## A STUDY ON CO-OPERATIVE BANK IN FINANCING AGRICULTURAL & ALLIED ACTIVITIES WITH SPECIAL REFERENCE TO DIMAPUR DISTRICT OF NAGALAND

By By: KEVIU SHUYA

Reg. No. 379/2009

SUBMITTED IN FULFILMENT OF THE REQUIREMENT OF THE DEGREE OF DOCTOR OF PHILOSOPHY IN AGRICULTURAL ECONOMICS

> NAGALAND UNIVERSITY HEADQUARTER:LUMAMI

## **Nagaland University**

School of Agricultural Sciences and Rural Development

Medziphema Campus-797106

Dr. Amod Sharma Asso. Prof. & Head Deptt. of Agril. Economics Nagaland University School of Agricultural Sciences and Rural Development Campus: Medziphema

## CERTIFICATE

This is to certify that the thesis entitled "A study on Co-operative Bank in financing Agricultural & Allied activities with special reference to Dimapur district of Nagaland" is an authentic record of the research work carried out by *Mr. Keviu Shuya* under my guidance and supervision for the award of the *Degree* of *Doctor of Philosophy* in *Agricultural Economics*, under Nagaland University.

I further certify that this Research work and investigation reported in the thesis has not previously formed the basis for the award of any other degree or diploma or fellowship or other similar title to any candidate of this or any other university. The assistance of all kinds received by the student has been duly acknowledged.

Date : 10<sup>th</sup> May 2013 Place : Medziphema

And Surt. 14 May /2013-(Dr. AMOD SHARMA)

Supervisor Associate Proffesor & Head

### DECLARATION

1, Mr. Keviu Shuya, do hereby declare that the thesis entitled "A study on Co-operative Bank in financing Agricultural & Allied activities with special reference to Dimapur district of Nagaland" submitted to the Nagaland University, for the award of the Degree of Doctor of Philosophy in Agricultural Economics is the record of original and independent research work done by me under the supervision and guidance of Or. Amod Sharma, Assoc. Prof. & Head, Department of Agricultural Economics, Nagaland University, School of Agricultural Sciences and Rural Development, Medziphema Campus, has not previously formed the basis for the award of any Degree or Diploma or Fellowship or other similar title to any candidate of this or any other university.

Date : 14<sup>th</sup> May 2013 Place : Dimapur

(KEVIU SHUYA) Ph. D Scholar

And Hump. 14 May 2013.

(Dr. AMOD SHARMA) Supervisor & Head Department of Agricultural Economics

# DEDICATED TO

# ALL MY FAMILY MEMBERS & FRIENDS

### ACKNOWLEDGEMENT

I wish to express my sincere and gratitude to my Supervisor Dr. Amod Sharma, Assoc. Prof. & Head, Department of Agricultural Economics, Nagaland University, School of Agricultural Sciences and Rural Development, for his sagacious, constant help, keen interest and valuable help in reading and commenting on the original manuscript in preparing this thesis.

My heartfelt thanks and respect to all my *Advisor Committee Members* - for their help, suggestions and encouragement throughout my study.

I sincerely thank the faculties of the Department of Agricultural Economics and the Librarians, Nagaland University, Medziphema Campus, the Branch Manager and staffs of Co-operative Bank, Dimapur for their dedicated help and nurturing me valuable knowledge rendered during my thesis work.

I am gratefully to *all my friends* especially *Visizolie Virie* and *Akito* **Zhimomi** for their constant companionship and enthusiasm in helping me throughout the period of my research work. For which I am highly indebted.

I convey sincere gratitude to Dr. Rokoneituo Nakhro, Asst. Prof., Department of Agricultural Economics, Nagaland University, my family members, relatives and all well-wishers for their ceaseless encouragement, immeasurable love, prayer and support which have enable me to carry on through thick and thin.

Above all, I thank the *Almighty God* for his love and blessings showered upon me and on those who help me in my research work.

(KEVIU SHUYA) Ph. D Scholar

Dated: Dimapur, the 14th May 2013

## CONTENTS

SN	CHAPTERS	PAGE
1.	INTRODUCTION	1-11
	1.1. History of co-operative banking in India	4
	1.2. Co-operative Bank Structure in India	6
	1.2.1. The Primary Agricultural Credit Societies	8
	1.2.2. The Central Co-operative Banks	8
	1.2.3. The State Co-operative Banks	8
	1.3. The need for Co-operative Bank	9
	1.4. Justification of the study	10
	1.5. Objectives of the study	11
2.	REVIEW OF LITERATURE	12-72
	2.1. Magnitude of finance made by Co-operative banks	12
	2.2. Utilization of bank loan and the problems faced by	30
	the borrowers in utilization of the loan	
	2.3. Repayment performance of the borrowers	37
	2.4. Impact of bank finance on the borrowers	48
	2.5. Problems faced by borrowers and the bank(ers)	54
	2.6. Suggestion and policy implication	61
3.	METHODOLOGY	73-79
	3.1. Research Design	73
	3.2. Sampling procedure	74
	3.2.1 Selection of blocks	75
	3.2.2 Selection of villages	75
	3.2.3. Selection of the respondents	75
	3.3. Techniques of data collection and period of inquiry	75
	3.4. Processing and Analysis of Data	76
4.	PROFILE OF THE STUDY AREA	80-84
	4.1. The State	80
	4.2. The Study Area	81
	4.2.1. Traditional, cultural and social identity of	81
	Dimapur district	
	4.2.2. Agriculture in Dimapur district	82
	4.2.3. Horticulture in Dimapur district	83
	4.2.4. Animal husbandry in Dimapur	83
5.	FINDINGS AND DISCUSSION	85-112
	5.1. Bank scenario in Nagaland	85
	5.1.1. Bank branch network in Nagaland	85

5.1.2. Credit, deposits and Credit-Deposit Ratio in	86
Nagaland	0.5
5.1.2.1.Credit(Loansand Advances)	86
5.1.2.2. Deposits	86
5.1.2.3. Credit-Deposit Ratio	87
5.1.3. Bank Annual Credit Plan in Nagaland	87
5.1.4. Status of Kisan Credit Plan (KCC) in Nagaland	88
5.1.5. Share of NABARD refinance in Nagai and	88
5.2. Status of Co-operative Bank in Nagaland	88
5.2.1. Management and Meetings	88
5.2.2. Performance of the SCB	89
5.2.2.1. Membership	89
5.2.2.2. Sources of Funds	89
5.2.3. Deployment of Loans and Advances by the SCB	91
5.2.4. Recovery performance of the SCB	91
5.3. Socio-economic status of the respondents	91
5.3.1. Distribution of respondents according to land holding	91
5.3.2. Distribution of respondents according to activity	92
5.3.3. Distribution of respondents' family	92
demography	00
5.3.4. Distribution of respondents' family educational status	92
5.3.5. Occupation of the respondents' family	93
5.3.6. Work force of the respondents' family	93
5.4. Land inventories of the respondents	94
5.4.1. Respondents' land holdings	94
5.4.2. Respondents' land use pattern	94
5.5. Cropping pattern of the respondents	94
5.5.1. Respondents' area and production of agricultural crops	94
5.5.2. Respondents' cost of cropping	95
5.6. Livestock inventories of the respondents	95
5.6.1. Respondents' livestock inventories	95
5.6.2. Respondents' cost of livestock production	96
5.6.3. Return from livestock production	96
5.7. Fish production of the respondents	97
5.7.1. Respondents' cost of fish production	97.
	97
5.7.2. Respondents' yield and income from fish production	-

5.8. Respondents' plantation	97
5.8.1. Respondents' cost of plantation	97
5.8.2. Respondents' returns from plantation	98
5.9. Expenditure and income of the respondents	98
5.9.1. Respondents' annual expenditure	98
5.9.2. Respondents' annual income	99
5.10. Employment generated	99
5.11. Impact of co-operative bank finance on	100
employment and income	
5.12. Resource use efficiency	101
5.12.1 Resource productivity	101
5.12.2 Resource use efficiency	104
5.13. Status of bank loan received by the borrowers	107
5.13.1. Loan received	107
5.13.2. Repayment performance of the borrower	
5.13.3. Borrowers utilization of bank loan	108
5.14. Problems faced by the borrowers	109
5.14.1. Problems faced in utilization of tiank loan	
5.14.2. Problems faced in acquiring bank loans	109
5.14.3. Other problems faced by the respondents	109
5.14.4. Ranking of constraints faced by borrowe	
5.15. Problems faced by the bank(ers)	110
5.15.1. Repayment/ Overdues	110
5.15.2. Distance and Supervision	111
5.15.3. Uneven distribution of borrowers	111
5.15.4. Unfaithful nature and misutilization of fi	unds 111
by the borrowers	
5.15.5. Untimely sutimission of form	112
5.13.6. Human resource and Logistic support	112
5.15.7. Productivity	112
6. SUMMARY & CONCLUSION	113-134
6.1. Summary of the findings	115
6.1.1. Status of bank network in Nagaland	115
6.1.2. Status co-operative tiank in Nagaland	116
6.1.3. Socio-economic status of the respondents	118
6.1.4. Land inventories of the respondents	119
6.1.5. Agriculture and allied activities of the respondents	120
6.1.6. Expenditure and income of the responde	nts 122

## LIST OFTABLES

Table No.	Title	In Between Pages
1.1	List of State Co-operative Banks in India	8-9
4.1	Nagaland Statistics	80-81
4.2	Dimapur Statistics	81-82
4.3	Area and Production of major Agricultural Crops in Dimapur district	82-83
4.4	Area and Production of major Horticultural Crops in	
5.1	Bank branch network in Nagaland	85-86
5.2	District-wise distribution of bank branches in Nagaland	85-86
5.3 Status of bank Loans and Advances from NABARD in Nagaland		86-87
5.4	Status of bank deposits in Nagaland	86-87
5,5	Status of bank Credit-Deposit Ratio in Nagaland	87-88
5.6	Distribution of bank Annual Credit Plan in Nagaland	87-88
5.7	Status of Kisan Credit Card (KCC) in Nagaland	88-89
5.8	Agency-wise share of NABARD refinance in Nagaland	88-89
5.9	Meetings held by the SCB during the past years	88-89
5.10	Co-operative Bank performance in Nagaland	90-91
5.11	Distribution of SCB annual flow of Loans and Advances	91-92
5.12	Recovery performance of the SCB	91-92
5.13	Distribution of respondents according to land holding	92-93
5.14	Distribution of respondents according to activity	92-93
5,15		
5.16	Distribution of respondents' family educational status	92-93
5.17.1	Distribution of respondents' family Primary Occupation	93-94
5.17.2	Distribution of respondents' family Secondary	
5.18		
5.19	Distribution of respondents' according to land holding	
5.20	Distribution of respondent's land use pattern	
5.21	Distribution of respondents' cropping area and	

5.22	Distribution of respondents' cost of cropping	95-96
5.23	23 Distribution of respondents' livestock inventories	
5.24	Distribution of respondents' cost of livestock production	
5.25.1	Distribution of respondents' return from livestock production	
5.25.2	Distribution of respondents item-wise return from animal husbandry	96-97
5.26	Distribution of respondents cost of fish production	97-98
5.27	Distribution of respondents yield and income from fish production	97-98
5.28	Distribution of respondents cost of plantation	98-99
5.29	Distribution of respondents average return from	
5.30	Distribution of the respondents annual expenditure	98-99
5.31	Distribution of the respondent annual income	99-100
5.32.1	Distribution of respondents' employment generated in	
5.32.2	Distribution of respondents' employment generated in numbers	99-100
5.33	Impact of co-operative bank finance on income and employment status	100-101
5.34.1	Etasticity Co-efficient of different enterprises on	
5.34.2	Elasticity Co-efficient of different enterprises on non-	
5.35.1	Marginal Value Product analysis of beneficiaries' farm size groups	106-107
5.35.2	Marginal Value Product Analysis of non-heneficiaries'	
5.36	Distribution of Joan received by the borrowers	107-108
5.37	Distribution of borrowers' loan repayment	107-108
5.38.1	Distribution of borrowers' utilization of bank loan	108-109
5.38.2	Distribution of borrowers' overall utilization of bank loan	108-109
5.39	Problems faced in utilization of bank loan	109-110
5.40	Problems faced in acquiring bank loan	
5.41	Other problems faced by the borrowers	109-110
5.42	Ranking of constraints faced by the borrowers during acquisition of co-operative bank finance	110-111

# LIST OF FIGURES

Fig. No.	Títle	In Between Pages
1.1	Co-operative bank structure in India	6-7
4.1	Map of Nagaland	80-81
4.2	Map of Dimapur district	81-82
5.1	Status of bank branch network in Nagaland	85-86
5.2	District-wise distribution of bank branches in Nagaland	85-86
5.3	Status of Credit-Deposit growth rate in Nagaland	87-88
5.4	Distribution of sector-wise share of Annual Credit Plan in Nagaland	87-88
5.5	Kisan Credit Card scheme achievement in Nagaland	88-89
5.6	Share of NA BARD refinance during 2010-11	88-89
5.7	Comparative position of the SCB	90-91
5.8	Status of share capital of the SCB	90-91
5.9	Distribution of the SCB loan	91-92
5.10	Recovery percentage of the SCB	91-92

## **ABBREVIATION**

₹	- Ra in Indian Rupees
%	- Percentage
ACP	-Annual Credit Plan
Agri/Agril.	- Agriculture
AIRCSC	- All India Rural Credit Survey Committee
Anon.	- Anonymous
Approx.	- Approximately
ARF	- Automatic Refinance Facility
ASL	- Altitude above Sea Level
CBs	- Commercial Banks
CCBs	- Central Co-operative Bank
CDF	- Co-operative Development Fund
Co-op	- Co-operative
DCCB	- District Central Co-operative Bank
Fig.	- Figure
GDP	- Gross Domestic Product
Gol	- Government of India
Govt.	- Government
На	- Hectare
HRD	- Human Resource Development
KCC	- Kisan Credit Card
Kg	- Kilogram
LTCCS	- Long-Term Co-Operative Credit Structure
MT	- Metric Ton
MT Loan	- Medium-Term Loan

MVP	- Marginal Value Product
NA	- Not Available
NABARD	- National Bank for Agricultural and Rural Development
NAFSCOB	- National Federation of State Cooperative Banks Ltd.
NER	- North East Region
Nos.	- Numbers
NPA	- Non-Performing Asset
NSCB	- Nagaland State Co-operative Bank
NSTFDC	- National Schedule Tribe Finance and Development Corporation
OLS	-Ordinary Least Square
PACs	- Primary Agricultural Credit Societies
PCARDB	- Primary Co-Operative Agriculture And Rural Development Bank
Qt	- Quintal
RBQ	- Rank Based Quotient
RRB	- Rural Regional Bank
SAO	- Seasonal Agricultural Operation
SCARDB	- State Co-Operative Agriculture And Rural Development Bank
SFDA	- Small Farmers Development Agency
SHG	- Self Help Group
SN	-Serial Number
StCB/ SCB	-State Co-operative Bank
STCCS	- Short-Term Co-operative Credit Structure
Viz.	- Namely/ that is to say/ as follows

# CHAPTER-I

# INTRODUCTION

### CHAPTER – I

#### INTRODUCTION

Agriculture is the mainstay of Indian economy not only in terms of contribution to the gross domestic product but also the people dependent upon it. A high level growth of agriculture is essential both for achieving the objective of food security at macro and micro levels and also to alleviate poverty in India. Approximately 15.7 per cent (at current price) of the GDP is contributed by agriculture and allied sector, with about 52.1 per cent of the country's population dependent on this sector and accounts for about 12 per cent share of the country's exports (Anonymous, 2010)<sup>1</sup>.

In ancient times, agriculture was considered as a prestigious, notable and honourable occupation. In the last few years, the Indian economy has emerged as one of the fastest growing economies in the world. However, the vulnerability of the Indian economy with respect to the performance of the agricultural sector despite other macroeconomic indicators and sectors gaining in strength is well known. Many economist and policy-makers believe that the future growth of the domestic economy, to a large extent, will depend on the robust performance of the agricultural and rural sector. The manufacturing and service sectors cannot sustain the economy's growth if the rural sector underperforms.

Even today it is a common saying that the real India lives in villages. The economy of India is a rural based with more than 70 per cent of the population depends directly or indirectly on agriculture and its allied enterprises for their livelihood. India owns one of the largest livestock populations in the world. The animal husbandry sectors have been projected as the subsidiary source of income and employment generation using the limited available resources. Therefore, it has a tremendous scope to contribute towards the socio-economic aspect of the rural farmers.

 $\sim 1 \sim$ 

The challenges faced by our country in securing food as well as nutritional security for a fast growing population need an integrated approach for livestock farming and thereby providing employment opportunities to seasonally employed rural farmers and supplementary income to improve their living standards.

The role of banks in rural upliftment and the effectiveness of banks as a tool for socio-economic, and over all development of the rural people consists of a broad spectrum. The success or failures of any enterprises depends to a large extent on the availability of finances.

The contribution of the banking and financial sector to the current economic growth of the Indian economy is very significant. However, the access of banking services to the rural, agriculture and the common man in general is not as promising. As V. Leeladhar (Deputy Governor, RBI, on the occasion of the Commemorative lecture at the Fedbank Hormis Memorial Foundation, Ernakulam) said "Despite making significant improvements in all the areas relating to financial viability, profitability and competitiveness, there are concerns that banks have not been able to include a vast segment of the population, especially the underprivileged sections of the society, into the fold of basic banking services". The focus of Indian banks on financial inclusion i. e; delivery of banking services at an affordable cost of the low-income groups has been dismal. In India, the focus of the financial inclusion at present is more or less confined to ensuring a bare minimum access to a savings bank account without frills to all. Having a current account/savings account on its own, cannot be regarded as an accurate indicator of financial inclusion.

The rural population in India suffers from a great deal of indebtedness and is subject to exploitation in the credit market due to high interest rates and the lack of convenient access to credit. Rural households need credit for investing in agriculture and smoothening out seasonal fluctuations in earnings. Since cash flows and savings in rural areas for the

~2~

majority of the households are small, rural households typically tend to rely on credit for other consumption needs like education, food, housing, household functions, etc. Rural households need access to financial institutions that can provide them with credit at lower rates and at reasonable terms than the traditional money-lenders and thereby, help them avoid debt-traps that are common in rural India.

Micro-finance is a broad term that includes deposits, loans, payment services and insurances to the poor. The concept of micro-finance and micro-credit are used interchangeably. But micro-credit does not include savings; hence micro-finance is a more appropriate term (Vaibhav, 2012). The concept is understood as providing poor families with very small loans to help them engage in productive activities or grow their small businesses. A success indicator of micro-finance lies in the 'credit-plus' approach, where the focus has not only been on providing credit, but to integrate it with other developmental activities. Today micro-finance is very much in the agenda of public policy and it has been increasingly used as a vehicle for reaching the otherwise unreachable poor in the country. One such agency that provides micro-finance is the co-operative bank.

A co-operative bank is a financial entity which belongs to its members, who are at the same time, the owners and the customers of their bank. Co-operative banks are often created by persons belonging to the same local or professional community or sharing a common interest. Co-operative banks generally provide their members with a wide range of banking and financial services like loans, deposits, banking accounts etc. Co-operative banks differ from stockholder banks by their organization, their goals, their values and their governance. In most countries, they are supervised and controlled by the banking authorities and have to respect prudential banking regulations, which put them at a level playing field with stockholder banks. Depending on countries, the control and supervision can be implemented directly by state entities or delegated to a co-operative federation or central body (Kanchu, 2012).

~ 3~

#### **1.1. HISTORY OF CO-OPERATIVE BANKING IN INDIA**

The origins of the co-operative banking movement in India can be traced to the close of the nineteenth century when, inspired by the success of the experiments related to the co-operative movement in Britain and the co-operative credit movement in Germany, such societies were set up in India. Co-operative banks are an important constituent of the Indian financial system. They are the primary financiers of agricultural activities, some small-scale industries and self-employed workers. The Anyonya Co-operative Bank in India is considered to have been the first co-operative bank in Asia (Anonymous, 1999).

Co-operative banks have completed 100 years of existence in India. The co-operative banks in India form an integral part of our money market today. The history of co-operative banks goes back to the year 1904. Towards the end of the 19th century, the problems of rural indebtedness became acute and the passing of agricultural land from the peasants to the moneylenders became a common phenomenon. Sir Frederic Nicholson a British Officer in India suggested 'Find Raiffersen in India', i.e. to introduce Raiffersen model of German agricultural credit (Huss, 1924).

In 1904, a bill was drafted by Sir Edward Law in 1901 with the objectives of assisting farmers, artisans and low-paid employees with credit. As a follow-up, the first Co-operative Society Act of 1904 was formally launched in India and enacted to enable formation of "agricultural credit co-operatives" in the villages under Government sponsorship to encourage co-operative movement in India (Goel, 2006). In 1914, the Maclagen committee envisaged a three tier structure for co-operative banking viz., Primary Agricultural Credit Societies (PACs) at the grass root level, Central Co-operative Banks at the district level and State Co-operative Banks at state level or Apex Level (Gurusamy, 2009a).

The development of co-operative banks from 1904 to 1951 was a disappointing one. The first phase of co-operative bank development was

~4~

the formation and regulation of co-opefative society. The constitutional reforms which led to the passing of the Government of India Act in 1919 transferred the subject of "Co-operation" from the Government of India to the Provincial Government. The Government of Bombay passed the first State Co-operative Societies Act in 1925 "which not only gave the movement, its size and shape but was a pace setter of co-operative activities and stressed the basic concept of thrift, self-help and mutual aid" (Anonymous, 2012a)<sup>1</sup>.

