796.1
	on fixed	9	07	32	29	75	50	64	7	4	6
	capital	(3.56)	(3.84)	(3.29)	(3.21)	(3.38)	(3.76)	(3.61)	(3.43)	(3.28)	(3.51)
	Total	35415.	35868	36561	36897	36248	35191	35304	35489.	35737.	35430.
	overhea	26	.72	.64	.39	.40	.38	.68	72	71	87
	d cost	(33.23	(32.51	(30.79	(29.94	(31.58	(35.16	(33.73	(32.06	(30.67	(32.81)
)))))))))	
	Total	10656	11031	11872	12319	11476	10008	10466	11066	11650	10797
	cost	4.07	5.48	1.29	8.90	2.58	9.04	2.83	5.09	2.58	9.88
		(100.0		(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0 0)

Note: figures in the parentheses indicate percentages to total

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TADLE 2. COST OF CUI TIVATION AS DED THE CACD ADDOACH (DS //14.)

SI	Costal	KCCh	oldora				Non KCC holders					
SI.	Costs/	KUU II	olders	N. I.	T	0	NOIL IN			T	0	
INO	Category	Marg	Small	Medi	Large	Over	Marg	Small	Niedi	Large	Over	
•		inal	(0.7.5.(um	00000		inal		um		all	
1	Cost A_1 (all	55145	60/56	69874	83339	6/334	49394	55164	63024	72417	60000	
	actual	.44	.53	.86	.22	.94	.40	.32	.08	.88	.17	
	expenses)		(50.06	(53.50			(44.86	(47.91	(51.77	(56.50	(50.51	
		(47.04))	(61.49	(53.33)))))	
)))						
2.	$Cost A_2 =$	55145	60756	69874	83339	67334	49394	55164	63024	72417	60000	
	Cost A_1 +	.44	.53	.86	.22	.94	.40	.32	.08	.88	.17	
	rent paid for		(50.06	(53.50			(44.86	(47.91	(51.77	(56.50	(50.51	
	leased in	(47.04))	(61.49	(53.33)))))	
	land)))						
3.	Cost $B_1 =$	58939	64599	73792	87292	71218	53164	58946	66826	76246	63796	
	Cost A ₁	.93	.60	.18	.51	.69	.90	.96	.55	.92	.33	
	+interest on	(50.28	(53.23	(56.50	(64.41	(56.41	(48.28	(51.20	(54.89	(59.49	(53.71	
	value of))))))))))	
	owned fixed											
	capital											
4.	Cost $B_2 =$	88939	94599	10379	11729	10121	83164	88946	96826	10624	93796	
	Cost B_1 +	.93	.60	2.18	2.51	8.69	.90	.96	.55	6.92	.33	
	rental value	(75.87	(77.95	(79.47	(86.55	(80.18	(75.53	(77.25	(79.54	(82.90	(78.96	
	of owned))))))))))	
	land								•			
5.	Cost $C_1 =:$	76564	80315	88721	93198	84762	70089	74662	80665	86502	77979	
	Cost B_1 +	.07	.47	.29	.90	.57	.04	.83	.09	.58	.88	
	imputed	(65.31	(66.19	(67.93	(68.77	(67.14	(63.66	(64.85	(66.26	(67.49	(65.65	
	value of))))))))))	
	family	<i>,</i>	·	· ·	·	,		/	<i>,</i>	<i>,</i>	<i>.</i>	
	labour											
6.	Cost C_2 =	10656	11031	11872	12319	11476	10008	10466	11066	11650	10797	
	Cost B_2 +	4.07	5.48	1.29	8.90	2.58	9.04	2.83	5.09	2.58	9.88	
	imputed	(90.90	(90.90	(90.90	(90.90	(90.90	(90.90	(90.90	(90.90	(90.90	(90.90	
	value of))))))))))	
	family	<i>´</i>	Í	Í	Í	<i>,</i>	Í	,		Í		
	labour											
7.	Cost $C_3 =$	11722	12134	13059	13551	12623	11009	11512	12173	12815	11877	
	Cost C_2 + 10	0.48	7.02	3.41	8.79	8.84	7.94	9.11	1.59	2.84	7.87	
	percent of	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	(100.0	
	$cost C_2$ to))))	Ò))))))	
	account for	-				-	-	-	-			
	managerial											
	function											



p fa	berform by Farmer.										
---------	-----------------------	--	--	--	--	--	--	--	--	--	--

Note: figures in the parentheses indicate percentages to the total cost (C_3)

