<u>Chapter-2</u>

Review of Literature: The Perception and Research

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This chapter reviews the research work done in the fields related to the objectives of the study. There are a hardly comprehensive studies made available on socialization of rubber enterprise. But the socialization on technology of various different crops as well studies on small holding enterprise related of factors are. Therefore, in this chapter reviews relevant to the present study and even for the other agricultural crops are presented. For the sake of convenience, the reviews are presented under the following sub-headings.

- 2.1 Socialization: The most comprehensive process in the journey of technology in social-ecology.
- 2.2 Adoption: The most projected consequences.
- 2.3 Factors related to Small holding enterprise.
- 2.4 Constraints relating to farming.
- 2.5 Adoption, Discontinuance and rejection as a whole Technology Socialization.

2.1 Review on socialization

Sl.	Source	Ye	Title	Auth	Key contents
N		ar		or's	-
0.					
2	Ecologi cal- Econom ics. 68 (10): 2721- 2728. Agrarfo rschung.	20 09 20 09	social cost of pesticide use: an	and Porto Hartw	Found the "invisible" or social, environmental and health costs which end up being socialized with the farmer, in general, having no incentives to recognize and internalize them. The social connectivity between the farmers and also
	16 (6): 186- 191.		knowledge to development.		with various in the agro- industry and in research and development is an important parameter in determining the innovative behaviour of farmers. The rule is: he who networks is more innovative.
3.	Populati on,- Spacean d- Place. 15(3): 253- 266.	20 09	Whose socialisation? Exploring the social interaction between migrants and communities-of place in rural areas.	Vergu nst	Found that the people belonging to the communities-of-place in the Dutch study do not hold rigidly to some elements of their institutions while they hold on more rigidly to others. The Scottish study showed that farmeremployers even prefer the work ethic of migrants and at the same time there has been some evidence that the work ethic of domestic workers evolves in the direction of that of migrants.

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	I	• •			
4.	Revue-		Women starting up		Found that the agricultural
	d'-	08	in Agriculture:		profession has gradually
	Etudese		from gender		1 * * 1
	n-			he	reproduction strategies of
	Agricult		training.		families through
	ure-et-				socialization, male
	Environ				favouritism in inheritance
	nement.				practices, etc., represent
	88 :71-				considerable barriers to their
	94.				professional choice.
5.	Journal	20	Producers in	Demir	Social network analysis
	of	08	Turkey Use of	yurek	(SNA) is one of the powerful
	Extensio		Social Network		methods which can be
	n		Analysis (SNA) to		identify opinion leaders who
	Systems.		Identify Opinion		can play a critical role to
	24 (1):1-		Leaders: A Case of		influence other people, rate
	16.		Organic Hazelnut.		or disrupt diffusion of
					innovations in rural
					communities.
6.	Revue-	20	Farm succession:	Rossi	Found that, this is partially
	Suisse-	08	Interest and	er.	the result of a gender
	d'-		motivation of the		oriented and farm heir
	Agricult		coming generation.		specific socialization.
	ure.		88		
	40 (3):				
	120-				
	122.				
7.	Psychol	20	Genetic influences	Kendl	Genetic studies have shown
	ogical				that a person's environment
	Medicin			Baker	(Socialization) interacts with
	e. 37		systematic review.		their genotype to influence
	(5):				behavioural outcomes.
	615–				
	626.				

8.	Technol	_	The importance of	Moxle	1
	ogy in	06	social context	-	farmers, results suggest that
	Society.		influences on new	and	the farmer's community and
	28 : 393-		farm technology	Lang	social context are more
	406.		sustainability:		important than the farm and
			community and		personal characteristics in
			sub-community		influencing the long term
			characteristics in		sustainability of a farming
			Jamaica.		innovation.
9.	Tourism	19	Senior women's	Praka	Influenced by their early
	-	99	perception of	sh	socialization, present health
	ecreatio		leisure in India.		and economic status, they
	n-				structure their time in and
	Researc				around their household.
	<i>h.</i> 24 (1):				
	82-85.				
10	Berita-	19	Socialization of	Sutjah	Found that sugar
	Pusat-	97	palm sugar for	ja	consumption in Indonesia
	Peneliti		domestic use.		has increased in parallel with
	an-				population growth rate at
	Perkebu				4.86 per cent whereas the
	nan-				production rate has increased
	Gula-				at 3.5 per cent. Palm sugar
	Indonesi				could therefore, be cultivated
	a				for domestic consumption in
	(20):1-				order to reduce cane sugar
	2.				consumption.
11	Medecin	19	Psychology and	Watie	Found that the, it is a process
	e-et-	94	nutrition: study of	Z	by which children develop
	Nutritio		the process of food		taste, knowledge, opinions
	<i>n</i> . 30 (4):		socialization.		and food related behaviour
	171-				so as to adapt to the eating
	177.				habits of the socio cultural
					group to which they belong.