In the formative stage Co-operative Banks were Urban Co-operative Societies run on community basis and their lending activities were restricted to meeting the credit requirements of their members. There was the genefal fealization that urban banks have an important role to play in economic construction. This was asserted by a host of committees. The Indian Central Banking Enquiry Committee (1931) felt that urban banks have a duty to help the small business and middle class people (Anonymous, 2012b)<sup>1</sup>.

The establishment of the Reserve Bank of India and the Agricultural Credit Department in 1935 was an important event. As a result, the movement gained great momentum.

The concept of Urban Co-operative Bank was first spelt out by Mehta-Bhansali Committee in 1939 which defined an Urban Co-operative Bank as a Primary Co-operative Bank other than a Primary Co-operative Society, wefe made applicable in 1966. It recommended that, those societies which had fulfilled the criteria of banking should be allowed to work as banks and recommended an Association for these banks (Gurusamy, 2009b).

The Co-operative Planning Committee (1946) went on record to say that urban banks have been the best agencies for small people in whom joint stock banks are not generally interested. The Rural Banking Enquiry Committee (1950), impressed by the low cost of establishment and

~ 5~

operations recommended the establishment of such banks even in places smaller than taluka towns. The real development of co-operative banks took place only after the recommendations of All India Rural Credit Survey Committee (AIRCSC), which were made with the view to fasten the growth of co-operative banks in India. The co-operative banks were expected to perform duties, namely, extend all types of credit facilities to customers in cash and kind, advance consumption loans, extend banking facilities in rural areas, mobilize deposits, supervise the use of loans etc. (Kainth, 1998).

Then the Multi-State Co-operative Societies Act 2002 (New Version) came into force with effect from August 19, 2002. The item "Co-operative Societies" is now a State Subject of the State List of the Constitution of India (Anonymous, 2012)<sup>2</sup>.

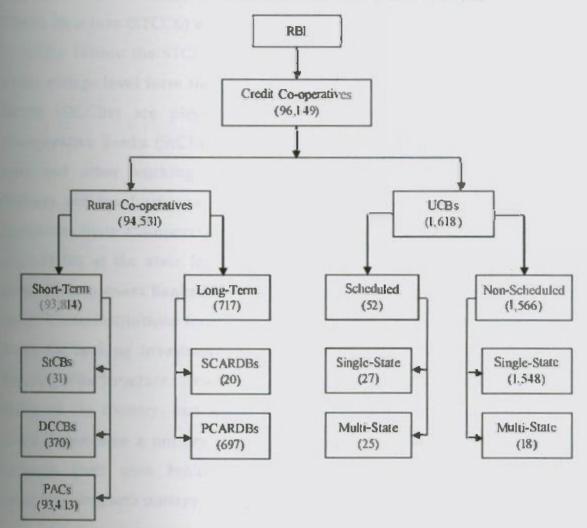
While the co-operative banks in rural areas mainly finance agricultural based activities including farming, cattle, milk, hatchery, personal finance etc. along with some small scale industries and self-employment driven activities, the co-operative banks in urban areas mainly finance various categories of people for self-employment, industries, small scale units, home finance, consumer finance, personal finance, etc. (Gupta and Jain, 2012a)

Though they are registered under the Co-operative Societies Act of the Respective States (where formed originally) the banking related activities of the co-operative banks are also regulated by the Reserve Bank of India. They are governed by the Banking Regulations Act 1949 and Banking Laws (Co-operative Societies) Act, 1965 (Gupta and Chopra, 2008).

#### **1.2. CO-OPERATIVE BANK STRUCTURE IN INDIA**

The co-operative banking structure in India comprises of two main components, viz., urban co-operative banks and rural co-operative credit institutions. While urban co-operative banks have a single tier structure,

~6~



#### **CO-OPERATIVE BANK STRUCTURE IN INDIA**

StCBs: State Co-operative Banks; DCCBs: District Central Co-operative Banks; PACS: Primary Agricultural Credit Societies; SCARDBs: State Co-operative Agriculture and Rural Development Banks; PCARDBs: Primary Co-operative Agriculture and Rural Development Banks;

Note: 1. Figures in parentheses indicate the number of institutions at end-March 2012 for UCBs and at end-March 2011 for rural co-operative.

2. For rural co-operatives, the number of co-operatives refers to reporting co-operatives.

(Source: Reserve BankofIndia, 2012)

Fig. 1.1. Co-operative bank structure in India

rural co-operatives have a complex structure. Rural co-operative credit institutions have two distinct structures, viz., the Short-Term Co-operative Credit Structure (STCCS) and the Long-Term Co-operative Credit Structure (LTCCS). Within the STCCS, Primary Agricultural Credit Societies (PACs) at the village level form the base level, while District Central Co-operative Banks (DCCBs) are placed at the intermediate level, and the State Co-operative Banks (StCBs) at the apex level. The STCCS mostly provide crop and other working Capital loans primarily for a short period to farmers and rural artisans. The long-term structure of rural co-operatives comprises State Co-operative Agriculture and Rural Development Banks (SCARDBs) at the state level and Primary Co-operative Agriculture and Rural Development Banks (PCARDBs) at the decentralized district or block level. These institutions focus on providing typically medium to long-term loans for making investments in agriculture, rural industries, and lately housing. The structure of rural co-operative banks is not uniform across the states of the country, and varies significantly from one state to another. Some states have a unitary structure with the state level banks operating through their own branches, while others have a mixed structure incorporating both unitary and federal systems (Anonymous, 2007).

The structur e of commercial banking is of branch-banking type; while the co-operative banking structure is a three tier federal one.

Primary Credit Societies at the bottom, at village level.

Central Co-operative Bank at the Intermediate Level, works at the district level

• State Co-operative Bank at the top, works at state level

~7~

#### 1.2.1. The Primary Agricultural Credit Societies

A primary society is an association of borrowers and non-borrowers residing in a particular locality and taking interest in the business affairs of one another. As membership is practically open to all inhabitants of a locality, people of different status are brought together into the common organization. The society may be started with ten or more persons of a village.

#### 1.2.2. The Central Co-operative Banks

A Central Co-operative Bank is a federation of primary societies in a specified area. Where membership of a Central Co-operative Bank is restricted to primary societies only, it is known as a 'banking union'. Nowadays, individuals are also admitted as members of almost all Central Co-operative Banks. Central Co-operative Banks are generally situated at the headquarters of district and have on their boards of management, individuals of sufficient influence and business capacity in addition to representatives of primary societies. The CCBs form an important part in the short-term structure of Co-operative Credit Institutions.

#### 1.2.3 The State Co-operative Banks

These are State Co-operative Banks (SCB), Central Co-operative Banks (CCB) and Primary Co-operative Banks (PCB). The SCB is an apex level bank for a state. CCBs are apex level banks for each district. PCBs are rural or Semi-Urban Level Co-operative Banks. These are financial institutions whose primary objects are to provide credit facilities, i.e., loans and advances to its member only. These societies are formed in large organizations or Government Departments or at certain regions. The members are those working in the particular organization/ region. They

SN	Name of the State Co-operative Banks
1.	The Andaman and Nicobar State Co-operative Bank Limited
2.	The Andhra Pradesh State Co-operative Bank Limited
3.	The Arunachal Pradesh State Co-operative Apex Bank Limited
4.	The Assam Co-operative Apex Bank Limited
5.	The Bihar State Co-operative Bank Limited
6.	The Chandigarh State Co-operative Bank Limited
7.	The Delhi State Co-operative Bank Limited
8.	The Goa State Co-operative Bank Limited
9.	The Gujarat State Co-operative Bank Limited
10.	The Haryana State Co-operative Apex Bank Limited
11.	The Himachal Pradesh State Co-operative Bank Limited
12.	The Jammu and Kashmir State Co-operative Bank Limited
13.	The Karnataka State Co-operative Apex Bank Limited
14.	The Kerala State Co-operative Bank Limited
15.	The Madhya Pradesh Rajya Sahakari Bank Maryadit
16.	The Maharashtra State Co-operative Bank Limited
17.	The Manipur State Co-operative Bank Limited
18.	The Meghalaya Co-operative Apcx Bank Limited
19	The Mizoram Co-operative Apex Bank Limited
20.	The Nagaland State Co-operative Bank Limited
21.	The Orissa State Co-operative Bank Limited
22.	The Pondicherry State Co-operative Bank Limited
23 .	The Sikkim State Co-operative Bank Limited
24	The Tamil Nadu State Apex Co-operative Bank Limited
25.	The Tripura State Co-operative Bank Limited
26.	The Uttar Pradesh Co-operative Bank Limited
27.	The Punjab State Co-operative Bank Limited
28	The Rajasthan State Co-operative Bank Limited
29.	The West Bengal State Co-operative Bank Limited
30.	The Chhattisgarh Rajya Sahakari Bank Maryadit
31.	The Uttaranehal Rajva Sahakari Bank Limited

(Source: NAFSCOB, 2012)

10.000

collect subscriptions, deposits, etc., from members and loans from co-operative banks and extend credit facilities to its members only.

The RBI has overall control on all financial institutions operational guidelines and controls over co-operative banks are exercised by NABARD. The Reserve Bank assists the co-operative structure by providing concessional finance through NABARD in the form of General Lines of Credit for lending to agricultural activities. Thus, the whole system is integrated with the Banking structure of the country.

#### **1.3. THE NEED FOR CO-OPERATIVE BANK**

Agriculture is far the most important sector of the Indian Economy and there is a need for rapid growth of production and productivity, which is crucial for economic development.

In the last few years the farmers are experiencing a rapid change where, increased use of capital and credit has become a common phenomenon rather than an exception. These further increase the overall capital as well as credit requirement of the farmers where finance is being considered as the life blood of all economic activities. The increased pressure of population and the need to raise living standard has created the scope for better financial institutions and better bank networks. To meet the challenges ahead, greater emphasis and facilities to boost them up has been underlined by the Bankers and the policy makers (Singha, 2010).

India having one of the largest networks of Co-operative Banks plays a key role in the development of the rural sector in general and agriculture in particular. They are engaged in several economic activities such as disbursement of credit, distribution of agricultural inputs and in arranging storage, processing and marketing of farm produce. Over the years, although there is massive expansion of financial infrastructure including

~ 9 ~

agricultural financing in the country, the pace of development in the Northeastern India is however, not up to the mark (Singha, 2010b).

Agriculture along with livestock rearing and other allied agricultural activities is a common aspect seen in most tribal houses of India and plays an important part, especially in the lives of the North-Eastern Hill Region people. Many rural development programs had been launched to uplift the rural people. These rural development programs are linked with bank credits, which enabled the poor people to obtain loans and undertake productive enterprises. Since agricultural operations are seasonal, family labour may become ideal, leading to decreased labour efficiency and unemployment problems. Agriculture and allied activities helps to supplement the farm income as well as utilizes the surplus resources of the farm. To remove or suppress such problems, one important measure is financing them to take up productive enterprises through banking sectors.

Although a few studies on macro aspects of agricultural credit have been undertaken, yet specific studies to highlight the status of agricultural finance in the Northeastern India is lacking.

#### **14. JUSTIFICATION OF THE STUDY**

In Dimapur district of Nagaland, till today no concrete research has been carried out to investigate the credit needs, credit utilization and the repayment problems faced by the borrowers as well as the impact of credit.

The results of the study will give a general idea of the nature of credit disbursement and utilization. It will also highlight the impact on their employment and their income. Further the study may also help in analyzing the problems and constraints faced by the banker as well as the borrowers in regards to agricultural & allied activities borrowings. Based on the study it would enable the bankers, planner, Central Government, Nagaland State Government, lending institutions and other policy makers to frame suitable policies for strengthening the rural credit system in remote or hill tribal area.

#### **1.5. OBJECTIVES OF THE STUDY**

The broad objective of the study is to examine the magnitude of financing made by Co-operative Bank on Agricultural and Allied activities and the impact on the borrowers in promoting productivity, income generation and the employment generation in the study area. Also, to consider the impact of credit on production potential and all-round development of rural people, the present study entitled, "A study on Co-operative Bank in financing agricultural and allied activities with special reference to Dimapur district of Nagaland" with the following specific objectives was conducted:

- 1. To study the magnitude of finance made by Co-operative banks,
- 2 To study the utilization of bank loan and the problems faced by the borrowers in utilization of the loan,
- 3. To study the repayment performance of the borrowers,
- To study the impact of bank finance on productivity, income and employment,
- 5. To study the problems faced by borrowers in acquiring bank loans and
- To study the problems faced by borrowers and also problems faced by bankers.

CHAPTER- II

# REVIEW OF LITERATURE

and a second secon

### CHAPTER – II

### **REVIEW OF LITERATURE**

The banking sector has witnessed a huge growth in the recent years. However, despite such a growth, the credit flow by banks to the rural and agricultural sectors remains dismal, which, more or less, has resulted in financial exclusion of the rural masses. A comprehensive review of literature is an integral part of any investigation, as it not only gives an idea of the work done in the past and assists in delineation of problem area, but also provides basis for interpretation and discussion of findings. Available literature on the subject is briefly presented in chronological order in six sub headings as follows:

#### 2.1. Magnitude of finance made by Co-operative banks:

Misra, 1970 in his study showed that 25 per cent of the total borrowings was meant for capital expenditure, 17 per cent for current farm expenditure, 42 per cent for family consumption, 4 per cent for repayment of old debts and 12 per cent for social obligation. He reported that the private agencies were the only source of agricultural credit in the Kashi Vidyapith of Varanasi, being dominated by money-lenders accounting for 81 per cent of the total framer's loans followed by relatives (17 per cent) and others (12 per cent).

Subramanian et al., 1971 studied the credit needs and availability to the farmers and observed that out of total borrowings, co-operatives shared about 62 per cent, Commercial banks 13 per cent and the private sources the rest. However, the co-operative loans were found to be confined to large farmers alone. All these indicate the dominance of institutional credit in the area which was biased towards large farmers. Rao, 1974 opined that if the DCCBs and PACSs are not doing well for the distribution of agricultural loan and deposit mobilization, the farmers have to go other financial institutions who may charge slightly more but who preserve an assurance for the services. In a good number of cases, the demand of agricultural loan from the co-operative banks is more than the non-cooperative banks. There are ample evidences of the cases where the unduly heavy overhead charges on agricultural loan have been claimed by the District Central Co-operative Banks and Primary Agricultural Societies which is basically responsible for raising the interest among the non-cooperative based financial institutions. The private dealers are capable of influencing the farmers at a good rate of interest and services.

Bhatia, 1975 reported that the farm borrowing was higher on the large farms, but the hectare borrowing was higher in small farms. The commercial banks usually neglect the small farms. The investment per hectare of operated land was higher on large farm. The co-operative societies were active and provided 40 per cent of the credit to both types of farms.

Deo, 1976 studied the problems of agricultural credit allocation and emphasized that the problem of credit allocation in agriculture was immense and required attention. He suggested that financial experts, social scientists, and team of bank personnel have to work together and for better the expansion of credit.

Dhawan and Kahlon, 1978 studied and examine the adequacy of credit supplied by different institutions and the economic rationale of credit obtained for different inputs by the small farms selected from seven villages in Ferozepur district of the Punjab related to the year 1974-75. The analysis of capital and credit needs showed that even in the existing plan the small farmers needed 76.00 per cent of cash over their owned capital to run the farm business successfully. The analysis of optimal plans developed at improved levels of technology indicated an increase of 278.00

~13~

per cent in credit requirements over the farmer's own capital. The requirement of cash increased further to 594.00 per cent with the incorporation of water purchasing activity in the analysis. The functional analysis showed that the small farmers were rational in making investment on implements and machinery, milch animals, seeds, manures and fertilizers.

Haque and Maji, 1978 studied the changes in the distribution of co-operative credit in different states of India during the year 1965-75. The observed change in the structure and composition of co-operative credit over the period of study is consistent with the pre-requisites for the success of new technology. Marginal and small farmers with less than two hectares of land received about one-third of the medium and long-term credit advanced by the central land development banks in 1974-75. The effect of credit advanced for purchase of fertilizers was found to be positive in 10 out of 16 states. The credit supply in 7 out of 16 states did not increase in real terms.

Singh et al., 1978 studied the pattern of flow of credit in Bichpuri development block of Agra district in Uttar Pradesh and found that the pattern of financing agriculture was similar both at the national and district levels. The proportion of bank finance to agriculture showed a steady but slow increasing trend over a period of four years. The overall share of large farmers in total finance to agriculture was much higher as compared to the small and medium farmers in all the years (1972 to 1977). The share of small farmers showed an increasing trend mainly during the years 1976 and 1977 when deliberate efforts were made to direct the flow of bank credit in favour of small farmers.

Desai, 1979 studied the performance of the formal rural financial market in India taking into consideration three different aspects: sectoral allocation of credit and mobilization of deposits, rural loan-term structure, default rate and the distribution of rural credit and purchasing power of

~ 14~

## 1119389

rural credit and the distribution of benefits arising from the concessional lending rates among different sized farms. The study revealed that the share of rural credit had increased to around 28.00 per cent to 30.00 per cent from about 20.00 per cent in the early 1960s. The share of rural deposits had also grown to 33.00 per cent in 1970s (from 25.00 per cent in the 1960s). Since 1973-74 both rural credit and rural deposits have stagnated and also the percentage contribution of rural credit to net domestic product from agriculture. The purchasing power of both rural credit and deposits had decreased more than that of total credit and deposits.

Hajela, 1979 reported that despite 28 years of planning, agricultural credit is dominated by unorganized private credit institutions or money lenders. The need for organized financing institutions such as co-operative credit societies, commercial banks and regional rural banks is emphasized. The credit gap which exists is very important in view of the need for agriculture to produce a marketable surplus. On the basis of the analysis it was concluded that the co-operative credit societies are the only institutions capable of breaking the money lender's monopoly on the agricultural market.

Kainth, 1979 studied the probable contribution of the long-term co-operative credit to farmers in Punjab. Per hectare flows of co-operative credit varied in the range of Rs. 17.71 - Rs. 34.37, Rs. 25.99 - Rs. 51.85, and Rs. 39.92 - Rs. 67.74 respectively in terms of total cropped area, net sown area and net area irrigated. Per holding flow of co-operative credit varied in the range of Rs. 5,258.33 to Rs. 9,011.02 with a coefficient of variation of 20.03 per cent. Per hectare and per holding flows of the co-operative credit showed an increasing trend.

Kharat and Tripathi, 1979 in their study showed that the co-operative bank lends out more and has a greater impact because of its easier policy than the other Nationalized Bank. This was found from a study of 60 borrowers equally distributed between the two banks.

Bagchi and Sain, 1980 studied the extent of recovery, overdues, outstanding loans and default ratio for different types of loans from credit institutions. Loans advanced by the bank had enabled the farmers to purchase seeds, fertilizers, insecticides etc., to meet the wages for hired labour, cost of irrigation and to procure farm implements and machinery. Most loans were advanced for the cultivation of wheat followed by summer paddy and jute respectively. Marginal and small farmers were relatively more punctual in repaying the loans. A major portion of the medium term loans were advanced for minor irrigation pump-sets and shallow tubewells.

Wali, 1980 studied the changes in co-operative policy in relation to provision of credit to farmers in India since 1956 and examined the reasons for the failure of the co-operative credit structure to meet the needs of the small farmers and concluded that there is a need for streamlining the credit co-operatives to cater to the needs of the rural poor.

Rao and Rao, 1983 reported that the institutional agencies were the most popular sources of credit as they supplied about 70 per cent of the total borrowings in the study area. In regards to different size groups the share of institutional credit was highest on medium farms and lowest on marginal farms.

Singhal and Singhal, 1984 reported that, unless bank branch expansion in rural areas match the expansion in size of the rural population in the decade ahead, the population per branch will go up, due to overwhelming increase in population growth. Because, if the rural population per branch increases continuously then the rate of credit flow per capita goes on decreasing and there will be inadequate credit flow to the rural people which hampers the possibility of taking up any reproductive activities as a result of which the income level will be reduced drastically.

~16~

So there should be adequate number of bank branches with sufficient amount of loanable funds to meet the credit needs of the rural people.

Venkitesan, 1984 in his study revealed that PACS working on profit had a strong resource base, high rate of deposit mobilisation, low borrowings, high distribution of agricultural advances and high rate of loan recovery compared to those incurring losses. The study also identified the major factors contributing to the resources of the PACS, such as cropping pattern and occupational structure of the members, saving habits of the people, satisfaction to the beneficiaries arising from simplified loaning procedures and active participation of members in the affairs of the society.

Varma, 1985 observed that the overall performance of the CCBs in Maharashtra is a mixed one. In his opinion, their weaknesses are overdue, poor recoveries, insufficient management, inadequate and untrained staff, lack of supervision, poor deposits, defective loan policies, defective book adjustments, inadequate bad and doubtful reserves, etc.

Winfred, 1986 studied the funds management of CCBs in India and found out that mobilisation of resources is one of the core functions of the CCBs. He noted that the CCB have to tap the rural resources not only to keep the credit system in an efficient order but also to reduce their dependence on outside borrowings. He opined that co-operative capital should be employed judiciously and in the most economical and fruitful manner so as to derive maximum benefits with minimum expenditure. The efficient utilisation of resources calls for a developmental approach in the diversified direction without sacrificing the main principles of banking, namely liquidity, safety and profitability. Lastly, he reported that better deployment of funds not only improves the image and income earning capacity of the banks but also reduces regional and functional imbalances.