TABLE 3: RETURNS FROM SUGARCANE PRODUCTION FOR DIFFERENTCATEGORIES OF FARMERS

Sl.	Particular	KCC h	olders				Non KCC holders				
No.	S	Margi	Smal	Medi	Larg	Over	Marg	Smal	Medi	Larg	Over
		nal	1	um	e	all	inal	1	um	e	all
1.	Cost of	10656	1103	1187	1231	1147	1000	1046	11066	1165	1079
	cultivation	4.07	15.48	21.29	98.90	62.58	89.04	62.83	5.09	02.58	79.88
	(Rs./ha)										
2.	Yield of	667.0	686.6	721.1	754.5	707.3	590.2	615.2	633.3	676.5	628.8
	main	4	7	2	5	4	5	3	3	4	4
	product										
-	(Q./ha)	45.00	47.00	50.00	50	50.00	12.00	45.00	40.00	52.00	17.0
3.	Yield of	45.00	47.00	50.00	58	50.00	42.00	45.00	48.00	53.00	470
	By product										0
1	Q./na	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0
4.	main	0	0	0	0	0	0	0	0	0	0
	product(Rs	U	0	U	U	U	U	U	U	0	0
	(0)										
5.	Prices of	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
	By product										
	(Rs. /Q.)										
6.	Returns of	21011	2163	2271	2376	2228	1859	1937	19949	2131	1980
	main	7.60	01.05	52.80	83.25	12.10	28.75	97.45	8.95	10.10	84.60
	product(Rs										
	./ha)										
7.	Returns of	2700.	2820.	3120.	3480.	3000.	2520.	2700.	2880.	3300.	2820.
	By product	00	00	00	00	00	00	00	00	00	00
0	(Rs./ha)	01001	0101	2202	0411	2250	1004	10(4	20227	0164	2000
8.	Gross	21281	2191	2302	2411	2258	1884	1964	20237	2164	2009
	$(\mathbf{P}_{\alpha}/\mathbf{h}_{\alpha})$	7.00	21.03	72.80	05.25	12.10	48.75	97.43	8.95	10.10	04.00
0	(KS./IId)	10656	1088	1115	1170	1110	8835	0183	01713	0000	0202
9.	Rs /ha	4 53	05 57	51 51	64 35	49.52	971	4 62	3.86	7 52	9292 4 72
	IX5. /11d	т.33	05.57	51.51	04.33	77.52	2.71	7.02	5.00	1.52	7.72
10.	Cost of	159.7	160.6	164.6	163.2	162.2	169.5	170.1	174.7	172.2	171.7
	production	5	5	3	7	4	7	1	3	0	1
	(Rs./Q)										
11.	B:C	1.99	1.98	1.93	1.95	1.96	1.88	1.87	1.83	1.85	1.86
	ratio(BCR)										



Note: figures in the parentheses indicate percentages to the total cost (C_{3})

TABLE 4: PER HECTARE COST INPUT OF FACTORS IN PADDY CULTIVATION(RS. /HA)

Sl.	Cost Items	KCC h	olders				Non KCC holders					
No.		Margi	Small	Medi	Larg	Overal	Margi	Small	Mediu	Large	Overa	
		nal		um	e	l	nal		m		11	
	Operationa	nl cost										
	Human	14008.	14624.	14854.	14390.	14469.	13508.	13724.	13656.	13330.9	13554.	
	labour	17	50	88	61	54	2	4	36	1	99	
		(26.13)	(26.09)	(25.15	(23.80	(25.25	(26.67	(26.27	(24.77)	(23.33)	(25.22	
))))))	
	a) Hired	2884.0	3308.6	5925.7	11884.	6000.6	2884.0	3008.6	5217.8	10675.2	5446.4	
	labour	3	4	7	22	6	3	4	2	5	3	
		(5.38)	(5.90)	(10.03	(19.66	(10.47	(5.73)	(5.76)	(9.44)	(18.69)	(10.13	
)	5)))	
	b) Family	11124.	11315.	8929.1	2506.3	8468.8	10624.	10715.	8438.5	2655.66	8108.5	
	labour	14	87	1	9	7	14	9	4	(4.64)	5	
		(20.75)	(20.19)	(15.12	(4.14)	(14.78	(21.06	(20.51	(15.30)		(15.09	
)))))	
	Seeds	2290.6	2384.6	2688.5	3038.0	2650.4	2066.6	2233.3	2666.6	2824.04	2447.6	
		6	5	6	5	8	7	3	7	(4.94)	8	
		(4.27)	(4.25)	(4.55)	(5.02)	(4.53)	(4.09)	(4.27)	(4.83)		(4.5)	
	Manure	1575.1	1298.7	950.33	1045.2	1217.3	1475.0	988.78	1123.3	1215.12	1200.5	
		2	8	(1.60)	3	6	5	(1.89)	3	(2.12)	7	
		(2.98)	(2.31)		(1.72)	(2.12)	(2.92)		(2.03)		(2.28)	
	Fertilizers	4950.4	5324.5	5575.3	6023.3	5468.4	3945.0	4455.0	5366.7	5923.33	4922.5	
		5	6	3	2	1	4	5	6	(10.37)	4	
		(9.23)	(9.50)	(9.44)	(9.96)	(9.54)	(7.82)	(8.52)	(9.73)		(9.16)	
S	Plant	1900.6	2335.4	2536.6	2723.0	2373.9	800.05	1178.1	1366.6	1568.78	1228.4	
	protection	5	5	7	4	5	(1.51)	2	7	(2.74)	0	
		(3.54)	(4.16)	(4.29)	(4.50)	(4.14)		(2.25)	(2.47)		(2.28)	
	Irrigation	2485.5	2625.5	3985.5	4084.0	3295.0	3123.3	3233.3	3368.6	3612.11	3334.3	
	charges	6	5	0	5	0	3	3	7	(6.32)	6	
		(4.63)	(4.68)	(6.74)	(6.75)	(5.75)	(6.19)	(6.19)	(6.11)		(6.20)	
	Machine	4656.3	5456.2	6068.2	6223.2	5601.0	4036.6	4862.3	5488.7	6218.12	5151.4	
	labour	6	4	4	8	3	7	3	8	(10.88)	8	
		(8.68)	(9.73)	(10.27	(10.29	(9.77)	(8.00)	(9.30)	(9.95)		(9.54)	
))							
	Miscellan	827.25	926.67	1025.2	1128.0	976.79	997.04	845.25	1020.1	988.78	962.80	
	eous	(1.54)	(1.65)	1	4	(1.70)	(1.97)	(1.69)	2	(1.73)	(1.79)	
	expenses			(1.73)	(1.86)				(1.85)			
	Interest	2288.5	2448.3	2637.9	2705.8	2520.1	2096.6	2206.4	2384.0	2497.68	22296.	
	on	(4.26)	4	3	9	9	4	4	1	(4.37)	19	
	working		(4.36)	(4.46)	(4.47)	(4.39)	(4.15)	(4.22)	(4.32)		(4.27)	