12	Econom	19	Realize agricultural	Ding	Found solutions to the
	ic-	92	socialization based		conflict between household
	Researc		on domestic		management of agriculture
	h-		management.		and further development of
	Beijing;				agricultural production in
	(1): 48-				China. The paper considers
	52.				agricultural socialization,
					which still retains the
					advantages of family
					management, as the solution
					to the conflict.

2.2 Review on adoption

S	Source	Ye	Title	Author's	Key contents
L		ar			, and the second
N					
0.					
1.	Indian	201	Farmers'	Cavane	The study confirmed that
	Res. J.	1	Attitude and		the adoption of improved
	Ext.		Adoption of		maize technology is
	<i>Edu.</i> 11		Improved		influenced by agro ecology
	(1):3-5.		Maize		conditions, attitude toward
			Varieties and		production traits and
			Chemical		marketability of improved
			Fertilizers in		maize, how-to-knowledge to
			Mozambique.		apply the technology, and
					the role of extension in
					dissemination of improved
					technology.

			<u>-</u>		
2.	Indian		Adoption of		Found that Zero tillage
	Res. J.	0	Zero Tillage in		technology is very
	Ext.		Rice Based		conducive in increasing the
	<i>Edu.</i> 10		Cropping		rapeseed production and net
	(3):2-4.		System		income, its popularity
			in Manipur		would increase day by day
			State.		among the farming
					community in Manipur
					state. The adoption analysis
					of this study shows that
					government assistance has
					high significant impact on
					adoption.
3.	Indian-	200	Adoption gap	Mahadik	Found that the main reasons
	Coconut	9	in coconut	et al.	attributed by the coconut
	-		cultivation.		growers for this
	Journal.				phenomenon were lack of
	51 (12):				knowledge, shortage of
	14-17				labourers as well as high
					cost and unavailability of
					inputs. The adoption of
					recommended coconut
					cultivation practices in
					Konkan region Maharashtra
					was low, especially in the
					areas of fertilizer
					application and crop
					protection.

	1			1	1
4.	Agricult			Patil <i>et al</i> .	Found the variables of age,
	ure-	9	and adoption		farming experience, land
	Update.		of indigenous		holding, annual income,
	4 (1/2):		agricultural		social participation and
	100-102.		practices		knowledge have a highly
			followed by		significant positive
			tribals in		correlation to the adoption
			Melghat area.		of indigenous agricultural
					practices. The variables of
					education, occupation and
					extension contacts have a
					highly significant negative
					correlation to the adoption
					of the practices.
5.	Journal-	200	Determining	Ommani,	Results showed that
	of-	6	social	and	education level, farm size,
	Science-		economical	Chizari	land ownership, income,
	and-		and farming		social participation, social
	Technol		characteristics		status, social norms,
	ogy-of-		of wheat		technical knowledge, and
	Agricult		farmers		LISA knowledge were
	ure-and-		regarding		positively and significantly
	Natural-		adoption of		correlated with adoption of
	Resourc		low input		LISA practices. On the
	es.		sustainable		other hand, the correlation
	10 (1):		agriculture		of age, experience in
	107-120.		(LISA) (in		agriculture, and distance
			Khuzestan		between farm and service
			Province).		centres were negatively and
					significantly correlated with
					adoption of LISA practices

6.	Journal	199	Farmers	Abdul	et	Reported a significant
	of Rural	3	characteristics	al.		relationship between
	Develop		affecting			landholdings (farm size) and
	ment		adoption of			adoption, and did not
	and		agricultural			establish any relationship
	Administ		innovations.			between education and
	ration.					adoption. Education, size of
	Vol. xxv					holdings and accounted for
	(3): 111					significant variation in
	– 113.					communication behaviour
						of farmers.

2.3 Review on small holding enterprise

SL No	Source	Ye ar	Title	Author's	Key contents
1.	Indian- Coopera tive- Review. 47 (1): 55-62.	200 9		ari and Pillai	Found that the member of rubber producers' societies (RPSs) growers fared well in all these variables compared to non-members. It is clear that RPSs have a significant positive impact in imparting technical know-how on the small rubber growers and that the provision of technical know-how by the RPSs is effective in improving the productivity and reducing the cost of production of
					smallholder rubber growers.