Paul, 1987 studied the operational efficiency of Ernakulam DCB and was of the opinion that the bank was efficient in the mobilisation of funds which is evident from owned funds to borrowed funds ratio and the borrowed funds to working capital ratio. It was however found to be inefficient in the deployment of funds. The ratio of net profit to own funds ratio showed a declining trend due to lack of efficient utilisation of funds. The liquidity position of the bank was reported to be very sound. He was of the opinion that the bank can improve its position by finding out new avenues for investment, better cash management and by taking all efforts to curtail the overdue position of the bank and by forming an extension wing to study the problems of its member societies.

Pandey and Kumar, 1989 studied the nature and growth of the co-operative credit in different states in India over the period 1970-1981. They noted the disparities in the disbursement of co-operative credit to different categories of holdings. It was observed that, although there was an increase in the amount of loan disbursement by the co-operative societies, their number has been declining over the year. On a per hectare basis, loan advances to small and marginal farmers are respectively higher than for farms above 2 hectares, but on a per hectare basis, the situation is reverse. Disparity in the flow of credit on a per hectare basis has been increasing.

Patel, 1997 stated that during the last fifty years, the country's rural banking system witnessed a spectacular growth with the number of rural credit outlets crossing the 1,50,000 mark. The credit disbursements have also increased tremendously. At the same time, several unhealthy trends have also set in this sector. In view of the challenges posed by the Ninth plan and ensuring third millennium, it called for overhauling the rural credit structure to make it vibrant, viable and dynamic.

Puhazhendhi and Jayaraman, 1999 stated that development of the rural credit delivery system in the country has metamorphosed from monopoly of the co-operatives to the induction of commercial banks and establishment of Regional Rural Banks for improving the outreach and ensuring access to credit in the rural areas. With the implementation of financial sector reforms, the access was on, ensuring the financial health of the system. Innovations in rural credit delivery had an impact on agricultural production and reduction of poverty due to increased flow of credit. Accelerating the pace of capital formation in agriculture, infrastructure development with focus on transportation and marketing, ensuring credit discipline would enable the rural sector to absorb more credit form institutional sources. The focus should be on strategies that are required for tackling issues such as sustainability and viability, operational efficiency, recovery performance, small farmer coverage and balanced sector development.

Satyasai and Badatya, 2000 reported that for restructuring the co-operative credit system, there is a need to overcome certain issues such as inability to offer all types of financial service that commercial banks offer and other internal and external weaknesses such as, rising transaction cost, declining business level, mismanagement of overdue, excessive bureaucratization, politicization etc.

Sama 1, 2002 in his study on institutional flow of credit indicated that despite conscious efforts, there exists a substantial gap between the demand for and supply of agricultural credit. Some measures to improve credit flow to small and marginal farmers are presented.

Aynew et al., 2003 studied the functional structure of loans, creditdeposit ratio, and loan delinquencies of primary agricultural co-operative credit societies (PACS) in Haryana, India, using secondary data for the years 1988/89-1997/98. Majority (34-40 per cent) of the borrowing members of these societies were small farmers. Current production growth and stability (CPGS) loans constituted as much as 93-98 per cent of credit disbursed. The credit-deposit ratio was greater than unity, indicating that the amount of deposits was very small compared to the amount of loans advanced. Chronic overdues have registered an increasing trend during the

~ 19~

period studied. There existed no uniformity in the delinquency rates of the PACS.

Mohanty and Haque, 2003 in their study revealed that despite substantial increases in the flow of institutional credit to agriculture in India in recent years, inter-regional and inter-class disparities seem to have widened. The eastern and central regions of the country, which are starved of capital for agricultural modernization, also suffer from inadequate supply of institutional credit. The poorer section of the rural population continue to borrow largely from private agencies like money-lenders, traders and relatives, as co-operatives and commercial banks mainly cater to the needs of the better off. In other words, the relatively backward region and poorer section of the population in India have not benefited much from existing credit institutions.

Singh and Kumar, 2003 examined the credit gap in agriculture in Bikaner district, Rajasthan, India, using both primary and secondary data for the year 1998-99. Primary data were obtained from 90 borrower and 72 non-borrower farmers of different size groups. The total credit gap for the district was estimated at 86.38 per cent, showing a major hindrance to the development of the agricultural sector, to which the government and the policy planners must pay adequate attention.

Bhaskaran *et al.*, 2004 analysed the performance of co-operative banks in regard to crop loans, investigates the costs/ margins of these rural financial institutions, and examines the role of refinancing provided by NABARD in bringing down interest rates. It also explored whether these banks can provide crop loans at lower rates of interest, and suggests a novel method of "delayering" the co-operatives to improve their operational efficiency.

Anonymous, 2005 reported that there should be a focus to restore autonomy of credit co-operatives by scaling down the control and interference by the state governments through amendments to the State

~20~

Co-operative Societies Act. Further, the recommendations of the task force included provision of financial assistance for recapitalization, to fund the accumulated losses of the short-term co-operative credit structure, evolving a common accounting system, management information system and computerization and HRD initiatives.

Hatai *et al.*, 2006 in their study on agricultural credit and overdues in Uttar Pradesh found that out of total borrowing on marginal farms, crop loan shared about 61.00 and 74.00 per cent in the west and east zones respectively. The term loan was only 25.00 and 38.00 per cent of the total borrowing in the east and west zone respectively on the marginal farms. The share of crop loans was further reduced to 32.00 per cent on large farms. He concluded that crop loan has inverse relationship with the size of holding, whereas the positive relationship was observed between the term loan and the size of holdings.

Mohan, 2006 reviewed the status and issues of agricultural credit in India and concluded that though the overall flow of agricultural credit in India had increased over the years there were several gaps in the system like inadequate provision of the credit to small and marginal farmers, paucity of medium and long term lending and limited deposit mobilization and heavy dependence on borrowed funds by major agricultural credit borrowers.

Radhakrishnan, 2006 reviewed the working of two co-operative societies and found that 65.95 per cent of the landless, small and tiny land owners who own less than 1 hectare have not received any loan. However, only 23.25 per cent of those who own more than 4 hectares have not received loan. The success rate of the co-operative movement rises with the co-operation of members; the members decrease with the fall of Primary Agricultural Co-operative Banks (PACBs). The performance of PACB depends on the people who administer it and people who participate in its operation as members.

Chalam and Prasad, 2007 examined the factors behind the changing profitability and financial condition of Primary Agriculture Co-operative Societies (PACSs) in Andhra Pradesh, conducted on data from nine selected PACSs for a 10-year period starting from 1994-95 and 2003-04. Though the ratio of interest earned to total income and ratio of total income to working capital is high and satisfactory, the ratios of interest paid to total income, expenditure to total income and establishment expenditure to total expenditure are high. Productivity should be improved. The PACSs are lending much more than the deposits they are receiving. Profitability should be improved due to inconsistent net profit to total income and total deposit of selected societies, low average return of assets and insignificant return on equity of selected societies. In conclusion, to improve operational efficiency, they should reduce the ratio of interest paid to total income and establishment expenditure. To improve productivity, mobilization of deposits and profitable deployment of funds are suggested. To improve profitability, increasing the return on equity to at least a minimum of 10 per cent is suggested.

Muley, 2007 argued that to uplift the rural population, financial support is necessary. It is an essential requirement for the farm and non-farm sector. These sectors need short, medium and long term loans for their operations. The co-operative banking is the cheapest and best source of rural credit. As per the fundamental principle of co-operation, the co-operative credit is based on the principal of mutual help service objective rather than profit. Considering the importance of co-operative credit the government should protect the co-operative banks in rural competitive environment. Researcher discussed the measures to review co-operative law, adoption of new technologies, computerization, good communication network, tighten the supervision and monitoring of operation, removal of political interference, required training and incentives to staff, etc. as well as measures for rehabilitation of co-operative credit. Harshitha *et al.*, 2008 were of the view that farm credit is a strategic input. Among the various financial institutions, the co-operatives have emerged as a major source of farm credit. This study showed that all the financial indicators for the Head Office showed high positive growth, the highest in respect of advances (36 per cent). Similar trends were observed for the branches. The overall performance of the bank depended mainly on the training and experience of chairman and managing director.

Kumar and Dixit, 2008 suggested that lack of sufficient credit is one of the serious inhibiting factors in the modernization of traditional agriculture in the tribal areas. A total of 140 households spread over 8 villages in 4 development blocks of Ranchi district, Bihar state, India, were interviewed using a spatially designed questionnaire. Farm borrowing in the case of "all farmers" in the less developed region is significantly sensitive to fixed capital expenditure, expenditure on consumption and non-farm activities. Variations in farm borrowing can also be explained to some extent by working capital expenditure, expenditure on fertilizers and outstanding loans. Thus, across the two regions there were differences in the factors affecting farm borrowings and there are also differences in the extent of influence of these explanatory variables.

Pujari et al., 2008 researched on the co-operative institutions network in the state of Karnataka, based on 10 years (1996-97 to 2005-06) published secondary data. The study revealed that the share of agricultural credit covered more than 69.71 per cent of total credit advanced. Among the total amount of agricultural credit advanced, short term credit constituted about 81.70 to 91.00 per cent. In purpose-wise classification of agricultural credit advanced by PACS, the share of APS credit was highest in total credit advanced. Out of the APS credit, CPGS occupied the maximum share of 86.67 per cent to 96.19 per cent of the total amount of credit advanced. The mounting amount of overdues indicated the weakness of PACS in the state. The positive values of delinquency rate indicated that the amount of credit recovered was less than the credit outstanding. The majority of credit

~23~

overdues were within one year or less from the due date. The PACS should initiate concrete steps to convince the rural people for deposit mobilization. Suitable measures should be adopted for timely recovery of credit and reduce amount of overdues. Credit should be properly utilized for productive purpose.

Basak, 2009 revealed that Urban Co-operative Banks (UCBs) figure among the vital segments of the banking industry of the country. They essentially cater to the credit needs of persons of small means. Though some UCBs have performed creditably in the recent years, a large number of them have shown discernible signs of weakness. The operational efficiency is unsatisfactory and characterized by low profitability, ever growing Non-Performing Assets (NPAs) and relatively low capital base. The large-scale sickness in the UCBs has shaken the public confidence in co-operative banks. In this context, this paper makes an attempt to examine the working and financial performance of the UCBs,

Chatterjee, 2009 examined the expansion of institutional rural credit in the district of West Bengal, India, since bank nationalization. The study relied on secondary sources of data for the period 1972-73 to 2005-06. Commercial banks, regional rural banks and co-operatives are the major suppliers of institutional credit in rural West Bengal. The two indicators used to capture banking infrastructure development are populations served per bank branch and Credit-Deposit Ratio. As future agricultural development is largely influenced by the performance of the institutional agencies in supplying credit to the rural sector, improving their performance should be the foremost priority of the policy-maker. Though the study revealed that the rural credit deposit ratio, ratio of agricultural credit to total credit by commercial banks and total loans outstanding (at constant prices) by the primary agricultural credit societies have shown improvement in 2005-06, the overall performance of institutional credit agencies are dissatisfactory. The state of West Bengal as well as the districts witnessed a significant expansion of banking network, particularly in the

~24~

rural areas, in the period following the nationalization of the banks. The district level data revealed that the performance of institutional agencies supplying credit in rural West Bengal has deteriorated since the 1990's.

Sakthivel and Aranganathan, 2009 in their study stated that the co-operative banks are upheld mainly to help agriculture and other activities. The weaker sections are provided more assistance by lending at a lower rate of interest than other commercial banks. The share capital of these co-operative banks is contributed by both the State Government and the public. The co-operative banks like many other financial service is facing a rapidly changing market, new technologies, economic uncertainties, fierce competition and more demanding customers and the changing climate has presented an unprecedented set of challenges.

Selvi, 2009 in her study stated that the co-operatives in Kanyakumari. district, India played a vital role in the credit scene, particularly, in rural areas. Their role in the development of agriculture is of much useful to the people concerned. The co-operatives in Kanyakumari district have 114 Primary Agriculture Credit Societies, 16 branches and 5 Primary Land Development Banks or Societies. Despite the vast expansion of the formal credit system in the country, the dependence of rural poor on money lenders continue in many areas especially for meeting emergent requirements. Such dependency is pronounced in the case of marginal farmers, landless labourers, and petty traders and rural artisans belonging to socially and economically backward classes and tribes whose propensity to save is limited or too small. For various reasons, credit to these sections of the population has not been institutionalized in practice.

Gaur and Khatkar, 2010 examined the present status of rural credit in India with a special focus on agricultural credit. The efforts like nationalization of banks, establishment of RRBs, strengthening of credit institutions, etc. have been quite effective in reducing the role of informal sources like money lenders and a significant increase in the access of rural cultivators to institutional credit. The banking institutions have evolved new products to meet the challenge of increasing flow of credit in the fanning sector like Kisan Credit Cards, Self-Help Groups (SHGs), Bank linkage programmes, Micro-finance, etc. Kisan Credit Card scheme provides loans for agriculture and allied activities, crop loans and consumption loans to the farmers. Significant progress has been made in institutionalization of rural credit and the credit supply to agriculture sector in rural areas.

Kumar and Kaur, 2010 reported that in India, there is a plethora of banks providing almost all services that an individual requires. The paper reviewed the financial appraisal of Haryana State Co-operative Apex Bank which has been playing an important role in the economy of the state. The study covers the period of five year from 2002-03 to 2006-07. The various parameters taken for the appraisal of banks are number of offices, membership, paid up capital, reserves and other funds, deposit mobilization, deposit type wise, demand, collection, loans issued, loans outstanding, cost of management and profit and loss and number of branches in profit and loss. For the purpose of study, secondary data had been collected and analyzed from various sources such as NAFSCOB's reports and annual reports of HARCO BANK.

Kumar et al., 2010 were of the view that institutional credit has been conceived to play a pivotal role in the agricultural development in India. A large number of institutional agencies are involved in the disbursement of credit to agriculture. However, the persistence of money lenders in the rural credit market is still a major concern. In this backdrop, the study has examined the performance of agricultural credit flow and has identified the determinants of increased use of institutional credit at the farm household level in India. The study based on the secondary data compiled from several sources revealed that the institutional credit to agriculture in real terms has increased tremendously during the past four decades. The structure of credit outlets has witnessed a significant change and

~26~

commercial banks have emerged as the major source of institutional credit in recent years. But, the declining share of investment credit in the total credit may restrain the sustainable agricultural growth. The quantum of institutional credit availed by the farming households is affected by a number of socio demographic factors which include education, farm size, family size, caste, gender, occupation of household, etc. The study has suggested simplification of the procedure for a better access to agricultural credit of smallholders and less-educated/ illiterate farmers.

Ariyarathna and Mula, 2011 reported that many small financial institutions in developing countries make great effort to provide efficient services to poor households. It is generally accepted that maintaining the best financial practices which are of importance in corporate governance mechanism of institutions, has a close relationship with the efficiency of financial institutions, although they are small.

Das and Chaudhury, 2011 studied the performance of SCBs in the NER and also make a comparative study on the growth and financial performance of SCBs. They observed that SCBs in NER is not performing well at par with all India level. The SCBs in the NER suffers from low profitability and high NPAs which hinders the growth of SCBs in North East.

Das, 2012<sup>1</sup> observed that SCBs in North Eastern Region are not at par with the rest of the country. The Meghalaya Co-operative Apex Bank is the exception in this context but still faces some common problems that are suffered by other State Co-operative Bank in the region. Low Credit-Deposit (C-D) ratios, high over dues, high volume of Non-Performing Assets etc. are common to all State Co-operative Banks in the North Eastern Region of India. But among the rest of all State Co-operative Banks in North Eastern Region, the Meghalaya Co-operative Apex Bank is performing very well in terms of profitability and operational efficiency.

Das, 2012<sup>2</sup> was of the view that the State Co-operative Banks provide the necessary financial resources to District Co-operative Banks and Primary Agricultural Co-operative Societies and are responsible for their recovery. They have played significant role in the development of rural economy of India. The present paper explores and evaluates the growth and progress of State Co-operative Banks in the North Eastern Region of India. Further, efforts are also given to make a comparative analysis of SCBs in NER & India through some selected financial indicators. It is found that all the financial variables (capital, reserves, deposits, advances, demand, collection and over dues) increased with higher growth rate during 2002-2009 on the basis of Compound Annual Growth Rate. The paper highlights the reasons for slow progress of State Co-operative Banking in the North Eastern Region of India which is considered as the most backward region of the country. Further, this paper focuses on several pitfalls and shortcomings faced by State Co-operative Banks in region. Finally, it is observed that the SCBs in NER are not at par with all India level which is evidenced from the study of some selected financial indicators.

Deshmukh and Somalkar, 2012 reported that the Urban Co-operative Banks were giving banking facility to grass root persons. The concept of "Financial Inclusion" is inbuilt in the structure of Urban Co-operative Bank. As Urban Co-operative Banks are mostly working in the rural and semi-urban areas they understand the genuine commercial needs of the local population in their area of operation. Urban Co-operative Banks help small and medium sized traders, entrepreneurs, artisans and farmers who are deprived of banking facility as private sector and commercial banks tap only high profile and successful entrepreneurs. The Urban Co-operative Banks play an important role in economic construction. They are the back bone of banking system and contribute for growth of the nation and hence this sector needs special attention in the years to come, from the government and also from the Reserve Bank of India.

Gupta and Jain, 2012b opined that the Banking business has done wonders for the world economy. The government of India started the co-operatives as the institutional agency to tackle the problem of usury and rural indebtedness, which has become a curse for population. In such a situation co-operative banks operate as a balancing centre. At present there are several co-operative banks which are performing multi-purpose functions of financial, administrative, supervisory and development in nature of expansion and development of co-operative credit system. In brief, the co-operative banks have to act as a friend, philosopher and guide In entire co-operative structure. The study is based on some successful co-operative banks in Delhi (India). The study of the bank's performance along with the lending practices provided to the customers is herewith undertaken. The customer has taken more than one type of loan from the hanks. Moreover they suggested that the bank should adopt the latest. technology of banking like ATMs, internet/online banking, credit cards etc. so as to bring the bank at par with the private sector banks.

Kumar and Saluja, 2012 argued that the co-operative banking sector is one of the main partners of Indian banking structure and have more reach to the rural India through their huge network of credit societies in the institutional credit structure. The co-operative sector has played a key role in the economy of the country and is always recognized as an integral part of our national economy. Co-operatives have ideological base, economic objects with social outlook and approach. The co-operative covers almost all villages in India. The co-operative form of organization is the ideal organization for the economically weaker sections in the country. According to recent study by the World Bank and National Council for Applied Economic Research, the Primary Agriculture Credit Societies (PACS) amount to about 30 percent of micro credit in India.

Memane, 2012 reported that as per 2011 census, about 68.8 percent of the population resides in rural areas, depending directly or indirectly upon agriculture for their livelihood. There are so many problems in agriculture but agric ulture credit is a major problem in rural area. In many developing countries, it has been found that the rural credit market is imperfect in nature. There are substantial variations in the availability of formal credit in rural urban locations. Primary agriculture co-operative societies are present in the major parts of rural area; they provide the source of money to the farmer, which will be easily available for the cultivation.

Singh and Sukhmani, 2012 reported that the co-operative credit structure which is an integral and important part of Indian Banking system is not immune to winds of economic change. Agriculture, the main sector of Indian economy, is prone to natural calamities. As a result of uncertainty in production, low income generation and high transaction cost, agriculture financing is a very risky business for banks. Therefore commercial banking system avoids financing agriculture operations, and to fill these gap co-operative banks were organised as a tool of state policy. Agriculture being the prime sector of Indian economy, needs a very strong, efficient and effective institutional credit support even today. Therefore it has been repeatedly stressed that the vitality and viability of the co-operative credit institutes must be preserved to enable them to function efficiently, as they are and will be prime institutional agencies for agriculture and rural credit with their vast network, wider coverage and out-reach extending to remotest part of the country.

# 2.2. Utilization of bank loan and the problems faced by the borrowers in utilization of the loan:

A thavale and Mishra, 1970 in their study showed that the purpose for which the amount was diverted, were purchase of drought animals, redemption of money lenders debt and purchase of shares etc. They suggested appointment of additional supervision to ensure proper utilization. Further, the loan should be sanctioned within the shortest period and in appropriate time to avoid misutilization.

~30~

Kaushal, 1972 in his paper cited an example of the Corporation bank which has been successful in its experiment in providing the rural farmers with most of the financial requirements of their use under one roof. Findings of the study emphasized that the strategy of the Corporation bank has been caught by the people who are pleased at the prospects of getting the financial assistance of daily use at their nearest point under one point.

Narayan, 1974 did a research on management of credit and farmers behavior and attempted to analyze the various facets of economical, psychological and sociological behaviour. This study was based on a survey of a Primary Agricultural Co-operative Credit Society, Ranchi. The study concluded that the decision of buying habits was influenced by many factors: (i) The persons, who stimulate, inform or persuade the consumer at any stage of the buying process e.g. the neighbour who narrates the experience, feelings, economy and variety of the use of a particular brand of fertilizer and its preference. A number of studies have shown that personal influences have played a decisive role in the choice of branded fertilizer than the non-branded. This shows that farmers in India are as much amenable to communication and influences as elsewhere, (ii) The person who takes the decision to purchase a particular brand of fertilizer is most crucial, it is the farmer who, in general decides to purchase a particular brand or the primary agricultural society which decides to keep a particular brand at the store. Out of the 15,000 farmers surveyed, it was found that the house-wives played a decisive role in choosing a particular brand of fertilizer.

Guruswami, 1976 in his study on utilization of farm finance advanced by nationalized bank identified that about 18.68 per cent of the respondents diverted the loans because of non-availability of finance for consumption purposes, diversion of this sort of negatively influenced the repaying capacity of the borrowers since the use to which the borrower money was put were not in the nature of improving the economic status of the intended beneficiary. Dixit, 1977 study revealed that even after the introduction of production-oriented loan disbursements through the institutional sources, the loans were utilized for purposes other than stipulated. The extent of diversion in the use of loans was more on small farms and it declined with an increase in the size of farms. Co-operatives accounted for 56.00 per cent of the total borrowings of member farmers. The need is emphasized for adequately meeting the credit needs of the farmers.