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	capital										
Z	Total	34982.	37424.	40322.	41361.	38522.	32048.	33727.	36441.	38178.9	35099.
	operatio	81	8	7	5	9	7	2	4	(66.84)	01
	nal cost	(65.26)	(66.75)	(68.2)	(68.42	(67.24	(63.53	(64.57	(66.09)		(65.25
)))))
	Fixed costs	/Overhea	d cost						1		
	Land	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
	revenue	(0,08)	(0.07)	(0.07)	(0.06)	(0.07)	(0.08)	(0.08)	(0.08)	(0.07)	(0.08)
-	Depreciati	1578.7	1583.6	1682.3	2002.1	1711.7	1378.	1480.0	1645.2	1866.6	1592.7
	on	7	5	2	0	1	88	4	5	7	1
		(2.94)	(2.82)	(2.84)	(3.30)	(2.98)	(2.73)	(2.83)	(2.98)	(3.26)	(2.96)
	Rental	15000	15000.	15000.	15000.	15000.	1500	15000.	15000.	15000.	15000.
	value of	(27.98)	00	00	00	00	0.00	00	00	00	00
	owned		(26.76	(25.40)	(24.81	(26.18	(29.7	(28.7)	(27.20)	(26.26)	(27.91)
	land)))	3)				
	Interest on	1994.4	1995.0	2006.9	2045.2	2010.4	1970.	1982.6	2002.4	2029.0	1996.1
	fixed	9	7	18	9	5	56	4	7	4	6
	capital	(3.72)	(3.55)	(3.39)	(3.38)	(3.50)	(3.90)	(3.79)	(3.63)	(3.55)	(3.71)
	Total	18615.	18620.	18731.	19089.	18764.	1839	18504.	18689.	18937.	18630.
	overhead	26	73	24	39	155	1.39	68	72	71	82
	cost	(34.73)	(37.22	(31.71)	(31.57	(32.75	(36.4	(35.42	(33.90)	(33.15	(34.67)
)))	6))			
	Total cost	53598.	56045.	59053.	60450.	57287.	5044	52231.	55131.	57116.	53729.
		07	50	89	90	10	0.10	80	10	60	90
		(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Note: figures in the parentheses indicate percentages to total

TABLE 5: COST OF CULTIVATION AS PER THE CACP APPROACH (RS./HA.)