2.	Natural-			Mesike	The probit model was used
	Rubber-	8		and Okoh	to determine the factors
	Researc		demand for		influencing the probability
	h.		credit among		that a farmer would
	21 (1/2):		rubber small		demand for credit in the
	32-37.		holders in Edo		study area. The model
			state, Nigeria.		revealed that the influence
					of factors such as farmers'
					experience, level of
					education and amount
					spent on farming inputs
					were highly significant.
3.	Agricult	200	A logistic	Iqbal <i>at el</i> .	Among a number of factors
	ural-	6	analysis of the		shown to significantly
	Systems.		factors		influence the decision to
	87 (3):		determining		intercrop tea with rubber,
	296-312.		the decision of		three were shown to
			smallholder		operate independently,
			farmers to		namely level of income,
			intercrop: a		source of income (i.e.
			case study		solely from own farm or
			involving		from farm plus additional
			rubber-tea		off-farm enterprises), and
			intercropping		availability of land
			in Sri Lanka.		considered suitable for tea
					cultivation.

4	4	200	E4	D 1	D1 41-4 Cl' 4 1
4.	Agro-		Factors	Barra et al	Found that conflict and
	Sur;	2	provoking		internal breakdown in rural
	30 (1): 1-		friction and		agricultural enterprises in
	11.		internal		Chile are caused by: lack
			breakdown in		of communication between
			rural		executives and workers;
			agricultural		uncontrolled socialization
			enterprises.		of problems; dissatisfaction
					within the group with
					regard to perceived
					achievements; and the
					perception that directorship
					efforts are not rewarded.
5.	Nigerian		Productive	Aihonsu	Results indicate that the
	-	9	capacity	and	highest capacity utilization
	Journal-		utilization in	Otubule	was about 59 per cent and
	of-Tree-		agro-industrial		the lowest was 32 per cent.
	Crop-		establishments:		Latex-mix, a major
	Researc		the case of a		ingredient in rubber
	<i>h</i> . 3 (1):		rubber		processing and amount of
	46-59.		processing		available labour, jointly
			enterprise in		explained about 92 per cent
			Ogun State		of the variation in capacity
			Nigeria.		utilization.
6.	Acta	198	Attitudes	Mydlak	The overall conclusion was
	Academi	9	towards society	-	that the low opinions as to
	ae-		among the		work and life on state
	Agricult		young workers		farms lead to a lack of
	urae-ac-		of state farm		community spirit among
	Technic		enterprises.		workers and little
	ae-		-		enthusiasm for social
	Olstenen				participation and working
	sis,-				for the good of society, the
	Oecono				state and the nation.
	mica;				
	(21): 57-				
	63.				

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2.4 Review on farming constraints

SL No.	Source	Year	Title	Author's	Key contents
1.	Indian Res. J.	2011	Adoption	Kumbhar	Found that 53.75 per
	Ext. Edu. 11(Behaviour	e	cent respondents had
	3): 41-44.		and	and	adopted wheat
			Constraints	Singh	production technology
			in Wheat		at higher level
			and Paddy		followed by 31.25 per
			Production		cent and 15.00 per cent
			Technologi		at medium and low
			es.		level. Also in paddy,
					60.00 per cent
					respondents had
					adopted the production
					technology at higher
					level followed by
					21.25 per cent and 18.75 per cent at
					18.75 per cent at medium and low level.
					The major constraints
					perceived by farmers
					in paddy were non-
					availability of rubber
					milling facility in their
					locality for rice
					processing, breakage
					of grain during
					milling/ processing,
					lack of transportation
					facilities, low cooking
					quality due to breakage
					of grains, lack of
					irrigation facility and
					lack of market facility.

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				I	
2.	Agricultural-	2009			Found that the "high
	Science-		faced by	al.	cost of PWPS" was
	Digest.		the		found to be the most
	29 (2): 27-29.		farmers' in		serious financial
			the use of		constraint as observed
			photovoltai		by both adopter and
			c water		non adopter
			pumping		respondents. "Lack of
			system in		extension literature"
			Haryana.		and "Lack of package
					of practices for PWPS
					irrigation farming
					system" were
					considered to be the
					major extension
					constraints among the
					adopter respondents.
3.	Indian Res. J.	2008	Farming	Sharma	Found that the most
	<i>Ext. Edu.</i> 8 (1)		System	et al.	important constraint
	: 57-59.		Based		expressed by the
			Constraints		respondents were non
			Faced by		availability of
			Farmers.		communication
					facility, financial crisis
					in the family, very low
					support price fixed by
					the Govt., higher input
					cost and inadequate
					and untimely rainfall.