Pandey and Muralidharan, 1977 in their study showed that the size of loan and consumption expenditures were the major factors influencing overdues in co-operative credit societies at the farmer's level irrespective of the categories. They reported that the loans issued were without keeping the repayment capacity of the borrower in mind and were not properly supervised resulting into diversion of loan either for consumption purposes or for non-stated capital investments.

Rajput and Singh, 1977 in their study observed that the farmers borrowed mainly for investment expenditure. They pointed out that of the total borrowings, long-term credit accounted for 48.00 per cent, mediumterm credit (51.00 per cent) and short-term credit (about 1.00 per cent).

Singh and Dhawan, 1978 study on source, utilisation and productivity of agricultural credit in Ludhiana district of Punjab observed that a greater diversion of short-term loan towards consumption and the proportion of credit diverted were inversely related to the size of holding.

Bal and Singh, 1979 in their study reported that 58.00 per cent of the total agricultural labour households were in debt. Average debt per family was Rs 893. About 55.00 per cent of total debts were owed to professional money lenders while the share in total debts of other non-institutional agencies was about 25.00 per cent. The remaining 20.00 per cent was owed to co-operatives. Only 7.00 per cent of total debts were without interest and for about 73.00 per cent interest varied from 20.00 per cent to 60.00 per cent. Debts were mostly for consumption needs; and about 70.00 per cent of indebted households were committed for 3 years.

Singh and Dhawan, 1979 studied on agricultural finance in India and argued that it has the twin problems of inadequate supply and ineffective utilization. The study examined the pattern of utilization of credit advanced to various categories of farm (by size) and by different lending institutions. The eventual allocation of funds between different inputs according to farm size was also examined. The analysis showed that a large proportion of institutional credit went to farmers of medium and large size holdings whereas small farmers had non-institutional sources which were costlier but more accessible. Small and medium sized holdings borrowed for irrigation or milch cows, larger borrowers used funds for tractors and tractor-drawn equipment's. There was considerable diversion of short term credit to consumption. All farm sizes showed inefficiencies in using credit.

Sarma and Goswami, 1981 revealed that the farmers' borrowed both for productive and non-productive purposes. They further observed that about 69 per cent of total borrowings were uitilized for non-productive purposes. Within the productive purposes, purchase of livestock accounted the maximum i.e. 18 per cent of total borrowings as against 32 per cent for procurement of food in case of non-productive purposes. The share of landless, marginal and small farmers for the procurement of food were found to be the highest being 53.91, 30.92 and 48.89 per cent respectively. But the medium farmers used a greater share of their borrowings for business.

Rao and Acharyulu, 1982 studied the flow of credit at Nagullanka village in East Godavari district. They found that about 53 per cent of the institutional funds and 80 per cent of the non-institutional funds were utilized on 'farm productive expenditure'. The remaining funds were utilized on unproductive expenditure. Among different categories of farmers, the large farmers had diverted about 51 per cent of the institutional funds for unproductive expenditure. Marginal farmers had diverted about 53 per cent of their borrowing to unproductive expenditure, that too for family consumption.

Singh and Jain, 1985 reported that the uncoordinated lending and lack of effective supervision in follow up operations has encouraged diversion of credit to non-productive purposes.

Naidu and Prasad, 1987 studied the utilisation pattern of the co-operative short-term production credit with the help of cross tabular analysis and regression analysis. They found that, the proportion of the co-operative short-term credit used for production purpose was inversely related to farm size and the amount diverted was mostly used for consumption purpose by marginal and small farmers while it was used for other non-agricultural purpose by medium and large farmers. They further opined that regular follow-up visits are necessary to assure the use of loan amount for stipulated purposes.

Patil et al., 1987 reported that farmer's borrowed both for productive and non-productive purposes. The extent of use for unproductive purposes was highest for large farmers and lowest in case of small farmers. They further reported that among the non-productive purpose crop loan was most dominant as it accounted for the highest percentage of the total credit which were among the non-productive purpose. Family expenses had the highest share in the total advances for all the size groups except the small farmers.

Satyasai, 1988 reported that the smaller the farm size, the greater is the extent of the diversion loan to other needs. He further reported that much of the diversion of credit for marginal and small farmers accounted for the consumption need.

Ohha, 1989 studied the performance of co-operative banks in India and pointed out several inadequacies. Most co-operative fail to mobilize significant deposits and are functioning merely as conduits. The overall recovery of dues remains inadequate. The need to ensure timely and adequate credit for productive purpose and to create an environment conductive to financial discipline and recovery of dues is emphasised.

Singh *et al.*, 1989 in their study showed that among the different size groups, productive utilization of loan was highest on large size group. The non-productive utilization of loan was of small and medium.

Subharao, 1990 reported that the rate of interest was a significant variable effecting short term as well as long term credit and its utilisation.

Pathania and Verma, 1991 studied the impact of size of loan and types of farmers on co-operative credit utilisation and reported that the framers with low size of loan utilized the credit significantly more than those farmers who borrowed large amount of credit. Misutilisation was also found significantly more among the farmers who borrowed low amount of credit. The tendency of partial utilisation was higher among small farmers.

Vaikunthe, 1991 studied the agricultural credit utilization and recovery performance of KCC bank, Dharwad. The study pointed out that the percentage repayment was more in the case of the farmers in the nonirrigated area compared to the irrigated area. The overdues were larger in the case of small farmers compared to medium and big farmers in the irrigated area.

Pathania and Verma, 1992 studied the impact of family income and value of farm assets on credit utilisation. They concluded that farmers with low family income utilize the credit significantly less than the farmers having higher family income. Misutilization is significantly less among higher income group farmers than low-income group farmers.

Singh, 1995 pointed out that institutional credit has made important contribution to the growth of agricultural output. In the context of flow of

credit to agriculture, viability of investment was considered as an important aspect. It was noted that less than 50 per cent of the farmers availed the institutional credit for crop production and the amount of credit was hardly sufficient for the purchase of fertilizer alone and stressed on simplification of lending procedure.

Chinnappa, 1999 study on credit problems in Shimoga district showed that out that about 52 per cent and 28 per cent of small farmers and large farmers expressed that loans were not provided in time. This was a hindering factor in executing their agricultural programmes.

Jayasheela and Birdar, 2000 reported that many empirical studies revealed that the loans are being utilized for other than specific purposes. This misutilization of loans increases the burden on the borrowers because they are not in a position to generate enough income to repay the loans which they have availed from the bank.

Moniruzzaman, 2002 in his study attempted to reflect the performance of women co-operatives in relation to the Grameen Bank (GB) groups in terms of loan utilization and factors affecting the loan amount received by the members. Data were derived from 100 members selected from GB centres and the Mohila Bittahin Samabaya Samily (MBSS) societies. The researcher found that the MBSS members under BRDB utihzed 57.00 per cent of loan for agricultural purposes while the corresponding figure for GB members was 39.00 per cent, 31.00 per cent of loan money was utilized for non-agricultural purposes of which 17.00 per cent was for petty business and 14.00 per cent in rickshaw and van purchasing for MBSS members. The members of GB societies utilized 44.00 per cent of loan for non-agricultural purpose of which 20.00 per cent was for petty business and 24.00 per cent was for rickshaw and van purchasing. The rate of loan repayment was satisfactory for both the societies. Regression results showed that the most significant loan determinants were

owned land, savings in co-operative, length of membership for MBSS; savings in co-operative and annual income for GB groups.

Fernandez, 2007 viewed that while provisioning of credit through the micro-finance institution is important, credit can be productively absorbed only when it is enmeshed with other development interventions. The paper argued that the absorption and use of credit can be made more effective if the micro finance institutions are linked with self-help groups. Emphasizing partnerships, the paper shows how multiple agencies could work together, each playing a unique role in poverty alleviation. Hence, it is argued that credit institution need not become a single window for all financial services to the poor.

Sapkal et al., 2010 made a study on the borrowing and utilization of co-operative credit by farmers in Satara district of Maharashtra, India. The sampling method used in the present investigation was a two stage random sampling with villages as primary sampling unit and cultivators as secondary sampling unit. It was observed that 24.94 per cent of the total amount of loan was misutilized at the overall level and also in the case of medium term and long term loan, it was noticed that 15.12 per cent and 17.95 per cent of the total amount of borrowing was misutilized, respectively. As such, 94.87 per cent of total amount borrowed was from institutional sources and this proportion increased with the increase in size of holding.

#### 2.3. Repayment performance of the borrowers:

Chauhan, 1971 observed in his study that the small farmers were more prompt/ punctual in repayment of loans in his study area. The amount of overdues for big farmers and medium was higher in comparison to small farmers. Roye, 1972 in a study argued that the repaying capacity of the farmers was very poor due to small size of land holdings. Gross output from such holding remained at a low level which would hardly suffice to meet the consumption needs.

Dutta, 1973 was of the view that the farmers were reluctant to repay the loan as it becomes a habit on their part not to repay loan taken either from the bank or from the government.

Hanumantharayappa, 1977 study on small farmer's production credit requirements and repayment problems results showed that there was no strong connection between social status and loan repayment. Repayment was related to income generated from sales. Dairy farmers repaid promptly as their average cash income was higher and more regularly received. Crop failure, diversion of loans and lack of supervision are the main reasons given for default by arable farmers.

Desai and Rao, 1978 reported the default rate in co-operative credit is very high. It is relatively high for short-term loans than for long term loans. Except for a few states like Tamil Nadu, Andhra Pradesh, Kerala, Punjab and Haryana all the other states have more than 30 to 35 per cent default rate. The analysis revealed that inappropriate loan terms and administration were the most important reasons. It also revealed that these factors were interrelated. For solving these problems, the study emphasized the need for reorientation of the credit projects with better economic analysis.

Kim, 1978 stated that the repayment performance is measured as a proportion of repaid amount of total repayment requirement in a given year. Multiple regression analysis reveals factors influencing repayment are not uniform. However, loan supervision and value of farm product sale are found to be significant factors irrespective of farm type. The regression co-efficient associated with the proportion of the loan used for productive purposes was not significant at any probability level.

~ 38~

Sanderatne, 1978 discussed the nature and extent of small farmer loan defaults on the basis of data obtained from a survey. The five reasons for default are categorized as follows: (i) defects in agrarian structure; (ii) variability in income caused by fortuitous, seasonal or unforeseen factors; (iii) defects and inadequacies in the organization disbursing credit; (iv) attitude conditions not conducive to repayment and (v) misallocation of borrowed funds. Strengthening the credit disbursing agency is thought to be important in minimizing default; village level institutions must be developed to develop financial discipline among farmers, supervise funds and follow up loans.

Boakye, 1979 reviewed several issues related to the non-repayment of loans, particularly causes and effects. It shows that even the most successful methods of broadening small farmer access to credit, the strongest range of incentives to lending institutions to provide such credit, and the most enlightened policies within these institutions, are of no use if borrowers fail to repay their loans. For any credit programmes, loan repayment must be improved. Group lending, to farmers' associations rather than to individual farmers, may be a way of reducing delinquency and default rates, although more research is needed on this.

Joshi, 1979 examined the pattern of repayment of short and medium term loans and identified the reasons for default/ delay in repayment of these loans and studied the factors affecting promptness in repayment, based on an analysis of data collected from 149 farmers in Maharashtra. A large majority of the borrowers had complaints about the availability of mputs. Except in the case of defaulting medium-term borrowers in the dry area, non-institutional agencies like the professional moneylenders, traders and commercial agents were found to be important sources of credit. The default in repayment of loans by the selected farmers was due to low yield returns, settlement of other debts, increase in domestic expenditure, new investments in land/ gold/ houses, failure to get non-farm income and appoint of local political leaders were identified as major factors

Sendamini, 1979 was of the view that there was huge loss and large unstanding dues despite significant progress in mobilization and credit debursement. The performance of the bank with respect to total debursement of loan and coverage of population has been remarkable. She ungested that the strengthening of infrastructural facilities would improve the loan recovery.

include and Sandhu, 1980 in their analysis of data from a sample of 90 in Kapurthala district, of Punjab, India showed that agricultural unperative credit societies were the main institutional agency which financial assistance to the farmers. Loans by non-institutional were scarce. Short-term loans for the purchase of farm inputs intermedium-term loans were advanced for tube-well engines, threshers in linetock. Long-term loans were sanctioned for tractors and other chinery. Analyzing overdues, it was found that those of medium units were highest and lowest for large farmers. The main reason for was low savings by farmers.

Chand and Sidhu, 1981 pointed out that the defaulters were high in mail size, then on medium and the large size. In small and large size roups the defaulters were almost the non-wilful defaulters. They further reported that the overdues were highest in case of small farmers followed in medium and large farmers.

Jain, 1983 studied the recovery performance of farm loans and macluded that recoveries may be improved by scientific appraisal of loan reposal, effective supervision with advisory technical guidance on stillisation etc. educating farmers on repayment and penalty for wilful detault and assurance for future productive credit would also favour the measure of agricultural loans. borrowers into non-defaulters and defaulters, and assess the probability of willful and non-willful defaulting. Utilization of credit and non-farm income was found the dominant factors in classifying the borrowers into defaulters and non-defaulters. Farm income and consumption expenditure were the significant factors to determine willful defaulting. One unit of increase in the factors such as farm income and consumption expenditure would lead to one unit increase in willful defaulting. The sources of credit availed and interest rate were the significant factors to determine the amount of non-willful defaulting.

Misra, 2009 examined the performance of PACSs and observed that government's contribution to the share capital of PACS was found to be detrimental to their recovery performance. He also observed that growth of membership size in the PACSs is another factor for the detrimental of the tocovery performance.

Shukla *et al.*, 2010 reported that the problem of recovery of agricultural loans from the farmers has become a cause of great concern. The high overdues have affected the overall financial health of commercial hanks. Problem of overdues is a hard nut to crack, particularly in rural ladian condition, where the financial institutions like co-operatives, commercial banks and regional rural banks have collectively weak financial structure and do not have very strong organizational structure for supervising the use of loans. The political interference and reluctant attitude of institutions and borrowers have facilitated the growth of willful defaulter in agricultural sector. The lack of adequate supply, assessment of potential credit needs, follow up action and proper uses of borrowed funds are responsible for mounting overdues. Overdues can be minimized, if the expected size of credit is related on a scientific basis to production outlay and the loans are effectively supervised in regard to their utilization and finally, the farmer is approached at the right time for repayment.

## 2.4. Impact of bank finance on the borrowers:

Rai et al., 1975 studied the role of institutional credit in generation of farm income and found out that the net income per hectare; family labour income and farm business income of the borrower farmers were much higher than the non-borrower farmers.

Mehrotra, 1978 in his study on short-term credit needs results revealed that credit has a crucial role to play in augmenting and minimizing farm incomes of farmers. The quantum of credit required for maximizing net farm incomes is quite high at the traditional level and it will go still higher if improved technology is used by the farmers.

Ram et al., 1978 conducted a study to examine the contribution of bunk credit on the generation of income and saving on farms based on three year averages (1971-72 to 1973-74) of data collected from 150 cultivators, selected randomly from 10 villages. They found that, share of production finance cost was 37.03 per cent of the total cost incurred on crop production, which varied from 29.94 per cent to 34.58 per cent on small, medium and large farm size respectively. The average net income, family libour income and farm business income generated on account of bank medit, these amounted to Rs. 571.64, Rs. 736.00 and Rs. 922.22 per farm respectively. The value of corresponding incomes on per hectare basis worked out to Rs. 223.11, Rs. 287.26 and Rs. 360.64 respectively in small, medium and large farms.

Sinha and Broasway, 1979 assessed the availability of credit and its utilization as well as the impact of credit usage on employment and earnings in agriculture. Regional rural banks provided 86 per cent of the credit, and 88 per cent of borrowings were used directly for agricultural purposes. Borrowers applied more inputs to their land (12 per cent increases on the cost of cultivation) and their net incomes were higher than those of non-borrowers. Roshan and Singh, 1980 studied the impact of bank finance on intensity of cropping pattern, crop output and on farm income of the borrower-farmers through the installation of tube wells. Data was collected from a sample of 59 farmers who had borrowed from the district branch. Investment in tube wells enabled the borrowers to adopt double/multiple cropping pattern and to raise the intensity of cropping. A shift in cropping pattern from low income crops to high income crops was also evident. Bank intance helped to increase yields of selected crops by 32 per cent. The net return on investment in tube well was estimated at 15.7 per cent.

Singh and Ramanna, 1981 examined the role of credit and technology in increasing income and employment on small and large farmers in Western Hyderabad of Andhra Pradesh and reported that there is scope for rusing income by reorganization of resource and further increase in income could be realized effectively. They also indicated that there are possibilities of increasing income and employment on all types of farmers with the use of adequate capital under both existing and improved technologies.

Jain and Sarawgi, 1982 carried out a studied on the impact of farm credil provided by the co-operatives and commercial banks in the tribal areas of Madhya Pradesh. The study revealed that the relative performance of co-operatives in increasing the cropping intensity of small and medium farmers was higher as compared to the commercial bank. The researchers reached the conclusion that the co-operative credit institution performed better in case of small farmers as against the large farmers and the commercial banks performance was more satisfactory in case of large farmers as against the small farmers.

Reddy, 1982 pointed out that finance is the essential requirement for almost every day's activity. Both producer and consumers in rural as well as urban areas need finance for their day to day requirement and for all productive activities. Anonymous, 1987 reported that the loans have been found to help the borrowers to become self-employed, to obtain permanent jobs and to must the overall living standard.

Kumar et al., 1989 in their study on impact on institutional credit on mome and employment revealed that credit and owned capital were two important factors influencing gross returns and employment level. Further, it was revealed that borrowers from institutional sources were better placed than the non-institutional borrowers.

Gajanana and Sharma, 1990 reported that on optimization, both returns and employment prospects improved substantially when the provision of unlimited availability of capital (credit). Further, the recommended technology has a profound influence on returns and employment. The effect of recommended technology was more pronounced when it was associated with adequate capital.

Deoghare *et al.*, 1991 conducted a study on the impact of credit and technology on income and employment of small farmers under different farming systems and revealed higher net income and better utilisation of him in resource under optimal plan as compared to existing ones. Further, the adoption of technology even with restricted capital facilities in relaxation of capital constraints and optimization resources could turn out to give more opportunities for human labour employment in respective tasks,

Vaidya, 1991 in a study showed that bank finance obtained for agricultural, allied agricultural and non-agricultural purposes enable horrower's families to increase their income, employment and assets structure both in case of agriculture and allied non-agriculture purposes.

Reddy, 1994 conducted a study of the financial performance of a Co-operative Bank. The author concluded that the overall financial position and performance of the bank was quite satisfactory. However profitability

~ 50~

and other financial indicators like solvency ratio, disclose only one aspect of co-operative performance. In one sense, the more important aspect of cooperative performance is the impact created on the economic and social life of its members.

Shekar et al., 1999 studied the impact of co-operative credit on income and employment generation of the farmers of Karimnagar District, Andhra Pradesh. After availing credit from the co-operatives, all the sumpled farmers were benefited in terms of increased human and bullock labour employment as well as net income from the farm business. Human labouremployment generated was the highest in the case of medium farms. However, bullock labour employment generated was the highest in the case of small farms. Also the net income increased per hectare land after the loan was the highest in the case of small farms.

Das, 2002 examined the impact of the Arunachal Pradesh State Co-operative Apex Bank's loans on rural development in the Indian state. Data was obtained from 200 tribal beneficiaries drawn from 10 branches of the bank. It was observed that the loans provided by the bank played an important role in improving the economic conditions of the borrowers. The bank's financing has significantly contributed to an increase in the annual income of the borrowers and generated employment in various activities. It also enabled the borrowers to raise their living standards.

Joshi, 2002 stated that credit is an important input in the development process. Ensuring the provision of timely and sufficient credit to large segment of rural population has been one of the major policy initiatives which have guided the formulation of public policy in the country. The growth of financial intermediation through the expansion of hanking services has been a powerful catalytic agent for development.

Ara *et al.*, 2004 in their study revealed that the yield gap is quite substantial, which implies that the farmers could increase their production and realize more income had they been adequately familiar with the

technology. Training and proper input use, proper management and care, creating awareness of the importance of water quality for fish production, and practical demonstration in the rural areas are some of the measures suggested to boost fish production and reduce technical inefficiency.

Akmal et al., 2005 examined the impact of agricultural micro-credit or productivity and gender empowerment. Results revealed that furners use of quality inputs (seeds and fertilizers) was improved after a ming access to microcredit. Crop productivity and cropping intensity also improved. A change in consumption and spending pattern is measure of welfare impact) of both male and female beneficiary households was also noticed. It is suggested that increasing the amount of microcredit and lowering the interest rate would augment gender empowerment in the project area.

Gangaiah et al., 2006 studied the impact of Self Help Groups on income and employment in Chitoor district of Andhra Pradesh. On an iverige the loans received generated 184 days of employment per house hold and income on an average Rs. 19,578/- per family which was utilizent to bring the poor families above the poverty line. The opinions of simple respondents revealed that they productively made use of the income generated after receiving the loans. 39.11 per cent of respondents renvested their income on agriculture, 20.34 per cent of them revealed that per of the income generated was utilized for educating their children and 15,84 percent of them spent on health.

Ramakrishnappa and Jagannath, 2006 conducted a study on merging micro-finance issues in dairy development in Karnataka. The study found that the micro-finance scheme has positive impact on income and employment generation, and has improved the natural resource management options.