SI.	Costs/	KCC ho	olders				Non KCC holders					
No.	Category	Margi	Small	Medi	Large	Overa	Margi	Small	Mediu	Large	Overa	
		nal		um	_	11	nal		m	_	11	
1	Cost A ₁	25479.	277(44.	33117	40899.	31807.	22845.	24533.	29690.	37431.	28625.	
	(all actual	44	98(44.9	.91	21	74	44	34	11	91	17	
	expenses)	(43.21	8)	(50.9	(61.50	(50.47	(41.17	(42.70	(48.96	(59.58	(48.43	
)		8))))))))	
2.	Cost $A_2 =$	25479.	277(44.	33117	40899.	31807.	22845.	24533.	29690.	37431.	28625.	
	Cost A ₁ +	44	98(44.9	.91	21	74	44	34	11	91	17	
	rent paid	(43.21	8	(50.9	(61.50	(50.47	(41.17	(42.70	(48.96	(59.58	(48.43	
	for leased)		8))))))))	
	in land											
3.	Cost $B_1 =$	27473.	29729.	35124	42944.	33818.	24816.	26515.	31692.	39460.	30621.	
	Cost A ₁	93	65	.83	50	19	00	98	58	95	33	
	+interest	(46.59	(48.22)	(54.0	(64.58	(53.66	(44.73	(46.15	(52.26	(62.80	(59.10	
	on value of)		7))))))))	



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	owned										
	fixed										
	capital										
4.	Cost $B_2 =$	42473.	44729.	50124	57944.	48818.	39816.	41515.	46692.	54460.	45621.
	Cost B_1 +	93	65	.83	50	19	00	98	58	95	33
	rental value	(72.04	(72.55)	(77.1	(87.13	(77.46	(71.76	(72.25	(76.99	(86.68	(77.19
	of owned)		6))))))))
	land										
5.	Cost $C_1 =:$	38598.	41045.	44053	45450.	42287.	35440.	37231.	40131.	42116.	38729.
	Cost B_1 +	07	52	.94	89	06	14	88	12	61	88
	imputed	(65.46	(66.57)	(67.8	(68.35	(67.10	(63.87	(64.80	(66.17	(67.03	(65.53
	value of)		1))))))))
	family										
	labour										
6.	Cost C_2 =	53598.	56045.	59053	60450.	57287.	50440.	52231.	55131.	57116.	53729.
	Cost B ₂ +	07	50	.89	90	10	10	80	10	60	90
	imputed	(90.90	(90.90)	(90.9	(90.90	(90.90	(90.90	(90.90	(90.90	((90.9	(90.90
	value of)		0)))))))	0))
	family										
	labour										
7.	Cost $C_3 =$	58957.	61650.	64959	66495.	63015.	55484.	57455.	60644.	62828.	59102.
	Cost C ₂ +	88	07	.33	979	77	15	07	23	27	87
	10 percent	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)
	of cost C_2										
	to account										
	for										
	managerial										
	function										
	perform by										
	farmer.										

Note: figures in the parentheses indicate percentages to the total cost (C_3)

TABLE 6: RETURNS FROM PADDY PRODUCTION FOR DIFFERENT CATEGORIESOF FARMERS

Sl.	Particulars	KCC	holders				Non KCC holders					
No.		Mar	Smal	Medi	Larg	Over	Mar	Smal	Medi	Larg	Over	
		ginal	1	um	e	all	ginal	1	um	e	all	
1	Cost of	5359	5604	5905	6045	5728	5044	5223	55131	5711	5372	
	cultivation	8.07	5.50	3.89	0.90	7.10	0.10	1.80	.10	6.60	9.90	
	(Rs./ha)											
2.	Yield of	58.0	60.67	62.12	64.55	61.34	54.25	55.23	56.33	58.53	56.08	
	main	4										
	product											
	(Q./ha)											
3.	Yield of	50.0	55.00	56.00	58.00	54.75	48.00	50.00	53.00	56.00	51.75	



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	By product	0									
	(Q./ha										
4.	Prices of	1680	1720.	1750.	1815.	1741.	1600.	1620.	1700.	1800.	1680.
	main	.12	25	75	00	53	10	25	00	20	13
	product (Rs.										
	/Q.)										
5.	Prices of By	200.	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
	product (Rs.	00	0	0	0	0	0	0	0	0	0
	/Q.)										
6.	Returns of	9751	1043	1087	1171	1068	8680	8948	95761	1053	9423
	main	4.16	67.57	56.59	58.25	34.16	5.42	6.41	.00	65.70	0.09
	product(Rs./										
	ha)										
7.	Returns of	1000	1100	1120	1160	1095	9600.	1000	10600	1120	1035
	By product	0.00	0.00	0.00	0.00	0.00	00	0.00	.00	0.00	0.00
	(Rs./ha)										
8.	Gross return	1075	1153	1199	1287	1177	9640	9948	10636	1165	1045
	(Rs./ha)	14.2	67.60	56.60	58.25	84.16	5.42	6.41	1.00	65.70	80.09
		0									
9.	Net income	4279	4800	5197	6580	5202	3534	3653	42791	5679	4274
	Rs. /ha	1.95	6.17	3.54	0.97	8.23	1.14	8.63	.34	3.44	1.66
10.	Cost of	923.	923.7	950	936.4	933.9	929.7	945.7	978.7	975.8	958.0
	production	46	7	64	9	2	7	1	1	5	9
	(Rs./Q)										
11.	B:C	2.00	2.05	2.03	2.12	2.05	1.91	1.90	1.92	2.04	1.94
	ratio(BCR)										