Г.					
4.	Journal-of-	2007			Found positive and
	Cotton-			· al.	significant correlation
	Research-and-		adoption		related to IPM
	Development.		and		adoption namely, land
	21 (2): 230-		constraints		holding, socio-
	234.				economic status, land
					under cotton crop,
					information seeking
					behaviour, extension
					participation, risk
					orientation, economic
					motivation,
					management
					orientation and
					innovativeness.
5.	Research and	1989	Constraints	Ahmed	From the survey
	Development		leading to	and Gill	carried out in
	Reporter.6:1,		non-		Baramulla, Jammu
	190-194;3 ref.		adoption		&Kashmir, the major
			and partia		constraints to use of
			adoption of	f	herbicides in rice
			weedicides		farming were lack of
			for rice		finance, labour and
			crop in		technical help and high
			Jammu &		cost of herbicides.
			Kashmir.		

2.5 Review on Adoption, Discontinuance and rejection as a whole **Technology Socialization.**

SL No	Source	Yea r	Title	Author's	Key contents
110		1			
1.	Indian	200	A Logit	Padaria <i>et</i>	Found significant influence
	Res. J	9	Analysis of Bt		of size of holding, capital
	Ext.		Cotton		base, extension contact,
	Edu. 9		Adoption and		innovativeness,
	(2):39-		Assessment		achievement motivation,
	45.		of Farmers'		and perception about Bt
			Training		cotton on adoption decision
			Need.		of the farmers for Bt cotton,
					whereas in contrary to a
					priori expectation,
					information source
					pluralism, mass media
					exposure, social
					participation and education
					were not found to have a
					significant influence.
2.	Indian	200	Communicatio	Pal <i>et al</i> .	Found that the access of
	Res. J.	9	n Pattern in		different cosmopolite
	Ext.		Dry lands of		sources was low as
	Edu. 9		Uttar Pradesh.		compared to interpersonal
	(1):54-				localite sources. Possession
	57.				of land holdings and use of
					information sources are
					positively and significantly
					correlated, except in case of
					radio. It was found that
					educational level increases,
					the use of information
					sources.

2	1 1.	200	A .1 4	TZ1 1	December 1 1 1
3.	Indian	200	1		Found that the education
		9	Improved	al.	and socioeconomic status
	Ext.		Dairy Cattle		were found highly
	<i>Edu.</i> 9		Management		significant. Whereas social
	(2):80-		Practices		participation, utilization of
	84.		under		communication sources,
			Vidarbha		knowledge level, attitude
			Development		towards dairy farming,
			Programme		economic motivation and
			Package.		training on dairy farming
					were significantly correlated
					with adoption of improved
					dairy cattle management
					practices.
4.	World	200	Analysis of	Rezvanfar	The results of regression
	Applied	9	Factors	et al.	analysis shows that level of
	Science		Affecting		knowledge could explain
	S		Adoption of		83.5 per cent of the
	Journal		Sustainable		variation in the adoption
	. 6 (5):		Soil		level of sustainable soil
	644-		Conservation		conservation practices.
	651.		Practices		
			among Wheat		
L			Growers.		
5.	The	200	Farmers'	Ganpat et	A Likert-type scale, used to
	Journal	9	Attitude	al.	assess farmers' attitude,
	of		towards a		showed that overall, farmers
	Ågricult		Participatory		were generally favourable
	ural		Research		towards the process.
	Educati		Method Used		Differences in responses to
	on and		to Evaluate		attitudinal statements were
	Extensi		Weed		based mainly on farmers'
	on.15(Management		differing education levels.
	3): 235		Strategies in		-
	− 244.		Bananas		

6.	Journal	199	Extension	Onwubuya	Their major sources of
	-of-	9	potentials of	and Umeh	information were fellow
	Agricult		turkey		turkey farmers, neighbours,
	ure-		production		friends and veterinarians.
	Technol		among small		The major problems
	ogy-		scale farmers		hindering adoption were
	and-		in Nsukka		high cost of feed and lack of
	Educati		urban of		funds for establishment.
	on.		Enugu State,		
	4 (2):		Nigeria.		
	12-19b.				
7.	Journal	199	Adoption of		Found a positive and
	of	6	rice	Rao and	significant association
	researc		production	Rao	between age, farming
	h		technology by		experience, training
	ANGRA		tribal farmers.		received, socio-economic
	<i>U</i> 24				status, cropping Found a
	(1-2):				positive and significant
	21 - 25.				association between age,
					farming experience, training
					received, socio-economic
					status, cropping