Deorukhakar et al., 2007 studied the impact of institutional credit on cost, returns on profitability in the north Konkan region of Maharashtra the Credit enables farmers to use various input to the recommended increase agricultural production through increased employment opportunities. The analysis revealed that cropping intensity unbeneficiary farm category was higher than non-beneficiaries. Similar time was observed for other purpose of loan. Per farm income and profit entendiciary farms was higher than non-beneficiary farms. The effect of duri-term loan in production process was found significant on all size groups. The value of regression coefficient indicated that with increase of the substrated that there is positive impact of agricultural credit on per hectare yield of different crops. Thus, the flow of farm credit the resulted in improving the economy of the borrower farmers.

Jongur, 2008 observed that a necessary linkage of activities on loan approval and disbursements has an impact on agricultural productivity, even though it has some constraints including: lack of adequate funds for us dients/farmers, poor repayments abilities etc., among others. Some immedies were suggested for its improvements including provision of hybrid seeds, livestock studs, pesticides and fungicides ai affordable prices to farmers.

Ray, 2008 in a study based on survey data collected from a sample of init farm households in West Bengal, India, revealed that credit availability from both institutional and non-institutional sources have a significant contribution to change in cropping pattern. But the impact of credit realfability on cropping pattern change is more significant in the case of smaller-sized land holdings. The profitability is also higher in the case of small and marginal farmers. Close supervision of cultivation, availability of credit and the exclusion of costs of family inputs (e.g. family labour) are the factors behind this higher profitability. Thamilarasan, 2009 assessed the impact of institutional credit on interest who have availed credit from co-operatives especially for production purposes. The impacts of institutional credit provided by or-operative banks are studied in terms of employment generation, creation of assets, income and occupation of the farmers in Dharmapuri district, Tami Nadu, India. The study showed that the financial assistance from the banking institutions for agricultural operations has created significant impact on the level of income and employment (in terms of number of nandays both for land owners and agricultural coolies), and thereby in the formation of assets. However, the study proved that the impact is little and timited when it comes to improvement in the extent of land-holding or the value of lands. Similarly, no improvement was seen on the occupational ditus of the borrowers.

Sarkale *et al.*, 2010 examined the impact of Satara District Central Co-operative Bank in agricultural and rural development revealed that the bank increased the income level of the farmers and overall agricultural senario.

## 15 Problems faced by borrowers and the bank(ers):

Patel, 1974 pointed out that unawareness among the rural masses about the role of commercial banks in transforming the rural social life, lending schemes formulated by the banks, financing procedures, legal banking, technology and economic requirements etc. were the principal constraints of rural credit.

Singh et al., 1974 pointed out that the main problems faced by the small farmers in getting credit was the process of getting loan itself was not and liberal. A farmer has to run a number of times to the society or the bank for completing the formalities. Further, the lending institutions are

minimum to advance medium and long-term loans due to poor repaying repacity.

Hate, 1977 in his study identified the problems faced by the erginized institutional agencies in financing agriculture in India. They include inadequacy of finance, weakness of the co-operative credit system is many areas, sectoral and regional imbalances in the flow of credit, lack of bankable assets and mounting debts. The study suggests measures to find solutions and presents comments on the difficulties encountered in implementing such measures.

Sawant, 1978 in a study on a sample of 175 farmers from 109 villages in Maharashtra State to identify associations between borrowing behaviour and personal characteristics of borrowing farmers revealed that financing agencies had served only those farmers who were literate, actively participating in social organization, possessing a large land holding and some innovators.

Anandan, 1979 pointed out that the non-repayment of loan by re-loanees, difficulties in obtaining suitable securities, non-availability of certificates and document from concern department were the main problems faced by the farmers in the way of obtaining loans from the lunks.

Famoriyo, 1980 in his paper concludes that banks and other institutions have problems in dealing with individual smallholders because of difficulty of contact, lack of information and uncertainty in the impervision and repayment of loans. It is suggested that farmer co-operative societies appear to be the best means of bringing essential credit to such smallholders.

Puhazhendhi and Balakrishan, 1981 reported that the nature of problems faced by the farmers in getting and using farm credit were, the

~55~

delay in sanction of loan, rigidity of rules concerning security and inadequate supply of credit etc.

Murthy, 1982 reported that some of the major problems in financing spiculture through multi-agency are different systems, procedure and policies, security norms service and supervision, charges bearing interest tabatter.

Saxena, 1983 conducted a study on practice and problems of District Central Co-operative Banks in Utiar Pradesh and highlighted major problems of primary co-operative societies, as lack of financial assistance, pror managerial capabilities, lack of experienced supporting staff, un-unception of the proven methods of purchase and sales promotional activities. All the branches can have uniformity in rates and other policies. As a normal practice there should be only one consumer society in a city eperating through certain number of shops and its membership should be open to all such sections of consumers as it may deserve a character of the community institution. This section covers studies on many other areas of util importance viz., finance, protection of farmers' interest, specific areas, problems etc.

Shankarish and Rao, 1983 studied the operational problems of Definit Co-operative Banks. The findings of the study are close to the mality. It is suggested that the credit facility should be made available to the furners at the door step so that unnecessary expenditure may be saved. According to the study 70.00 per cent of the margin of the farmers may be used, in this way. It will also eliminate the necessity of the recovery importors visiting the primary co-operative credit societies to verify the position of the recovery.

Barua, 1986 analyzed that in North-East India inadequacy of banking services in the backward areas is not the major cause of non-development. The major problem is non-development of effective extension services at all levels, especially at the village level, for agriculture and allied activities.

~56~

Gupta and Sadhu, 1995 in their study observed that mounting mendues, staff problems, lack of consumption loans, improper assessment of credit needs, rigidity of institutional credit were the major constraint of rural credit and offered suggestions like, recovery of overdues, development of staff, people's participation, consumption loan, etc.

Joseph, 1995 in his study on funds management of the Agricultural and Rural Development Banks in Kerala found out that the growth rates of cest components were high compared to income factors. The cost of management was also high in these banks and it was found to adversely affect the profitability. He further opined that, because of maintaining overdues, profitability was deteriorating year after year and the operational efficiency and overall return was very low in these institutions. The margins received by primary banks were not sufficient for their profitable running. In his opinion, major reasons for heavy overdues were high family expenditure, wilful neglect, modification of subsidy system, mutilisation of income from the project and inappropriate Government policy.

Patel, 1995 observed that ineligibility, continuous decline of the profit high working cost, lower margin, govt. intervention etc. were some of the problems of rural credit delivery system. Handling small loans and but management were also some other problems recorded by him. He suggested improve ment in productivity, efficiency of employees, autonomy to bank, encouragement of mobilization of deposit, credit deployment, terovery, man power planning, infrastructural facilities, effective coordination among various institutions etc.

Gandhi, 1999 stated that in the case of co-operative credit, the problems were created often because the co-operatives were not people's co-operatives but government's co-operatives. It was suggested that group lending should be developed in a large way. Institutional credit may also be given for consumption purposes on the basis of land. It was indicated that waiving of loans by the government in the past for political reasons was a major problem and it punished the non-defaulters rather than the defaulters. A good insurance service could help to make agricultural lending more viable. It was also found that recovery rates were better in non-institutional credit than in institutional credit. Thus, there was a case suboption of some features of informal lending into institutional lending.

Reddy, 1999 conducted a study on the performance, strength and weaknesses of the financial institutions in agriculture credit in India. The credit co-operatives are facing a serious situation on account of mounting merdues. Improvement of recovery performance is crucial for the expansion of agricultural credit as well as for the agriculture credit system. Innovative resources for mobilization of deposits are needed, and confidence among the depositors. The commercial banks will have to be persuaded to vigorously target priority lending to the agriculture sector.

Agrawal and Solanke, 2002 reported that the co-operative banks are contributing a constituent part in India's banking and financial system. The rural area requires funds for two reasons viz., working capital through short terms needs and agriculture and other bearing activities through long term requirements. The agricultural and other than agricultural processes in the rural areas is typically seasonal. The households require credit to work seasonal activities in earning and expenditure. But Govt. of India has not provided a good support to the co-operatives due to which many problems has been faced by them. Thus an attempt has been made to elaborate the problems and the relative perspective of co-operative banks in the Indian Economy.

Subburaj et al., 2003 examined the technical and operational problems matronting primary agricultural co-operative banks in India, including problems with the organizational structure, low level of productivity, low level of profitability, low viability, and inadequate managerial skills. Yerramraju, 2004 stated that the problems confronting Indian agricultural credit are high transaction costs and poor recoveries. He suggests means to improve the lending infrastructure in terms of policy objectives. The need for the National Bank for Agriculture and Rural Development to re-envision its role is also pointed out.

Tamuli, 2005 study on an overview of the development of the agricultural co-operative sector in Arunachal Pradesh, India, and identifies the problems faced by the co-operatives in terms of infrastructure, sumagement, finance, and credit recovery, among others. Suggestions to improve the functioning of co-operatives in the state are presented.

Prasad, 2006<sup>1</sup> in his article examined the performance of co-operative redit and banking structure. The critical problems faced by PACSs are lack of diversification in business portfolio, low volume of business, declining percentage of borrowing membership, high cost of management, inbulances in loan outstanding, unskilled staff, lack of professionalism, weak MIS, involvement in less profitable PDS business and low interest margin.

Prasad, 2006<sup>2</sup> in his article pointed out the several problems faced by PACSs. He stated that the problems faced by PACSs have greatly affected their performance. He suggested that PACSs must advance more amounts of short-term, medium-term and long-term loans to the members and link the redit with marketing of products which will go a long way towards better recovery of loans and advances, which in turn, will improve the imancial soundness of PACSs.

Thanarathnam, 2006 while studying the working of primary agriculture co-operative bank analyzed the loan dispersed by the bank found that 24 per cent of the farmers stated easy accessibility and 76 per cent of the farmers' stated low rate of interest were the reasons for borrowing from co-operatives, which was a good indicator of good performance of bank. He found that difficulties in getting loans were due to the difficult procedures for 22 per cent, cost of availing loans for 16 per cent, security required for 24 per cent, untimely loans availability for 18 per cent of the farmers along with difficulties in providing documents for 20 per cent of the farmers. He opined short term loans were generally provided on personal security. Therefore, the problem of providing security as a problem could be easily remedied.

Gnanadhas and Geetha, 2009 were of the view that co-operatives or inv a place of eminence in the economic activity of the country and have been acting as a catalyst for the socio-economic development. Since independence, the co-operative sector has made remarkable progress, which has also resulted in certain weaknesses. Default in repayment of loan is major problem, which affects the entire financial performance of the societies. The present study reports that the environmental factor is the most influencing factor leading to default in repayment of loan. The apex operative institution, therefore, should take into consideration the problem and should come forward for the revival of the societies in order to make them as economically viable societies.

Ravichandran and Alkhathlan, 2009 opinioned that very few people have access to banking services. There are number of factors affecting incess to financial services by weaker section of the society in India. The lick of awa<sup>r</sup>eness, low incomes and assets, social exclusion, illiteracy are the barriers from dema<sup>n</sup>d side. The distance from bank branch, branch timings, cumbersome banking procedure, over requirement of documents for opening bank accounts, unsuitable banking products/ schemes, language, high transaction costs and attitudes of bank officials are the turiners from supply side.

Sharad and Thakkar, 2012 reported that the rural credit co-operative notem in India is the world's largest rural financial systems. During the rast over hundred years, these credit co-operatives have witnessed many successes and failures. For a long time, co-operatives have been plagued by mmerous problems such as undue government interference, poor povernance and management, high overdues and lack of deposits, financial uducipline and accumulating non-performing assets.

## 16 Suggestion and policy implication:

Finch, 1969 was of the view that the borrower's security, ability and integrity, their past record of repaying debt etc. should be carefully reviewed while financing them. It also emphasized on determination of borrowers present financial status, evaluation of proposed programme for the next period, reviewed performance of past years and reviewed periodic mogress.

Agarwal, 1974 in his study stressed on the formation of the District Central Co-operative Banks for which the whole country may be divided in different zones. Family may be taken as primary unit. One hundred hundles of a locality or an area may be allowed to form a co-operative. The present card holders who might be getting their supplies from their fair price shops should be asked to get themselves enrolled as members of the primary co-operative society of their respective areas/localities. If the above distributive scheme is implemented, it is expected that not only the interest of the consumer will be protected, but the district co-operative bank will also help the government to hold the interest rate to protect the interest of the farmers by making available the articles which are in stancity.

Agarwal and Kumawat, 1974 stated that mere introduction of improved technology without comparable credit facilities cannot be expected to have any significant impact on farm income. So, efforts should be made to extend credit facilities along with the popularization of HYV, intellizers, pesticide, and irrigation facilities. Inadequacy of credit is an important factor limiting acceptability of new agricultural technology.

~61~

Sarkar, 1974 in his study on the overdues of co-operative banks in India found that the heavy overdues at the level of DCBs are said to impair their capacity to borrow from the higher financial institutions. He was of the opinion that the reason for the rise in the level of overdues was the failure of the DBCs to recover their dues and not due to any inherent inbility of the borrowers to repay. The failure of the executives of the cooperative institutions to adopt appropriate measures, political patronage to defaulters, defective lending policy pursued by the DCBs and Immary Agricultural Credit Societies and administrative weaknesses were the other reasons cited for higher overdues in co-operative financial institutions.

Batra, 1977 reported that though the rural banks are conceived as ignores for opening alternative sources of credit for developmental needs in the rural areas of India, it is argued that credit will not automatically each the weakest and the most deserving sections of the community. For the special efforts will have to be made in co-ordination with other credit institutions and proper vigilance exercised.

Garg, 1977 in his study on farmer's problem and credit co-operatives remcluded that the retail outlets should be stepped up with a view to diversify the range of agricultural product. The study expected that in view in the keen interest on the part of the Government, both central and state, the agricultural co-operative movement may soon make headway and was thely to provide required protection to the farmers who are mercilessly cheated by the retailers in private trade.

Naidu, 1977 reported that the performance of credit institutions have to be judged not only in terms of development but also by the capacity to mach the small farmers, rural artisans, agricultural labourers and other members of the weaker sections of the community. A plea is made for minducing structural changes in the institutional framework for helping the weaker sections. Apart from the development of all aspects of the fellen agricultural sector, it calls for special attention to the promotion of rural village industries in the context of rural development and removal of antiployment and underemployment.

Chidambaram, 1978 studied the organization of the Agricultural blinance and Development Corporation (ARDC), the scope of refinance facilities, refinance policy, terms of refinance, operations, developmental mile evaluation, and International Development Association (IDA) credit in financing agricultural projects. It is concluded that with the various mustures taken or proposed to be taken, the Corporation expects to play a such larger role in helping member banks, not only by providing refinance tallities but also by giving assistance in regard to the various features of a unit system of investment credit for agricultural development.

Colombo, 1978 opined that the rigidity with which certain criteria's for the allocation of credit are upheld should be relaxed so that the flow of credit could be on time towards projects in need of support. Monetary putty should not assume a neutral stance especially for cases where findiness is most effective, as in some aspects of the agricultural situation. Public intervention could easily speed up the circulation of funds to affect it timeliness which is at the moment lacking and which has a debilitating effect on the agricultural sector.

Desai, 1978 in his study reported that the group approach can enable the banks to reach a larger number of clients through a given amount of ulministrative resources. The group approach can help to achieve scale renomies and then assist cost reduction. These groups are not entities in the same way as co-operatives, which are formed through official or government sponsorship, but informal groups at village level.

Kamath, 1978 in his study detailed the steps necessary to co-ordinate the variety of credit institutions which at present overlap each other in writing agricultural sector. The working group made recommendations in following categories: area and functional demarcation, consortium  $\sim 63\sim$  approach, branch expansion, interest rates, security for loans, procedures and systems, inspection and supervision and credit guarantees.

Kasar and Patil, 1978 suggested that the organizational structure and the working procedure of the institutional credit agencies need to be undified for lowering the cost of credit as well as removing the anomalies in respect of security, clumsy procedure, interest rate etc. for uniformity of their functioning.

Pancras, 1978 studied the funds management in co-operative banks ind came to the conclusion that the co-operative banks in the far flung innus are forced to keep more cash / liquid assets due to their far away location from apex banks. He opined that profitability in co-operative banks is a factor of efficient management of funds mobilization and imployment of funds. Further, he stressed that it should be the objective of that to increase profitability by efficient control of costs associated with funds management.

Shah, 1978 in his article alleged that the limitations on the small firmer can be analyzed as resource constraints and systems barriers. Small farmers face both the resource and systems constraints though within these constraints they can often attain a high level of efficiency. The problems of the small farmer viewed as resources is one of scale, when viewed as retems it is highly complex with no single characteristic (such as credit or knowled ge extension) which can provide the remedy. An example is given of the harm to the economy of the small farm which can arise when cattle numbers are increased. Three categories of remedy are suggested: inpanding the enterprise base by increasing the size of the holding via land morms; expanding the resource base within the existing technology (r.g. irrigation making it possible to grow two crops); and remedies that more system change (e.g. with irrigation new crops can be introduced).

Khemani, 1981<sup>1</sup> is of the view that in rural credit schemes, where the aim is to achieve perceptible economic growth, the field staff has to take

~ 64 ~

more the role of a change agent to promote village development. There must be a continuous and close relationship between bank staff and the inlopted villages so that maximum positive benefits are derived from the programmes, and the supervisory role is not stressed.

Khemani, 1981<sup>2</sup> reported that the area approach offers several dynnages: (i) coverage of a large number of farmers by a small number of fold staff and field visits, (ii) curtailed requirements for transport, and the easier and less expensive supervision and recovery.

Reddy, 1981 reported that credit giving institutions while providing the red to the weaker sections, should take into consideration normal could requirements for consumption purposes. He also suggested that, a neutriportion of credit should be in kind. Further, it should examine the termical feasibility and productive capacity of the project. The technical down, if required , should be provided to the loan applicants. Furthermore, the red it supervisor should supervise and control the use of loan amount throughout year.

Desat, 1983 was of the view that no single agency can satisfy all the cuedit needs in magnitude and area to be covered. He suggests that it is not only the strengthening of the financial institutions such as co-operatives, commercial banks including regional rural banks, but an effective nourdination of their lending activities. Therefore, the idea of multi-agency operatives, the appropriate model for defining the respective roles of co-operatives, the commercial banks and the regional rural banks in a given use of operations.

Nicholson, 1983 went on saying that credit shall educate, discipline and guide the borrower. It should be granted to only those who have formed to think, plan, to save. It is emphatically not the outpouring of them capital that to classes unprepared for the boon. What is wanted is the promotion of facilities for saving, the encouragement of banking deposits, the inculcation of the true project, uses and limits of credit, in other words,

~65~

me development of the essential national virtues of thrift, foresight and withhelp, through institutions organized for these ends.

Lalwani, 1984 in a study tried to evaluate the personnel philosophy and approaches to the personnel management to highlight; the organizational planning and development, the staffing pattern, the training and development, the motivations, the labour relations and the personnel research it was found that the personnel policies, instructions approaches and regulations were very crucial factors for smooth running of the u-operative sector. Under the orientation courses, the co-operatives athectives could be accomplished for poor masses of India by giving a fresh coullook is the personnel policies.

Sharma, 1985 in his study on short-term agricultural credit of Rejusthan Central Co-operative Bank observed that, with regard to shortimm credit, the central co-operative banks should re-orient their loan policies and procedures on the basis of crop loan system. He suggested that tous should be given in instalments and there should be a proper linkage between advancing and repayment of loans in the sowing and harvesting resons.

Shah, 1986 in his study called for the establishment of Research and Declopment cells in co-operative banks as the need of the hour essential in survival, especially in view of the competitive multi-agency banking encept which has come in the field of rural finance. He mentioned that the present profile of the functioning of the co-operative credit institutions, imply establish the rule of thumb as a modus operandi at all levels of management. Planning in co-operative banks is also asked to be more systematic without loosing the sense of flexibility and entrepreneurial flair. He opined that co-operative banks have to be more imaginative on their opproach in marketing and selling of banking services.

Burkell, 1989 in his study revealed that group lending reduces risks, lowers administrative and transaction costs; and it is argued that its design and evaluation should reflect the goal of improving the quality of rural financial services. The function of group lending schemes is discussed in relation to financial development, informal finance and the proper goal of rural finance projects. The mechanisms by which interest rate ceilings and there have stunted the potential contribution of group lending to rural finance development are highlighted. The conditions for a successful use of the liability as loan security, the proper role of savings mobilization and finance schemes are also discussed.

Reddy et al., 1989 while investigating a suitable resource use pattern for farmers with short-term loans felt that there is need to educate farmers in renganization of resource use within the existing level of own funds and crop loan facilities to enable them to achieve better net farm returns.

Anonymous, 1993 studied the annual report of NABARD and pointed on the weakness of the institutional agencies in providing rural finance in the following words. The National Bank recognizes that for the effective operation of its policy, a financially sound and operationally efficient credit delivery system is necessary. It has, therefore, been the banks' endeavour in re-orient the functioning of its client institutions viz., commercial banks, ruonal rural banks and co-operative banks towards the achievement of the policy.

Tucker, 1993 in his study noted that Human Resource Development has a definite role to play in improving productivity in co-operatives.

Muthupandian, 1995 in his study on the overall performance of Trunclueli District Central Co-operative Bank (TDCCB) noted that the second of TDCCB in future will depend not only upon the development of primary societies and the growth of the co-operative spirit among the members but also upon the extent to which they are able to mobilise deposits and savings and make recoveries of bad debts. He further pointed and that the bank will have to encourage agricultural development and will here to come up regarding the standard of supervision of the societies

Joshi, 1997 stated after evaluating the strengths and weaknesses of the country's rural credit structure that non-institutional agencies clinined to dominate the rural areas. The village money-lender was still using. Calling for a drastic overhaul of the set-up, the rural financial resolutions could be viable only if they mobilize deposits. Monitoring the of rural credit must form an essential ingredient of an effective delivery ruem. Firmness in the face of political pressure and development of sense at responsibility and accountability were prerequisites if the weaker terms were to reap the full benefits of the rural credit structure, he believed.