TABLE 7: COST OF CULTIVATION PER HECTARE OF WHEAT FOR DIFFERENT
CATEGORIES OF FARMERS (RS. /HA)

Sl.	Cost	KCC h	olders				Non K	CC hold	ers		
No.	Items	Margi	Small	Med	Large	Ove	Marg	Small	Medi	Large	Over
		nal		ıum		rall	inal		um		all
	Operation	onal cost									
1.	Human	11757	11959	1126	1219	1177	9656.	1039	10754	9807.3	1015
	labour	.45	97	0.36(1	7.43	24	8.03	.88	9	4.14
		(23.27	(22.69	20.54	(21.1	(21.8	(20-	(20.5	(20.25	(17.80)	(19.6
)))	5)	7)	.09)	2))		3)
	a)	3534.	5828.	6421.	8275.	6014.	3325.	5412.	5625.	6593.1	52.39
	Hired	12	64	82	25	96	23	80	77	5	.23
	labour	(6.99)	(11.05	(11.7	(14.4	(11.1	(6.91)	(10.6	(10.60	(11.97)	(10.1
)	10	3)	6)		8))		2)
	b)	8223.	6131.	4838.	3856.	5762.	6331.	4985.	5129.	3214.2	4914.
	Family	33	33	54	67	46	01	23	11	4	89
	labour	(16.27	(11.63	(8.82)	(6.72)	(10.7	(13.1	(9.84)	(9.66)	(5.83)	(9.50)

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))			0)	7)				
2	Seed	3314	3623	3885	4225	3762	3389	3525	3965	4425.8	3826
		74	55	25	38	24	15	23	32	5	38
		(6.56)	(6.87)	(7.08)	(7.36)	(6.98)	(7.05)	(6.95)	(7.46)	(8.03)	(7 39)
3	Manure	2375	2398	2325	2365	2366	2378	2389	2314	(0.05)	2386
5.	Wanare	12	78	12	2505.	2500. 06	<i>2370.</i> <i>45</i>	16	2511.	5	2300. 77
		(4.70)	(455)	(4 24)	(4 12)	(4 39)	(4 94)	(471)	(4 35)	$(4 \ 47)$	(4 61)
Δ	Fertiliz	3250	3324	4425	4878	3969	3125	3655	4065	5480.6	4081
т.	ers	<i>323</i> 0. <i>4</i> 5	552 4 .	96	20	79 79	125.	80	-00 <i>5</i> . 23	0	71
	015	(6.43)	(6.30)	(8.07)	(850)	(7, 37)	(650)	(7.21)	(7.65)	(9.95)	(789)
5	Plant	979.6	1210	1589	1678	1364	1225	1478	1535	1774 5	1503
5.	nrotecti	5	1210. 45	130 <i>)</i> . 78	30	130 4 . 54	1225.	1470. 60	05	6	65
	on	(1 04)	(2, 20)	(2.80)	(2 02)	(253)	(255)	(202)	(2.80)	(3, 22)	(200)
6	Irrigoti	(1.94)	(2.29)	(2.09)	(2.92)	(2.33)	(2.33)	(2.92)	(2.09)	(3.22)	(2.90)
0.	on	+20J. 56	+02J. 55	00	28 28	+923. 37	4 <i>395</i> . 22	4735. 78	50	8	00
	ohorgoo	$\frac{30}{(9.19)}$	(9,77)	90	20 (0.60)	52 (0.14)	$\frac{23}{(0.24)}$	70 (0.24)	$\frac{50}{(10.14)}$	0 (10.20)	99
	charges	(0.40)	(0.77)	(9.01)	(9.00)	(9.14)	(9.24)	(9.54)	(10.14	(10.39)	(9.78)
7.	Machin	4012.	4516.	4618.	4890.	4509.	3450.	3596.	3610.	3683.1	3585.
	e	25	26	33	22	26	78	23	14	6	07
	labour	(7.94)	(8.56)	(8.42)	(8.52)	(8.37)	(7.18)	(7.09)	(6.79)	(6.68)	(6.93)
8.	Miscell	727.2	849.2	996.1	1089.	915.4	789.3	821.6	1086.	1128.3	956.4
	aneous	5	5	2	21	5	3	5	68	1	9
	expens	(1.43)	(1.61)	(1.81)	(1.89)	(1.70)	(1.64)	(1.62)	(2.04)	(2.04)	(1.84)
	es			× ,		× ,	× ,	~ /	× ,		` ,
9.	Interest	2149.	2275.	2406.	2573.	2351.	1988.	2142.	2290.	2414.2	2208.
	on	18	59	10	81	16	68	05	26	0	79
	workin	(4.25)	(4.31)	(4.39)	(4.48)	(4.36)	(4.13)	(4.23)	(4.31)	(4.38)	(4.27)
	g)							
	capital										
Z	Total	32851	34783	3677	3934	3593	3039	3274	35008	36902.	3376
	operati	.68	.96	8.92	2.57	9.28	8.38	2.71	.21	80	3.02
	onal	(65.03	(66.00	(67.0	(68.5	(66.7	(63.2	(64.6	(65.93	(67.00)	(65.2
	cost)))	8)	8)	3)	5)	3))		7)
	Fixed co	sts/overh	nead cost	t				•			
10.	Land	42.00	42.00	42.00	42.00	42.00	42.0	42.00	42.00	42.00	42.00
	revenue	(0.08)	(0.08)	(0.08)	(0.07)	(0.08)	0	(0.08)	(0.08)	(0.08)	(0.08)
							(0.08				
)				
11.	Depreci	729.4	956.2	1068.	1045.	949.9	725.	956.9	1105.	1179.	991.8
	ation	5	5	78	12	0	63	0	14	84	7
		(1.44)	(1.81)	(1.94)	(1.82)	(1.76)	(1.50	(1.89)	(2.08)	(2.14)	(1.91)
)				
12.	Rental	15000	15000	15000	1500	1500	1500	1500	15000	15000	15000
	value of	.00	.00	.00	0.00	0.00	0.00	0.00	.00	.00	.00



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	owned	(29.69	(28.4	(27.36	(26.1	(27.8	(31.2	(29.6	(28.25	(27.23	(29.00
	land)	6))	5)	5)	1)	0))))
13.	Interest	1892.	1919.	1933.	1930.	1919.	1892	1919.	1937.	1946.	1924
	on fixed	57	79	29	45	02	.12	87	65	62	06
	capital	(3.74)	(3.64)	(3.52)	(3.36)	(3.56)	(3.93	(3.79)	(3.64)	(3.53)	(3.72)
	1)		. ,		
	Total	17664	17918	18044	1801	1791	1765	1791	18084	18168	17957
	overhea	.02	.04	.07	7.57	0.93	9.75	8.77	.80	.46	.94
	d cost	(34.96	(33.9	(32.91	(31.4	(33.2	(36.7	(35.3	(34.06	(32.99	(34.72
)	9))	1)	6)	4)	6))))
	Total	50515	52702	54822	5736	5385	4805	5066	53093	55071	51720
	cost	.70	.00	.99	0.15	0.21	8.12	1.47	.00	.26	.97
		(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)
		(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Note: figures in the parentheses indicate percentages to total

TABLE 8: COST OF CULTIVATION AS PER THE CACP APPROACH (RS./HA.)

Sl.	Costs/	KCC h	olders				Non K	CC hold	lers		
No.	Category	Marg	Small	Medi	Large	Over	Marg	Small	Medi	Larg	Over
		inal		um		all	inal		um	e	all
1	Cost A_1	2539	2965	3305	3657	3116	2483	2875	3102	3491	2988
	(all actual	9.80	0.88	1.16	3.02	8.72	5.00	6.38	6.24	0.40	2.00
	expenses)	(45.7	(51.1	(50.9	(61.5	(50.4	(41.1	(42.7	(48.9	(59.5	(48.4
		1)	4)	8)	0)	7)	7)	0)	6)	8)	3)
2.	Cost $A_2 =$	2539	2965	3305	3657	3116	2483	2875	3102	3491	2988
	Cost A_1 +	9.80	0.88	1.16	3.02	8.72	5.00	6.38	6.24	0.40	2.00
	rent paid	(45.7	(51.1	(50.9	(61.5	(50.4	(41.1	(42.7	(48.9	(59.5	(48.4
	for leased	1)	4)	8)	0)	7)	7)	0)	6)	8)	3)
	in land										
3.	Cost $B_1 =$	2729	3157	3498	3850	3308	2672	3067	3296	3685	3180
	Cost A_1	2.37	0.67	4.45	3.47	7.74	7.12	6.25	3.89	7.02	6.06
	+interest	(49.1	(54.4	(54.0	(64.5	(53.6	(44.7	(46.1	(52.2	(62.8	(59.1
	on value	1)	5)	7)	8)	6)	3)	5)	6)	0)	0)
	of owned										
	fixed										
	capital										
4.	Cost $B_2 =$	4229	4657	4998	5350	4808	4172	4567	4796	5185	4680
	Cost B_1 +	2.37	0.67	4.45	3.47	7.74	7.12	6.25	3.89	7.02	6.06
	rental	(76.1	(80.3	(77.1	(87.1	(77.4	(71.7	(72.2	(76.9	(86.6	(77.1
	value of	1)	3)	6)	3)	6)	6)	5)	9)	8)	9)
	owned										
	land										
5.	$Cost C_1 =:$	3551	3770	3982	4236	3885	3305	3566	3809	4007	3672
	Cost B_1 +	5.70	2.00	2.99	0.14	0.20	8.13	1.48	3.00	1.26	0.95
	imputed	(63.9	(665.	(67.8	(68.3	(67.1	(63.8	(64.8	(66.1	(67.0	(65.5
	value of	1)	03)	1)	5)	0)	7)	0)	7)	3)	3)