Kuta and Sharma, 2001 argued that a successful financial institution, preally a co-operative financial institution, had to adopt itself to the tanging needs in order to become sustainable.

Singh et al., 2001 reported that the prime function of these societies then to supply agricultural inputs. One of the major constraints has been the imposition from government agencies which has undermined the release of co-operative societies. For a successful co-operative society, efficient integement is of utmost importance as most of the respondents held this future as a basic requirement.

Tiwary, 2001 reported that the emerging psycho-socio economic rohims of farmers in India make it imperative to re-evaluate the human development priorities for credit co-operatives, overall priority of the perative credit should be total recovery management (recovery of formerial and moral health of the members) rather than recovery conservent (recovery of loans).

Dev, 2004 studied the important indicators relating to rural India in more and post-liberalization periods. These indicators relate to recommic trends, the agricultural sector, poverty, investment and cipital flows, employment and real wages, the public distribution system, ind health and education. It is suggested that investment, technology and appropriate institutiofs are needed to make rural development more hmad-based and balanced. Ten general areas where policy attention is required are outlined. These areas viz., employment, increase in public institutional reforms, und non-farm sector, health and education, improving basic services, reduction in. alld personal, regional gender inequalities and intertralization and governance.

Roy and Syed, 2004 analyzed and observed that the programmes interaken by different agencies had contributed a lot in the area of premi alleviation through gainful self-employment among the rural poor. It suggested that more diversified areas should be earmarked for incluing the scope of investment in different productive activities as well micro-enterprises in rural areas. The government should come up with the financial resources in micro-credit operations and field training for indevelopment of social capital in poverty-stricken areas.

Sen, 2004 reported that the co-operative banks continue to play a mitally significant role in the socio-economic matrix of III dia. As such, the institutions cannot simply be washed away. Effective measures are, therefore required to be taken on an ungent basis so that they continue to entribute towards the development process in the country.

Cupta 2005 studied the history of co-operative credit institutions in highlighting the initiatives taken so far in strengthening such mutures. It is argued that no initiative for strengthening credit operatives will be sustailed unless it comes from the co-operative mutures in strengthening the sustailed operative institutions in strengthening the subtrooperative credit system is emphasized. Patil, 2005 studied the evolution of agricultural credit institutions in India, describes the country's co-operative credit system, highlighting its moblems and deficiencies. He argued that ii may be worthwhile for the Ameriment/RBI to study the cost structure of the co-operative banks, develop appropriate cost norms for rural banking, and extend suitable moont where the costs are higher in spite of efficient operation.

Hussain, 2006 in his study concluded that it is high time that the entire co-operative banks in Kerala have to analyse the profitability of of their activity, plan their funds efficiently and effectively, utilize min work force to the maximum in order to get a reasonable profit and unvice in their competitive environment.

Seilan, 2006 in his article suggested that the societies should be mutaged to mobilize more deposits to become financially stronger so nut the owned funds get strengthened, the loaning policies reoriented in the owned funds get strengthened, the loaning policies reoriented in the or of small and marginal farmers and other weaker sections of the teral community. To ensure proper utilization of credit, strict vigilance and firstlive supervision of credit is necessary. The members should take active interest in the working of co-operative credit societies and proper training to to be given to society staff which will lead to the improvement in the multity of service rendered by co-operative credit societies.

Kumar and Singh, 2007 suggested that apart from financing, proper midance regarding utilization of the available high yielding varieties of sects fertilizers and pesticides depending on soil conditions and effective upervision from time to time should be initiated.

Natarajan, 2007 opined that co-operatives have to get a reasonable mill. Therefore, it is high time that the SCBs to analyse their profitability of each of their activity, plan their funds efficiently and effectively utilize their work force to the maximum in order to get a reasonable profit and million their competitive environment otherwise the loss scenario will at away the capital of the banks held up to liquidation.

~ 70~

Sharma et al., 2007 in their study examined access to credit which notes pattern of borrowing, overdues and determinants of borrowing relation. The results suggested that financial institutions should be given hand to some extent to tackle the lending at their own level. The management is needs to be given on "number of borrowers" rather than "amount unding" which may help the small and marginal farmers to a large the Thus, there is need to develop the multi-functioning co-operatives which should not only provide good quality and adequate inputs but also unterest to the farmers.

Sujatha, 2007 studied the financial performance of the Krishna District Co-operative Central Bank (KDCC) in India and identified its inengths, weaknesses, opportunities and threats. A structural and growth analysis was conducted on balance sheets and profits and loss accounts ion 1995 to 2005. The strengths of the bank are: higher level of own funds, muonable cost of deposits and borrowings, low expense ratios and invourable burden ratio. Its weaknesses are: high levels of liquid and cash evels, low credit to deposits ratio and low yield on advances. Its importunities are: expansion and new areas of business. Its threats are: low reld on assets, low profitability, low non-interest income and growing imperforming assets. The following are suggested: conversion of animeses into strengths through planned and sustained effort, iddnessing threats immediately, launching of a deposit mobilization comparent to achieve minimum growth annually, diversification of loan portfolio and loan recovery.

Dutta and Basak, 2008 were of the view that Co-operative banks should improve their recovery performance, adopt new system of computerized monitoring of loans, implement proper prudential norms and organize regular workshops to sustain in the competitive banking environment.

~ 71 ~

Paramasivan, 2008 in his study on rending and repayment entructuring of co-operative societies is unavoidable in the present day unation and the primary agricultural co-operative banks should change ther structure and programmes in accordance with modern development.

Paranjothi and Ravichandran, 2009 conducted a study to understand how co-operatives are functioning at the grassroots level and discuss the approach of various working groups towards co-operatives in the 11th Five terr Plan of India. The first section of the paper deals with the performance of primary co-operatives at the grassroots level during the last i years (1999-2000 to 2004-05). The second section discusses the sconmendations of the Steering Committee on Agriculture and Ailied sectors and the Working Groups on Agricultural Marketing and Animal Husbandry and Dairying with respect to co-operatives in the 11th Five Year than. The concluding section outlines some strategies to ensure that moperatives survive in a competitive environment.

Reddy, 2010 suggested a new approach to banks to reach wider ropulation in rural areas by establishing mobile-banks/ representatives/ genis who operate on commercial basis rather than just by self-help groups. These agents/ representatives work on commission basis and hence self-motivated and cost effective in assisting banks in service provision/ deposit mobilization.

Barton et al., 2011 reported that finance is an important topic for senior co-operative leaders and boards of directors. Education is needed on how to align co-operative finance principles with co-operative principles and business models.

# CHAPTER – III

# METHODOLOGY

- ulating fillowed

Alexandre Samera

## CHAPTER – III

## METHODOLOGY

The success of any investigation turns out to be depends upon the estudiological approach followed. The accuracy of methodology followed undirected in the outcome of the investigation.

Methodology refers to process of providing information regarding dictions of what, where, when, how much and by what means the study securited out.

The methods adopted in the course of this study have been minimized under the following heads.

#### U. Research Design

Design means to plan. Designing is a decision making which is to be used out according to the existing situation for effective implementation. It is a process of deliberate anticipation directed towards solution of expected situations.

The present study was based on the "descriptive" type of research doinn in which "Ex-post facto" planning stage with specific objectives are at for the inquiry. In the light of the objectives, the technique of the instigation to be adopted, tools to be used and the pattern of statistical autors to be followed were decided. Further, the scheme of the mentation of the study was developed and given a definite shape to the with the outline of the study. The study was conducted in the light of the setobjectives and under framework of the adopted outline. In order to understand the findings of the study in a wider context and in evaluate their relevance in the light of available knowledge on the infect an effort has been made through review of proper and relevant locature related to the previous researches, which have been conducted in the test. To provide scientific basis to the study, a proper hypothetical immework was also developed, which provided a definite direction and scope to the investigation. The findings of the study have been property discussed in the light of available research material on the subject in the scope of the study.

#### 32 Sampling procedure

Based on the objectives of the study, beneficiaries (loaners) who had mailed bank loan and the non-beneficiaries (non-loaners) were considered at the present study.

The present study was purposively carried out in the state of Viguland. The State consists of eleven districts, of which Dimapur district

- No specific study has been carried out in financing agricultural and allied activities by the Co-operative Bank so far in Dimapur district.
- The district has the evidence of successful implementation of bank finance as in this study area locates the main office i.e. The State Co-operative Bank.
- (c) Easy accessibility and acquaintance to the district blocks for the investigator.

The sampling process in this study consists of three stages viz., slighted of blocks, selection of villages and selection of respondents.

~ 74~

#### 321 Selection of blocks

Out of four blocks in Dimapur District, two blocks viz., Dhansiripar and Medziphema were selected for the present study. These blocks were known to the investigator which facilitated reliable and valid information from the respondents.

#### 12.2 Selection of villages

The complete list of villages pertaining to each selected block of district Dimapur was obtained from the block office and three villages from block were setected by random sampling technique. Thus, in all 6 villages were selected by random sampling technique.

#### 123. Selection of the respondents

Respondents were selected randomly for the present study. From the selected six villages, ten (10) respondents from beneficiaries and nonbuneficiaries families were selected from each village; thus making a total unple of 120 numbers (sixty borrowers and sixty non-borrowers) for the tudy.

#### III. Techniques of data collection and period of inquiry

The present study is based on the secondary data related to utuational background of the entire district, amount of loan advances to the selected borrowers and the primary data of the selected farmers. The recordary data was collected from the concerned banks operating in the uterted blocks, District Agriculture Office, Block Offices, District Statistical Office and other related offices. The primary data was collected with the

~ 75~

built of well tested and structured interview schedule and open positionnaires developed for this purpose. Informal interviews were conducted for making further probe into the questionnaire data, as and where required to ascertain the facts from the respondents and others movemed. The interview schedule was pre-tested on a sample population of the study and was modified and corrected according to the requirement of the situation.

The primary data in the study relates to the year 2010-12.

#### 14. Processing and Analysis of Data

After completion of the field survey a systematic editing of the data was done and classified into tabular form for analysis using relevant statistical tools.

The data thus, collected was compiled and tabulated systematically. In most of the cases simple tabular analysis was followed. The statistical method and tests used in the present study were percentage, mean, standard deviation, rank order, Co-relation Co-efficient and Regression analysis.

To arrive at the statistical reliability of the results obtained on the hass of tabular analysis, the following lools were used.

#### Growth rate:

It is the rate of increase in size per unit time. The percent change from one period to another is calculated with the formula-

Growth rate = (Present value - Past value) Past value x 100

~ 76~

Mean and averages:

In mathematics, an average is a measure of the "middle" or "typical" name of a data set and often simply called the "mean".

Average 
$$(\bar{x}) = \frac{1}{N} \cdot \sum_{i=1}^{n} x_i = \frac{x_1 + x_2 + x_3 \dots + x_n}{N}$$

Where, N = total number of observations $x_i = \text{sample item value}$ 

 $x_1 + x_2 + x_3 \dots + x_n$  are the sample observations

#### **Fercentage**:

A percentage is defined as a number represented as a fraction of 100. Incentages are used to express numbers. It is used to compare things and also used in ratios. It is denoted by the symbol % and represented by the formula-

Percentage (%) = 
$$\frac{n}{\sum x_i} \times 100$$

Where, n = sample item value and  $\Sigma x_i = Total sample item value$ 

#### functional analysis:

In order to establish a functional relationship of different enterprises with its strategic input variables, Cobb-Douglas production function of the following type was used to assess the impact of inputs towards the gross return:

 $x = a \cdot x_1, x_2, x_3, x_4, x_5, x_6, x_7, x_8 \dots x_n$ 

Whereas, y is the output and,

11, x2, x3, x4, x5, x6, x7, x8 ... xn are the inputs or independent variables

b),  $b_2$ ,  $b_3$ ,  $b_4$ ,  $b_5$ ,  $b_6$ ,  $b_7$ ,  $b_8$  .....  $b_n$  are the elasticity of production of the input factors  $x_1$ ,  $x_2$ ,  $x_3$ ,  $x_4$ ,  $x_5$ ,  $x_6$ ,  $x_7$ ,  $b_8$  .....  $x_n$  respectively.

a is constant,

wis Human labour cost in Rs./ha,

is Seed or sapling or animal or fingerling cost in Rs./ha,

m is Fertilizer or nutrient cost in Rs./ha,

is Plant protection or animal or fingerlings medicine cost in Rs./ha,

wis Machinery or equipment used cost in Rs./ha,

is Transportation cost in Rs./ha,

wis Marketing cost in Rs./ha,

is Miscellaneous cost in Rs./ha and

y is the total cost in Rs./ha,

The function becomes linear in logarithmic form as-

 $log x_6 + b_7 log x_7 + b_8 log x_8 + \dots + b_n log x_n$ 

The Cobb-Douglas production function allows greater degree of irredom and has the advantage over other types of function as the estimate can be computed conveniently. The regression co-efficient (b<sub>1</sub>) in Cobb-Dinglas production function directly indicate the elasticity of production which measures the percentage change in output for unit percentage Cauge in the input (Bhowmick, 1975). The Cobb-Douglas production function facilitates to examine the resurce use efficiency by comparing marginal value product (MVP) to its follower cost. The marginal value product of an input is computed as follows:

MVP  $x_1 = d_y / d_x = b_1 . y / x_1$ 

Where  $b_1$  is the elasticity co-efficient of  $x_1$ ,  $x_1$  and y is the geometric means of input and output respectively.

Preferential ranking technique was utilized to identify the constraints faced by the borrowers and to rank the constraints they preference as bank problems in order of their preference. The quantification of data was done by first ranking constraints and then calculating the Rank fined Quotient (RBQ) as given by (Sabarathanam 1988), which is as

**R B Q** =  $\sum fi (n+1-i) / N \times n \times 100$ 

Wherein: fi = Number of borrowers reporting a particular problem under

N = Number of borrowers,

n = Number of problems identified.

# **CHAPTER-IV**

# PROFILE OF THE STUDY AREA

Crime, the scinaled ev - 'S'S'N bit is per eli-

inter provident

- 41 b

## CHAPTER - IV

## **PROFILE OF THE STUDY AREA**

#### **th** THESTATE

Nagaland became a constituent State of the Indian Union, the Magaland became a constituent State of the Indian Union, the Magaland on 1<sup>st</sup> December 1963. This magical valley is situated in Magaland of the Indian sub-continent, located between 25°6'N to T + N latitude and 93°20'E to 95°15'E longitude. Nagaland is bound by from in the West, Myanmar in the East, Arunachal Pradesh and part of the in the North and Manipur in the South The state is blessed with means alpine climate all year round with an average rainfall of the imm to 2,500 mm (Aye, 2012).

There are 11 districts viz., Dimapur, Kiphire, Kohima, Longleng, Holokchung, Mon, Peren, Phek, Tuensang, Wokha and Zunheboto. Inhima is the state capital. The state has a rich tradition handed through emerations. It covers an area of 16,579 sq. km (approx.) (Anonymous, 2011)

The total population of Nagaland as on 1<sup>st</sup> March 2011 stood at 1980,002 as per the provisional results of the Census of India 2011. In 1990,002 as per the provisional results of the Census of India 2011. In 1990,002 as per the provisional results of the Census of India 2011. In 1990,002 as per the provisional results of the Census of India 2011. In 1990,002 as per the provisional results of the Census of India 2011. In 1990,002 as per the provisional results of the Census of India 2011. In 1990,002 as per cent of the country. The State has registered the lowest growth rate 1990,001 during the period 2001-20011 with population growth rate of 1990,002 per cent. The sex ratio (i. e. the number of females per thousand 1991,5) was recorded as 931. Total literacy of the State rose to 80.11 per cent 1990,002 as per cent.

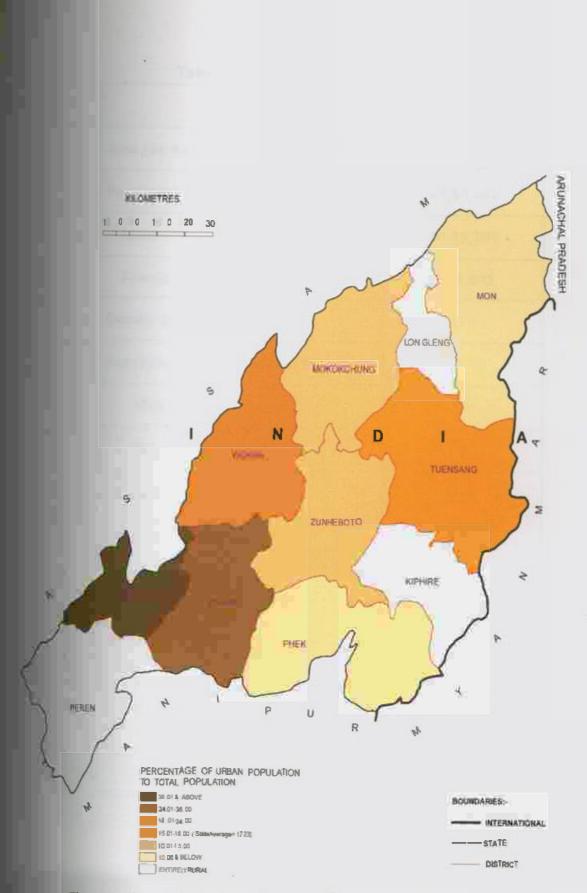


Fig. 4.1. Map of Nagaland (Source: Census of India, 2011a)

SIN	Particulars	Value
Í.	Area (sq. km)	16,579
	Population	19,80,602
2	Male	10,25,707
	Female	9,54,895
2	Density (per sq. km)	119
	Population Growth Rate (in %)	- 0.47
4	Male	- 2.05
	Female	1.27
\$	Sex Ratio	931
	Literacy Rate (in %)	80.11
5.c.	Male	83.29
	Female	76.69
t.	No. of Districts	11
8	No. of Sub-Divisions	11.4
9.	No. of Towns	26
10.	No. of Villages	1,428

## Table 4.1. Nagaland Statistics

(Source: Census of India, 201 lb)

#### 14 THE STUDY AREA

Dimapur district was inaugurated as the eighth district of Nagaland December, 1997. Earlier it was a sub-division under Kohima district. It is thing referred to as a gateway of Nagaland and Manipur and the main connectial hub of the State. Dimapur district in Nagaland is bound by Kohima district on the south and east and Assam on the west and north. Dimpurcity, the district headquarter is distinct in its character where all the different communities have congregated.

A large area of the district lies in the plains with an average evition of 260 m above sea level except the Medziphema sub-division and lew villages of Niuland sub-division, which are located in the foothills. Dimpur is situated 25° 54' 45" N Latitude and 93° 44' 30" E Longitude. The timete is hot and humid in the plains during summer (reaching a miximum of 36° C, with humidity upto 93%) while the winter months are cell and pleasant. The average annual rainfall is 1504.7 mm. The district law lour blocks/sub divisions viz., Medziphema, Kuhoboto, Nuiland and Huminipar (Anonymous, 2009)

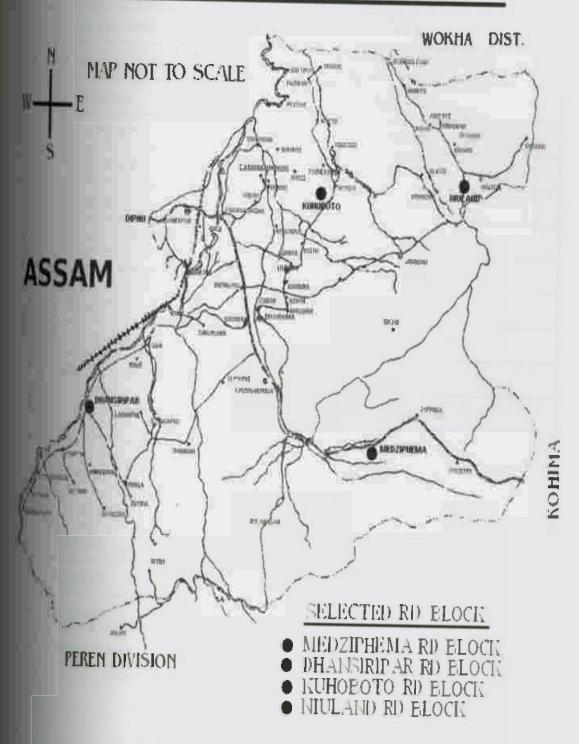
The total area of Dimapur is 927 sq. km. The total population of the deficit is 3,79,769 with a population density of 410 as per Census report

#### 121. Traditional, cultural and social identity of Dimapur district

Dimapur district draws its name from the Kachari dialect; M-meaning river, 'ma'- meaning great or big, and 'pur'- meaning city, unnoting the term 'the city near the great river'. It was once the ancient term of 13<sup>th</sup> century Kachari rulers. "Dimapur" is a later appellation.