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	family										
	laboui										
6.	Cost $C_2 =$	5051	5270	5482	5736	5385	4805	5066	5309	5507	5172
	Cost B ₂ +	5.70	2.00	2.99	0.15	0.21	8.12	1.47	3.00	1.26	0.97
	imputed	(90.9	(90.9	(90.9	(90.9	(90.9	(90.9	(90.9	(90.9	(90.9	(90.9
	value of	0)	0)	0)	0)	0)	0)	0)	0)	0)	0)
	family										
	labour										
7.	Cost $C_3 =$	5556	5797	6030	6309	5923	5286	5572	5840	6057	5689
	Cost C ₂ +	7.27	2.20	5.28	6.17	5.23	3.93	7.62	2.3	8.39	3.07
	10 percent	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)
	of cost C_2										
	to account										
	for										
	manageria										
	1 function										
	perform										
	by farmer.										

Note: figures in the parentheses indicate percentages to the total cost (C_3)

TABLE 9:	RETURNS FROM WHEAT PRODUCTION FOR DIFFERENT
	CATEGORIES OF FARMERS

Sl.	Particula	KCC holders						Non KCC holders					
No.	rs	Marg	Smal	Medi	Larg	Over	Marg	Smal	Medi	Larg	Over		
		inal	1	um	e	all	inal	1	um	e	all		
1	Cost of	5051	5270	5482	5736	5385	4805	5066	53093	5507	5172		
	cultivation	5.70	2.00	2.99	0.15	0.21	8.12	1.47	.00	1.26	0.97		
	(Rs./ha)												
2.	Yield of	38.04	40.67	42.12	44.67	41.37	34.04	36.23	39.25	42.33	37.96		
	main												
	product												
	(Q./ha)												
3.	Yield of	34.00	35.00	36.00	36.00	35.25	33.00	33.00	34.00	35.00	33.75		
	By												
	product												
	(Q./ha												
4.	Prices of	1720.	1750.	1800.	1925.	1748.	1720.	1740.	1780.	1850.	1772.		
	main	00	00	00	00	75	00	00	00	00	50		
	product												
	(Rs. /Q.)												
5.	Prices of	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0		
	By	0	0	0	0	0	0	0	0	0	0		
	product												
	(Rs. /Q.)												
6.	Returns of	6542	7117	7581	8598	7234	5854	6304	69886	7831	6728		



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	main	8.80	2.50	6.00	9.75	5.79	8.80	0.20	5.00	0.50	4.10
	product(R										
	s./ha)										
7.	Returns of	1020	1050	1080	1080	1057	9900.	9900.	10200	1050	1012
	By	0.00	0.00	0.00	0.00	5.00	00	00	.00	0.00	5.00
	product										
	(Rs./ha)										
8.	Gross	7562	8167	8661	9678	8292	6844	7294	80065	8881	7740
	return	8.80	2.5	6.00	9.75	0.79	8.80	0.20	.00	0.50	9.10
	(Rs./ha)										
9.	Net	2511	2897	3179	3942	2907	2039	2277	26972	3373	2568
	income	3.10	0.50	3.01	9.60	0.58	0.68	8.73	.00	9.24	8.13
	Rs. /ha										
10.	Cost of	1327.	1295.	1301.	1284.	1301.	1411.	1398.	1352.	1300.	1362.
	production	96	84	59	08	67	81	32	68	99	51
	(Rs./Q)										
11.	B:C	1:1.4	1:1.5	1:1.5	1:1.6	1:1.5	1:1.4	1:1.4	1:1.50	1:1.6	1:1.4
	ratio(BCR	9	4	7	8	3	2	3		2	9
)										

TABLE 10: IMPACT OF KISAN CREDIT CARD SCHEME ON AGRICULTURAL
PRODUCTION, PRODUCTIVITY AND INCOME OF MAJOR CROPS

S1.	Partic	Non	KCC	Non	KCC	Non	KCC	Non	KCC	Non	KCC
No.	ulars	KCC	holder	KCC	holde	KCC	hold	KCC	holder	KCC	holder
	/crops	holder	S	holder	rs	holder	ers	holder	S	holder	S
		S		S		S		S		S	
		Marginal		Small farmers		Medium		Large farmers		Overall	
		farmers				farmers		-			
	Sugarcane										
1	Produ	590.2	667.04	615.2	686.6	633.3	721.1	676.54	754.5	628.8	707.34
	ctivity	5		3	7	3	2		5	4	
	(q./ha.										
)										
2.	Gross	18844	212817	19649	2191	20237	2302	21641	24116	20090	22581
	incom	8.75	.60	7.45	21.05	8.95	72	0.10	3.25	4.60	2.10
	e										
	(Rs.`/h										
	a.)										
3.	Net	88359	106564	91834	1115	91713	1115	99907.	11796	92924	11104
	incom	.71	.53	.62	51.51	3.86	51.51	52	4.35	.72	9.52
	e										
	(`Rs./h										
	a.)										

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	Paddy										
1.	Produ	54.25	58.04	55.23	60.67	56.33	62.12	58.33	64.55	61.34	56.08
	ctivity										
	(q./ha.										
)										
2.	Gross	96405	107514	99486	1153	10636	1199	11656	12875	11778	10458
	incom	.42	.20	.41	67.60	1.00	56.60	5.70	8.25	4.16	0.09
	e										
	(Rs.`/h										
	a.)										
3.	Net	35341	42791.	36538	4800	42791	5197	56793.	65800	52028	42741.
	incom	.14	95	.63	6.17	.34	3.54	44	.97	.23	66
	e										
	(`Rs./h										
	a.)										
	Wheat				10.57						
1.	Produ	34.04	38.04	36.23	40.67	39.25	42.12	42.33	44.67	37.96	41.37
	ctivity										
	(q./ha.										
2)	(0440	75(00	720.40	01(7	00065	9((1	00010	0(700	77400	00000
2.	Gross	68448. 90	/5628.	72940	8167	80065	8001	88810.	96/89	//409	82920. 70
	incom	80	80	.20	2.30	.00	0.00	50	.75	.10	19
	e (Da`/h										
	$(\mathbf{KS}, \mathbf{M})$										
3	a.j Net	20300	25113	22778	2807	26072	3170	33730	30/20	25688	20070
5.	incom	20390. 68	10	73	0.50	00	3.01	24 24	60	13	29070. 58
	e	00	10	.15	0.50	.00	5.01	27	.00	.15	50
	CRe/h										
	(13.11										

Impact of Kisan Credit Card Scheme on crop Production, Productivity and Income

Table 10. reveals that the impact of the KCC scheme on production, productivity and income increased under all the categories after availing credit under KCC scheme. It can also be seen that productivity of the sugarcane, paddy and wheat crop was found increased with increase in farm size. Overall Gross income of sugarcane crop per hectare was more in KCC holders. It was Rs.225812.10 in KCC holders and Rs. 200904.60 in non- KCC holders per hectare. But net income was more in KCC holders compared to non- KCC holders. It was Rs.111049.52 in KCC holders and Rs. 92924.72 in non- KCC holders per hectare. Overall Gross income paddy crop per hectare was more in KCC holders. It was Rs.117784.16 in KCC holders and Rs. 104580.09 in non KCC holders per hectare. Net income was more in KCC holders compared to non KCC holders compared to non KCC holders compared to non KCC holders and Rs. 104580.09 in NCC holders per hectare. Net income was more in KCC holders compared to non KCC holders compared to non KCC holders compared to non KCC holders and Rs. 104580.09 in NCC holders per hectare. Net income was more in KCC holders compared to non KCC holders compared to non KCC holders per hectare. Net income was more in KCC holders compared to non KCC holders per hectare. Overall Gross income of wheat crop per hectare was more in KCC holders. It was Rs.22028.23 in KCC holders and Rs.42741.66 in non KCC holders. It was Rs.82920.79



in KCC holders and Rs.77409.10 in non KCC holders per hectare. Net income was more in KCC holders compared to non KCC holders. It was Rs.29070.58 in KCC holders and Rs.25688.13 in non KCC holders per hectare.

CONCLUSION

Total cost per hectare was higher in KCC farmers compared to non- KCC farmers. This difference was mainly due to higher cost of variable input used in KCC farmers compared to non- KCC farmers. The cost of cultivation shown increasing trend from marginal to large farmer in KCC holders and non KCC holders. It due to fact that large size of holding farmer could incur more expenditure on modern farm input like quality of seed, hired labour, manure, fertilizers, plant protection and machine labour charges etc. Cost A₁ and cost A₂ were found to be same as there was no land was taken on lease. Cost B₁, cost B₂, cost C₁ and C₂ was more of KCC farmers than the non KCC farmers. It was found the impact of the KCC scheme on production, productivity and income increased under all the categories after availing credit under KCC scheme. Among the different categories of farmers, productivity of marginal, medium, and large KCC holders has been recorded higher compared to non-KCC holders. Production of sugarcane, paddy and wheat crop on KCC holders' farms was also found to be higher compared to non-KCC holders. The productivity per hectare was increased on their farms due to use of credit amount availed under the KCC scheme for purchasing the best quality inputs. At the overall, gross returns, net returns of sugarcane, paddy and wheat crops was higher in KCC holders compared to non-KCC holders.

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