Dimapur is the major commercial hub of Nagaland, with a

# MAP OF DIMAPUR DISTRICT





	Tabic 4,	2. Dimapur Statistics
яй	Particulars	Value
1	Area (sq. km)	927
1	Location	25°48' & 26°00' North latitude and 93°30' & 93°54' East longitude
	Population	3,79,769
t,	(a) Male	1,98,163
	(b) Female	1,81,606
1	Sex Ratio	916
5	Density (per sq. km)	410
	Literacy Rate (in %)	85.44
	(a) Male	88.07
	(b) Female	82.54
	No. of Blocks	4
	No. of Villages	204
l.	No of Households	28, 762
Ŷ	Climate	Subtropical
I.	Temperature	10° to 40° C
2	Soil pH	4.5 to 6.0
3.	Rainfall	1,500 to 2,000 mm
i.	Altitude	140 to 600 m (ASL)
5	Major rivers	Dhansiri, Diphu, Chathe, Zubza

Table 4.2. Dimapur Statistics

(Source: Krishi Vigyan Kendra Dimapur, 2010)

with as "mini India". Besides the dominant Naga tribes, who comprise that 50 per cent of the city's population, other prominent groups include togalis. Assamese, Nepalese, Biharis, Marwaris, Punjabis and also Tamils and Keralites. In the last two decades, Tibetan traders have also settled in tercity.

In Dhamsiripahar sub division, the tribes inhabiting the area is indominantly Angami, Sumi, Kachari and Chakhesang while in the understand division, the Angami tribe is predominant although a few that and Sumi villages also exist. In Kuhubolo and Niuland sub divisions, in Sumis are the predominant tribe inhabiting the areas. All these tribes their own customary laws which dominate their social life. The fulling Councils are the local bodies through which such customary laws in enacted. The norms and traditions regarding matriage, divorce, the there, death etc. are governed by such customary laws. Disputes uputingland, water and such resources and even personal disputes are the resolved based on these customary laws (Anonymous, 2013).

#### 122 Agriculture in Dimapur district

Agricultural practices in the district are TRC, rainfed and traditional. If and large, mono cropping is practiced in the district. The TRC paddy due covers an area of 32,900 ha whereas Jhum covers about 7,800 ha. ieudes, the second important crop in the district is Kharif Maize which over about 2,500 ha. Maize is generally grown as an intercrop with jhum suddy. Winter maize is also grown in certain blocks of the district which mers about 460 ha. Important Pulses are also grown in the district such as per lentil, black gram, beans, green gram, arhar grown over an area of 1.60 ha in both Kharif and Rabi season. With the favourable agro climatic inditions, oilseeds sucli as groundnut, soybean, sesame, sunflower, metard, linseed, etc. are grown in an area of 5,800 ha. Commercially viable reps such as sugarcane, ginger, jute, turmeric, tea, potato etc. are also

N	Сгор	Area (Ha)	Production (MT)	Productivity (Qt/Ha)		
Jhum p	vbbec	9,620	17,170	17.85		
1 TRC p		35,3 10	85,610	24.25		
Maize		6,680	13,120	19.64		
1 Hajta		50	40	8.00		
Ragi		30	30	10.00		
Wheat		370	630	17.03		
Barley		60	90	15.00		
- Oats		50	50	10.00		
and the second	Cereal	52,170	1,16,740	22.38		
Tur / A		400	370	9.25		
ut Afrid / N	loong	90	80	8.89		
Cowpe	a	160	230	14.38		
1 Horse	gram	40	40	10.00		
n Pea		660	60.0	9.09		
t Lentil		440	330	7.50		
6 Gram		90	70	7.78		
Black g	ram	110	80	7.27		
Total p	oulses	1,990	1,800	9.05		
Ground	Inut	120	130	10.83		
Soya b	can	2,010	2,490	12.39		
Castor		50	40	8.00		
5 Sesame	2	620	390	6.29		
Sunfloy	wer	590	310	5.25		
Rapese	ed / Mustard	4,120	4, 13 0	10.02		
U Linseed	í	1,080	870	8.06		
Total o	ilseed	8,590	8,360	9.73		
a Sugarci	anc	1, 100	47,840	434.91		
Ramie		20	0	0.00		
Jute		770	1,390	18.05		
Polato		590	7,420	12.5.76		
a Tea (gr	een)	2,860	12,720	44.48		
7 Tapioca	1	90	2,120	235,56		
Coloca:	ssia	240	2,290	95,42		
n Mesta		250	470	18.80		
Total C	Commercial Crops	5,920	74,250	125,42		

Table 4.3. Area and Production of major Agricultural Crops in Dimapur district

(Source: Statistical handbook of Nagaland, 2011a)

rown in the district, covering an area of 1,580 ha (Anonymous, 2010a)<sup>2</sup>. The area, production and productivity of the major agricultural crops trawn in Dimapur district is given in Table 4.3.

#### 423, Horticulture in Dimapur district

In Nagaland, fruits and vegetables are produced in an area of 2000-26300 ha with the total production of 25600-32000 tonnes respectively, of which Dimapur district contributes major portion of production. Commercial cultivation of pineapple, banana, cashew nut and imm is also followed in the district. The Horticulture Technology Mission (IIIM) has helped to a great extent in popularizing the cultivation of including floriculture. Dimapur is gifted with a unique pography and varied agro-climatic and soil conditions, which offers opportunities to cultivate a variety of horticultural crops like vegetables mil fruits. Among vegetables, spring summer (cucurbits, bhindi, beans), emmer (cucurbits, bhindi, beans) as well as winter vegetables (cabbage, culiflowers, carrot, radish, palak, pea, etc.) are being cultivated in the dutricts. Fruits like pineapple, guava, lemon, litchi, and mango are the mor ones covering the area in district. Among floriculture, the immercial crop is Anthurium (Anonymous, 2010b)2. The area, production and productivity of the major horticultural crops grown in Dimapur durat is given in Table 4.4.

#### 1.14 Animal Husbandry in Dimapur

Livestock farming, particularly poultry farming contributes municularly towards the livelihood of the farmers. Dairy farming is being pucticed by a number of farmers in the district. The milk is collected by the Dimapur Milk Union Limited at 4<sup>th</sup> Mile Dimapur and is processed for Suproduction of milk products like milk packets, curd and ghee etc. Dairy

~83~

<b>SN</b>	Сfop	Area	Production	Productivity		
L	Sweet Potato	(Ha)	(MT)	(Qt/Ha)		
		100	1000	100.00		
	Cabbage	110	1000	90.91		
2	Cauliflower	70	140	20.00		
L	Brinjal	45	300	66.67		
3	Chilly	300	2100	70.00 68.18		
4	Pea	220	1500			
1	Beans	100	700	70.00		
X	Bhindi	50	200	40.00		
9	Tomato	100	500	50.00		
H)	Gingef	200	3000	150.00		
8	Garlic	10	20	20.00		
E.	Radish	50	300	60.00		
В	Colocasia	100	2,000	200.00		
U.	Tapioca	450	3,600	80.00		
15	Xanthophylum	10	60	60.00		
10	Onion	200	256	12,80		
R	Naga cucumber	40	240	60.00		
RN.	Leafy Vegetables	500	20.00			
19	Others	600	4,000	66.67		
	Vegetables and Spices	3,255	21,916	67.33		
10	Lemon	300	2,400	80.00		
21	Pomelo	10.5	500	47.62		
2	Pomegranate	15	50	33.33		
23	Papaya	60	400	66.67		
X	Banana	310	3,050	98.39		
8	Guava	20	100	50.00		
5	Mango	50	100	20.00		
27	Litchi	70	140	20.00		
u.	Jack-fruit	25	40	16.00		
9	Pineapple	1900	24,000	126.32		
IJ	Mosambi	20	60	30.00		
I	Others	120	250	20,83		
	Fruits	2,995	31,090	103.81		

## Tible 4.4. Area and Production of major Horticultural Crops in Dimapur district

(Source: Statistical handbook of Nagaland, 2011b)

Inning is mainly practiced by Nepalese and other state people. Piggery is poultry farming are very common in the district. In rural areas of the infinite each and every household have minimum 1-2 pigs and 5-6 nos. of poultry birds in the backyard of house. Most of the farmers follow busyard system of poultry rearing, however, some farmers with higher imber of poultry birds follows deep litter system. In case of backyard poultry system, the birds are fed with broken rice/ maize seeds in morning ind evening. After poultry, duckery is the other popular form of livestock taming in the district. Goat and rabbit farming are limited to small scale Anonymous, 2010c)<sup>2</sup>.

# CHAPTER-V

# FINDINGS & DISCUSSION

#### CHAPTER - V

## FINDINGS AND DISCUSSION

The various data collected through secondary and primary means was systematically and by using suitable technique, table formulation interpretation was done. Keeping in mind, the objectives of the study, the reacted approached the problems from different aspects.

The results are presented and discussed under the following heads-

- AL BANK SCENARIO IN NA GALAND
- 54 STATUS OF CO-OPERATIVE BANK IN NAGALANO
- **LL SOCIO-ECONOMIC STATUS OF THE RESPONDENTS**
- **54. LAND INVENTORIES OF THE RESPONDENTS**
- **CARPPING PATTERN OF THE RESPONDENTS**
- LE LIVESTOCK INVENTORIES OF THE RESPONDENTS
- **15. H5H PRODUCTION OF THE RESPONDENTS**
- **EX RESPONDENTS' PLANTATION**
- **L**. EXPENDITURE AND INCOME OF THE RESPONDENTS
- MALEMPLOYMENT GENERATED
- EMPLOYMENT AND INCOME
- LL. RESOURCE USE EFFICIENCY
- **UL STATUS OF BANK LOAN RECEIVED BY THE BORROWERS**
- **THE PROBLEMS FACED BY THE BORROWERS**
- A.S. PROBLEMS FACED BY THE BANK(ERS)

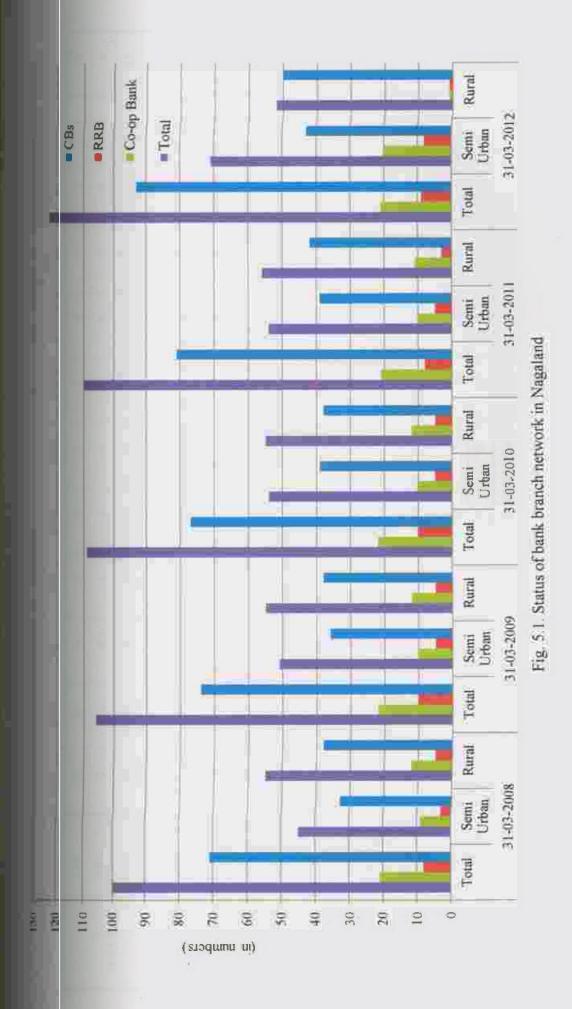
#### **MANK SCENARIO IN NAGALAND**

#### HI. Bank branch network in Nagaland

As on 31<sup>M</sup> March 2012, there are 19 Commercial Banks with 93 branches, As on 31<sup>M</sup> March 2012, there are 19 Commercial Banks with 93 branches, As on 31<sup>M</sup> March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 93 branches, and 1 Co-operative Bank with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 19 Commercial Banks with 21 March 2012, there are 2012, there are 2012, there 2012, Table & L Bank branch network in Nagaland

(in numbers)

Yerr↓	Agency→	CBs	RRB	Co-op Bank	Total
	Rural	50	1	1	52
16-03-2012	Semi Urban	43	8	20	71
	Total	93	9	21	123
	Rural	43	3	.11	57
11-03-2011	Semi Urban	39	5	10	54
	Total	82	8	21	Ш
	Rurai	38	5	12	55
11-03-2010	Semi Urban	39	5	10	54
	Total	77	10	22	109
	Rural	38	5	12	55
11-02-2009	Semi Urban	36	5	10	51
	Total	74	10	22	106
	Rural	38	5	12	55
-07-2008	Semi Urban	33	3	9	45
	Total	71	8	21	100



Total	8	90	21	111	78	10	21	109	74	10	21	105	11	8	20	66
time	1	0	0	1	-	0	0	1	-	0	0	1	-	0	0	1
μa	3	0	1	3	2	0	1	3	4	0	-	er)	2	0	1	3
Nip	-	0	1	3	-	0	1	2	-	0	1	2	-	0	1	2
Num	7	0	1	2	4	0	1	s	×	0	110	4	m	0	4	+
Mie	*1	0	3		5	1	3	6	3	÷	m	6	8	0	3	90
WOR	10	1	1	8	9	1	1	8	9	1	1	80	9	1	1	00
NNR	10	1	3	14	10	-	3	14	6	1	э́с	13	6	1	3	13
Zanc	÷2	1	1	7	5	2	1	90	4	3	2	<b>90</b>	÷	-1	1	9
Tuo		0	-	s	4	0	1	5	4	0	1	85	4	0	1	5
Rott	16	*	4	23	14	6	+	21	14	3	4	21	13	m	-7	20
Dim	28	2	s	35	26	2	65	33	25	2	4	16	23	2	4	29
Districtere	CBs	RRB	SCB	Total	CBs	RRB	SCB	Total	CBs	RRB	SCB	Total	CBs	RRB	SCB	Total
Yun (	31-03-2011				AL ON MADE	0102-00-10			Mar 10 11	4007-00-10		31-03-2008				

Dim-Dunapur; Koh-Kohima: Tue-Tuensang, Zun-Zunheboto; Mkg-Mokokchung: Wok-Wokha; Phe-Phek: Kip-Kiphire; Per-Peren; Lon-Longleng

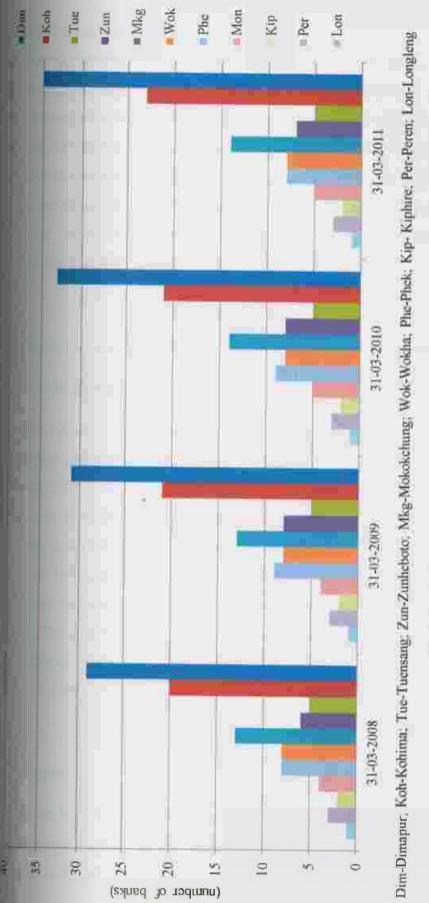


Fig. 5.2 District-wise distribution of bank branches in Nagaland

are 52 bank branches located in rural areas and 71 in semi-urban areas. It showed that there is a least growth in the bank branches in the past few us as seen in Table 5.1 and Fig. 5.1. The current network of banking in the ishowever far from being adequate. Out of the 74 Development Blocks in Nguland, 32 Blocks are still un-banked. The people living in the un-banked its have to travel a long way to the nearest banks. The bank branches failed unach the areas where they are needed the most, the rural areas. Most of the lifts are situated in the commercial hubs like Dimapur, Kohima, thickchung and Wokha as given in Table 5.2 and Fig. 5.2.

### 512 Credit, Deposits and Credit-Deposit Ratio in Nagaland

#### 121. Credit (Loans and Advances)

The status of loan and advances from NABARD in Nagaland over the real years is given in Table 5.3. The total loans and advances outstanding as an March 2012 was found out to be  $\gtrless$  1,72,451 lakhs, which was also the linest ever recorded in terms of amount. Examination of the table showed due there is an increase in the overall growth rate from 10.34 per cent in 200-11 to 16.10 in 2011-12. The major share of advances during the year 2011-12 was released to the Commercial Banks followed by the RRB and then the SCB. The agency-wise break-up indicates that the SCB has the highest 2004th rate of 59.79 per cent, followed by the RRB with growth rate of 50.00 presentand then the CBs with a growth rate of 13.25 per cent.

#### 11.2.2. Deposits

As on March 2012, the aggregate deposits of all the bank operating in the state stood to  $\gtrless$  6,09,869 lakhs, with an overall growth rate of 64.08 per that from 24.37 per cent in 2010-11, as given in Table 5.4. The RRB with has ~86~

and the second se				(< 111 1016/13)
Agency → Year 1	CBs	RRB	SCB	TOTAL
2011 - 2012	1,57,616.00	1,611.00	13,224.00	1,72,451.00
	(13.25)	(50.00)	(59.79)	(16.10)
2010 - 2011	1,39,181.00	1,074.00	8,276.00	1,48,531.00
	(9.72)	(23.22)	(20.07)	(10.34)
<b>200</b> – <b>2</b> 010	1,26,853,19	871.62	6,892.71	1,34,617.52
	(18.62)	(8.56)	(2.28)	(17.59)
2008 - 2009	1,06,939,00	80291	6,739.04	1,14,480.95
	(23.68)	(1.38)	(12.34)	(22.76)
2607 - 2008	86,463.00	792.00	5,999.00	93,254.00
	(35.18)	(2.19)	(8.13)	(32.68)
200 - 2007	63,959.31	775.00	5,548.13	<b>70,282.44</b>
	(47.95)	(9.77)	(24.22)	(45.20)

Tule 5.3. Status of bank Loans and Advances from NABARD in Nagaland

(? in lakhs)

(Figure in the parentheses indicates the growth rate in percentage.)

## 1445.4. Status of bank deposits in Nagaland

(₹ in lakhs)

Vear 1	CBs	RRB	SCB	TOTAL
D11-2012	5,67,62000	5,755.00	36,494.00	6,09,869.00
	(13.92)	(3641)	(13.76)	(64.08)
2010 - 2011	4,98,268.00	4,219.00	32,080.00	5,34,567.00
	(25.07)	(27.19)	(14,12)	(24.37)
2009 - 2010	3,98,405.77	3,316.96	28, 111. 5 5	4,29,834.28
	(20,13)	(37.18)	(35.63)	(21.15)
2938 - 2009	3,31,656.00	2,418.00	20,727.00	3,54,801.00
	(27.76)	(4001)	(11.72)	(26.77)
2007 - 2008	2,59,600.00	1,727.00	18,552.00	2,79,879.00
	(16.75)	(11.28)	(13.56)	(16.50)
2007 - 2007	2,22,352.84	1,552.00	16,337.31	<b>2,40,242</b> .15
	(13.21)	(-3.53)	(12.61)	(13.04)

(Figure in the parentheses indicates the growth rate in percentage)

in highest growth rate of 36.41 per cent followed by the Commercial Banks and a growth rate of 13.92 per cent and then the SCB with 13.76 per cent. In major share of deposits is seen from the Commercial banks with deposits 115.67,620 lakhs, followed by SCB with ₹ 36,494 lakhs and the RRB with 15.67,620 lakhs.

#### 123. Credit-Deposit Ratio

The Credit-Deposit (CD) ratio of all the banks over the past years in the is given in Table 5.5 and Fig. 5.3. It was observed that the overall CD as on March 2012 has slightly increased from 27.79 during 2010-11 to Bank-wise analysis revealed that only the SCB has an increase in the CD to 36.24 from 25.80 during 2010-11. On analysing of the table, the SCB in the highest credit deposit growth rate of 40.46 per cent. This indicates that SCB had performed better than their counterpart in terms of bank credits mideposits.

#### and Bank Annual Credit Plan (ACP) in Nagaland

The banks in the State have been financing production and investment invites in the farm as well as the non-farm sectors. The Annual Credit Plan with entire banks in Nagaland is given in Table 5.6 and Fig. 5.4. The Annual Credit Plan was estimated to the tune of  $\gtrless$  32,479.32 lakhs during the year 2011-12, for the disbursement to the priority sectors. The overall flow of credit tunng the year 2011-12 showed that the credit plan for Agri and Allied sciots had increased (63.54 per cent), while other sectors (22.30 per cent) and bustices (14.16 per cent) had decreased.

~87~

July 5.5. Status of bank Credit-Deposit Ratio in Nagaland

(in pefcentage)

Agency → Year 1	CBs	RRB	SCB	TOTAL
3447-2012	27.77	27.99	36.24	28.28
	(-0.59)	(9.97)	(40.46)	(1.77)
2 (0 - 2911	27.93	25.46	25,80	27.79
	(-t2.27)	(-3.13)	(5.22)	(-11.28)
209-2010	3t.84	2628	24,52	31.32
	(-1.25)	(-20.86)	(-24.59)	(-2.94)
32,24		33.21	32.51	32.27
(-3.19)		(-27.59)	(0.55)	(-3.16)
287 - 2008	33.31	45.86	32,34	33.32
	(15.79)	(-8.16)	(-4.78)	(13.89)
254 - 2007	28.76	49.94	33.96	29.25
	(30.68)	(13.79)	(10.3t)	(28.45)

(Figure in the parentheses indicates the growth rate in percentage)

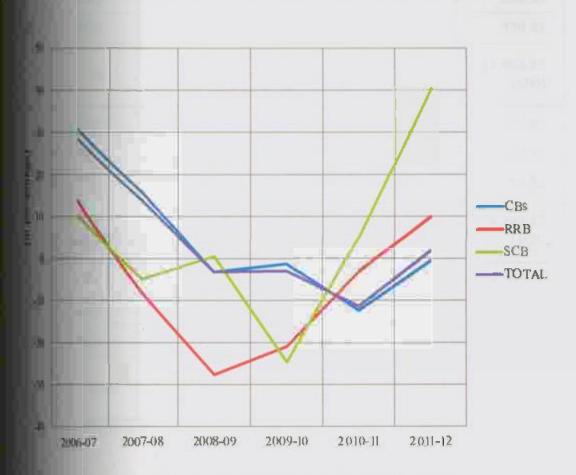


Fig. 5.3. Status of Credit-Deposit growth rate in Nagaland

# Table 5.6. Distribution of bank Annual Credit Plan in Nagaland

(₹ in lakhs)

J

Wettr 1	Agency	Agri & Allied	Industries	Others	Total (Achievements)
n l	CBs	18,950.74	4,545.98	5,793.19	29,289.91
	RRB	1,396.04	53,63	1,096.66	2,546.33
3H - 2012	SCB	290.32	0.00	352.76	643.08
	Total	20,637.10 (63.54)	4,599.61 (14,16)	7,242.61 (22.30)	32,479.32 (100)
	CBs	2,953.00	2,879.00	4,756.00	10,588.00
	RRB	109.00	0,00	363.00	472.00
20-2011	SCB	604.00	29.00	509.00	1,142.00
	Total	3,666.00 (30,04)	2,908.00 (23.83)	5,628.00 (46.12)	12,202.00 (100)
	CBs	3,326.86	1,771.55	6,236.75	11,335.16
	RRB	131.26	0.00	117.27	248.53
3997-2010	SCB	379.43	0.00	0.00	379.43
	Total	3,837.55 (32,08)	1,771.55 (14.81)	6,354.02 (53,11)	11,963.12 (100)
	CBs	2,543.57	1,631.68	3,548,40	7,723.65
	RRB	83.10	0,00	111.28	194.38
200-2009	SCB	224.14	0.00	0.00	224.14
	Total	2,850.81 (35.01)	1,631-68 (20.04)	3,659.68 (44.95)	8,1 <b>42</b> .17 (100)
	CBs	3,206.24	1,858.00	7,000.94	12,065.18
	RRB	23.35	0.00	23.45	46.80
2008	SCB	237-34	0.00	0.00	237.34
	Total	3,466.93 (28.07)	1,858.00 (15,05)	7,024.39 (56.88)	12,349.32 (100)

(Figure in the parentheses indicates the percentage of credit plan)



Fig. 5.4. Distribution of sector-wise share of Annual Credit Plan in Nagaland

(suyal m ≯)

#### 114. Status of Kisan Credit Card (KCC) in Nagaland

A total of 16,800 numbers of Kisan Credit Card were fixed under the formal Credit Plan with a credit sanction of ₹ 3,926.15 lakhs during the manual year 2011-12 as given in Table 5.7 and Fig. 5.5. The highest chievement was made by the CBs whose achievement percentage was 59.71 for cent followed by the SCB with 51.06 per cent achievement and the RRB sillionly 21.71 per cent achievement. The overall achievement was found out use 55.40 per cent which is only half the mark of the total sanction amount and numbers.

#### 115 Share of NABARD refinance in Nagaland

NABARD refinance support for meeting investment credit of banks ming the year 2011-12 was to the tune of ₹ 615.04 lakhs, as given in 144 5.8. Of the total amount, 81 per cent (₹ 500 lakhs) was refinanced to the 5.3 and the other 19 per cent (₹ 115.04 lakhs) was refinanced to the CBs, thereas, the RRB was not refinanced as shown in Fig. 5.6.

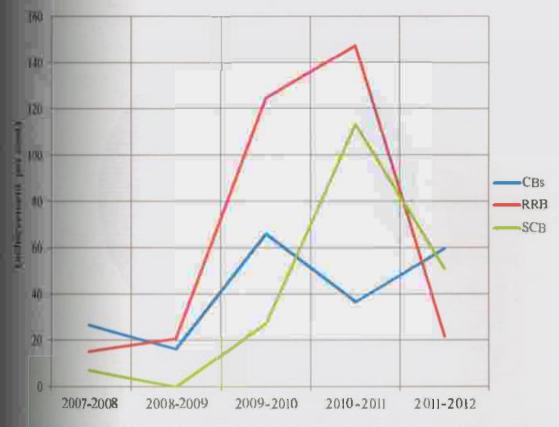
#### 12 STATUS OF CO-OPERATIVE BANK IN NAGALAND

#### 11. Management and Meetings

The Nagaland State Co-operative Bank management is governed by and of Directors comprising of 16 Directors, of whom the State Government represented by the Addl. Chief Secretary & Finance Commissioner, missioner & Secretary Co-operation & the Registrar of Co-operative representative from NABARD as ex-officio Member, besides one becom representing Primary Agricultural Co-operative Societies from each the and the Managing Director of NSCB, who is the Member Secretary.

## Tude \$.7. Status of Kisan Credit Card (KCC) in Nagaland

Ter :	Agency	Target (in nos)	Achieved (in nos.)	Achievement (in%)	Credit Sanctioned (₹ in lakhs)
	CBs	16,800,00	10,032,00	59,71	3,926,15
	RRB	1,700.00	369.00	21.71	91.31
11 - 2012	SCB	3,500.00	1,787.00	51.06	233.56
	Total	22,000.00	12,188.00	55.40	4,251.02
	CBs	8,400,00	3,092.00	36.81	1,072,00
	RRB	670,00	988,00	147,46	144,08
	SCB	1,730.00	1,959.00	113.24	278,25
B-	Total	10,800.00	6,039,00	55.92	1,494.33
	CBs	8130.00	5,369,00	66.04	1,461.33
	RRB	450,00	561,00	124.67	114,90
- 2010.	SCB	1,645,00	449,00	27.29	44,26
	Total	10,225.00	6,379.00	62.39	1,620,49
	CBs	6,630.00	1,078,00	16,26	293,29
	RRB	1,200.00	249,00	20.75	61,85
-1000 ·	SCB	0,00	233.00	-	16,35
	Total	7,830.00	1,560.00	1992	371.49
	CBs	6,356.00	1,699,00	26,73	389,09
-	RRB	387.00	59,00	15.25	14,75
N001	SCB	1,000.00	72,00	720	7,20
	Total	7,743.00	1,830.00	23.63	411.04





Time 5.8. Agency-wise	share	of NABARD	refinance	in	Nagaland
-----------------------	-------	-----------	-----------	----	----------

(₹in lakhs)

Year	CBs	RRB	SCB	Total	
<b>2010</b> - 2011	115.04	0.00	.500.00	615.04	
	(59.17)	(0.00)	(40.00)	(43.59)	
209 - 2010	46,97	0,00	300.00	346.97	
	(-528,06)	(0,00)	(100.00)	(14.98)	
700x - 2009	295.00	0.00	0.00	295.00	
	(51.02)	(0.00)	(0.00)	(5 1.02)	
144.50		0.00	0.00	144,50	
(-3864)		(0.00)	(0.00)	(-38.64)	
29)6 - 2007	200.33	0.00	0.00	200.33	
	(32,12)	(0.00)	(0.00)	(32,12)	

(l'igure in the parentheses indicates the growth rate in percentage)

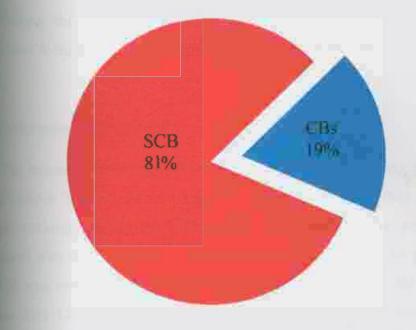


Fig. 5.6. Shareof NABARD refinance during 2010-11

laste 5.9. Meetings held	(in numbers				
Meeting Held	2007-08	2008-09	2009-10	2010-11	2011-12
and Meeting	2	4	5	6	3
Leative Committee	2	-	-	2	-
840	1	2	1	1	2
Caral Loan Committee	1	1	1	1	2
cos-Committee	-	2	1	1	1
ulea Committee	-	1	1	1	1
ula Committee	-	2	1	1	1
Total	6	12	10	13	10

During the past few years the meetings of the Board of Directors,

#### **522** Performance of the SCB

The financial highlights and progress achieved during the past years is funded under Table 5.10 and Fig. 5.7. It was observed that the SCB had an many working capital of ₹ 38,854.53 lakhs during the year 2011-12. The investment was seen to have a negative growth rate of -2.66 per cent, but the  $\bigcirc$  Ratio was recorded the highest over the years with 36.00 per cent during the year 2011-12 with a growth rate of 41.29 per cent which was a drastic improvement over the previous year (2010-11), with a growth rate of only 192 percent. The recovery performance was also observed to have improved, in a recovery performance of 60.78 per cent. The overall Net Profit-Loss was that to be highest during the year 2011-12 with a net profit growth rate of 12.99 per cent. The accumulated loss during 2011-12 was found to be -1.98 and intensing since the year 2009-10 to the present year 2011-12.

#### 3221. Membership

During the financial year 2011-12 the total membership rose to 13,150 with a growth rate of 15.05 per cent from 11,430 with a growth rate of 11 percent during 2010-11. The highest growth rate was recorded highest in 11 these years, during the 2011-12.

#### 522.2. Sources of Funds

Funds required for lending and investments are raised through owned mus, Public deposits and borrowings from the State Govt., and NABARD.

The share capital also was observed to have increased with a growth from 3.54 per cent (₹ 3,290.80 lakhs) during 2010-11 to 7.88 per cent (1554,49) during 2011-12. During the year 2011-12, Capital Fund of the Bank sourced from Share capital contributed by the State Govt., amounting to (1724.21 lakhs, Co-operative Institutions amounting to ₹ 265.34 lakhs, Sourced from Share contributing ₹ 555.69 lakhs and share capital deposit of (125 lakhs. It is evident from Fig. 5.8 that, the highest share of capitals in all (125 lakhs. It is evident from Fig. 5.8 that, the highest share of capitals in all (125 lakhs. It is evident from Fig. 5.8 that, the highest share of capitals in all

The total reserves was found to be highest during the year 2011-12 which stood at ₹ 382.79 lakhs (growth rate of 7.29 per cent) as on 31 March 202 but the growth rate was found highest during the year 2007-08 with a month rate of 36.39 per cent.

The own funds was found out to be ₹ 3,932.28 with a growth rate of #percent as on March 2012 which was also recorded the highest.

Deposits form the biggest share of resource of the Bank. During the mod under report, the Bank with its existing deposit schemes, continue to oblize a sizable deposit. The deposits of the Bank have increased from 12310.50 lakhs as on March 2011 to ₹ 36,683.45 lakhs as on March 2012, using it the highest total deposits (growth rate of 13.53 per cent). It was there d that though the total deposits have increased, the growth rate of 1310 deposits have been decreasing during the past years.

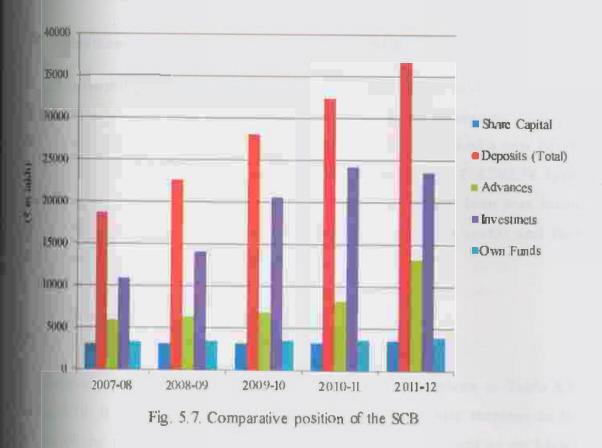
Under borrowings, it was found out that there has been only a marginal much in the overall borrowings during the year 2011-12, from  $\gtrless$  1,013.82 (96.68 per cent growth rate) in the previous year to  $\gtrless$  1,027.98 lakhs (140 per cent growth rate) as on March 2012. The high est source of borrowings (140 per cent growth rate) as from the NABARD ARF (Refinance) to the tune of 150 lakhs, followed by NABARD SAO with  $\gtrless$  375.10 lakhs and then by (STEDC borrowings of  $\gtrless$  69.13 lakhs. The 5.10. Co-operative Bank performance in Nagaland

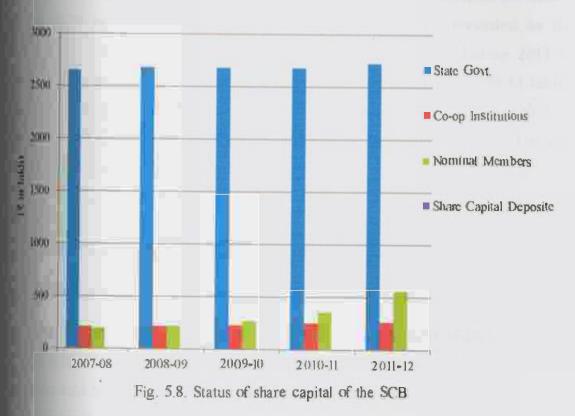
(₹in lakhs)

Particulars	2007-08	2008-09	2009-10	2010-11	2011-12
Membership Total Nos.					
In Co-operatives	2,975	3,029	3,121	3,427	3,571
	(1.22)	(1,82)	(3.04)	(9,80)	(420)
no State Govt.	1	1	1	1	1
	(0,00)	(0,00)	(0.00)	(0,00	(0.00)
and the Co-operative fold	6,662	7, <b>528</b>	7,962	8,002	9,578
	(1274)	(13,00)	(5.77)	(0.50)	(19.70)
un Toul Nos.	9,638	10,558	11,084	11,43 0	13,150
	(8.92)	(9.55)	(4,98)	(3.12)	(15.05)
Murce of Fund (in ₹)				1000	
ta Share Capital	3,062.89	3.117.49	3,17769	3,290.08	3,549.49
	(1.80)	(L.78)	(1.93)	(3.54)	(7.88)
41 Sanc Goys.	2.652.21	2,679.21	2,679.2l	2,679.21	2,724.21
	(0.00)	(1.02)	(0.00)	(0.00)	(1.68)
nii Co-op Institutions	2,1307	218.72	227,01	25].15	265.34
	(2,86)	(2.65)	(3.79)	(10,63)	(5.65)
iii) Nominal Members	197,61	219, <b>5</b> 6	271.47	.355,47	555.69
	(32,30)	(11,11)	(23,64)	(30,94)	(56.33)
iv) Share Capital Deposit	0,00	0,00	0.00	4.25	4.25
	(0,00)	(0,00)	(0,00)	(000)	(0,00)
(b) Reserves (free)	259.9]	315.34	329.31	.356.77	382.79
	(36.39)	(21.33)	(4.43)	(8.3 <b>4</b> )	(7.29)
(2) Own Funds	3,322,80	3,432.83	3,507,00	3,646.35	3,932.28
	(3,86)	(3.31)	(2,16)	(3.97)	(7.84)
(d) Deposits (Total)	18,726.34	22,597,41	28,111,88	32,310.50	36,683.45
	(-28.67)	(20,67)	(24,40)	(14.94)	(13,53)
u Chiment	1,964,03	2,234,62	1,493.67	2,2]4.34	2,454,38
	(24,09)	(13,78)	(-33.16)	(48.25)	(1084)
a) Savings	9,96602	12,156,08	15,480.35	17,593,7	20,349,13
	(17,90)	(21,98)	(27.35)	(13,65)	(15.66)
iii) Demand Deposits (1 + 2)	11.930.05	14,390.70	16,974.02	19,808.04	22,803.51
	(18.87)	(20,63)	(17.95)	(16.70)	(15.12)
w)Time Deposits (3 + 4)	6,796,29	8,206.7 <u>1</u>	11, <b>13</b> 7. <b>86</b>	12,502,46	13,879,94
	(9.93)	(20,75)	(35,72)	(12.25)	(11.02)
o Borrowings (Total)	89.67	74.39	515,47	1,013.82	1,027.98
	(-47.71)	(-17.04)	(592.93)	(96.68)	(1.40)

	1				
(ENABARD (SAO)	0,00	0,00	146.34	200.00	375.10
	(0,00)	(0,00)	(0.00)	(36.67)	(87.55)
IIII NABARD (ARF)	14.41	0.00	<b>300</b> ,00	740,00	580,00
	(-74.34)	(00, 0)	(0,00)	(146.67)	(-21,62)
INABARD (CDF)	0,00	0,00	0,00	4,69	3.75
	(0,00)	(0,00)	(0,00)	(0,00)	(-20.04)
err Govt, of Nagaland	0,00	0,00	0,00	0,00	0,00
	(0,00)	(0,00)	(0.00)	(0,00)	(0,00)
IN INSTEDIC	75.26	74.39	69.13	69.13	69.13
	(0.00)	(-116)	(-7,07)	(0.00)	(0.00)
100 Others	0,00	0,00	0.00	0.00	0,00
	(0,00)	(0,00)	(000)	(000)	(0.00)
Working Capital (average in ₹)	18,247,87	21,885,60	27,61796	33,784,80	38,854.53
	(12,47)	(19,94)	(26,19)	(22,33)	(15,01)
Cash & Bank Balances (in ?)	1, <b>568</b> .36	2,284,94	1,410,24	1,312.63	1,864.56
	(11793)	(45,69)	(-38.28)	(-6,92)	(42,05)
lavestmen'ts (in ₹)	10,920, 74	14,102.51	20,607,77	24,21186	23,568,54
	(9,80)	(29,14)	(46,13)	(17.49)	(-2,66)
Advances (in ?)	5,919,28	6,339,80	6,892,81	8,232.37	13,209,04
	(9,49)	(7,10)	(8,72)	(19,43)	(60.45)
C : D Ratio (in %)	31.61	28, 10	24,52	25,48	36.00
	(-5.16)	(~11, 10)	(-12,74)	(3.92)	(41,29)
Remery performance (in %)	.56.91	59,56	.59,88	58.40	60,78
	(16.71)	(466)	(0.54)	(-2.47)	(4,08)
(herducs (in ₹)	2,310,76	2,096,51	<b>2,096,67</b>	2,438, <b>18</b>	2,753,13
	(1.05)	(-9,27)	(0,01)	(1629)	(12.92)
Set Profit (+) / Loss (-) (in ₹)	.24.96	-1,303,71	50, 58	61.56	87,47
	(-106.86)	(-5,323,20)	(-103, 88)	(21.71)	(4209)
Accumulated Losses (in 7)	3,217,70	4,521,41	4,470,83	4,409.27	4,321.80
	(-0,77)	(40,52)	(-1,12)	(-1.38)	(-1.98)

(Figure in the parentheses indicates the growth rate in percentage)





#### a Deployment of Loans and Advances by the SCB

The distribution of the annual flow of loan and advances during the past howed that it is increasing year after year in an increasing order, as Table 5.11. The total flow of credit from the SCB reached a new height 142.91 lakhs during the year 2011-12, while it was ₹ 4,762.74 lakhs the year 2010-11. The flow of credit to the consumer loan was found followed by cash credit, then agriculture and allied sector and then for medium term loan, as shown in Fig. 5.9.

#### **ELL** Recovery performance of the SCB

Recovery position of the State Cooperative Bank is given in Table 5.12 and Fig. 5.10. It was found out that there was a significantly increase in the every of the principal credit distributed from 58.40 per cent as on March 60.78 per cent as on March 2012, which was also recorded as the ever recorded on recovery. The recovered principal during 2011-12 minut to be  $\gtrless$  4,266.24 lakhs with an overdue amount of  $\gtrless$  2,753.13 lakhs. In fighest interest amount recovered was also during the year 2011-12 minut to  $\end{Bmatrix}$  1,117.94 lakhs, with an overdue amount of  $\gtrless$  1,171.54 lakhs and ever recovery of 48.83 per cent.

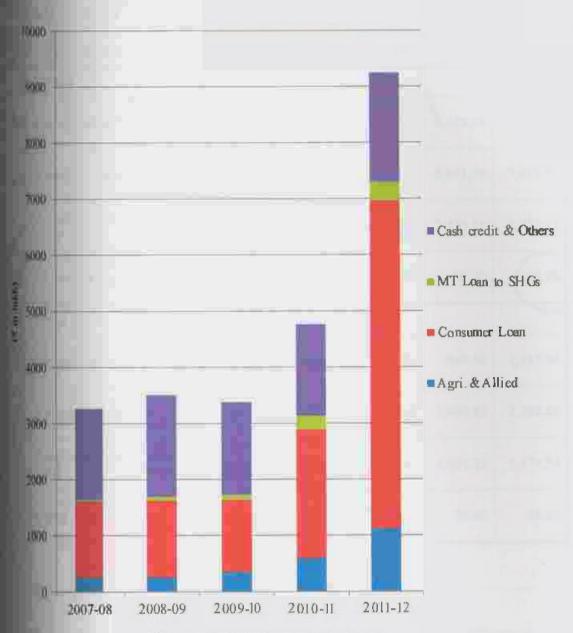
#### **ELSOCIO-ECONOMIC STATUS OF THE RESPONDENTS**

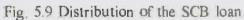
#### Distribution of respondents according to land holding

The distribution of the respondents according to land holding is given table 5.13. There were a total of 120 respondents, 60 respondents from the provers and 60 from the non-borrowers. The borrowers had 10 respondents this per cent) with Marginal land holdings, 40 respondents with small land

Table 5.11. Distribution of SCB annual flow of Loans and Advances (₹in lakhs)

8	Purpose wise credit/ loan	2007-08	2008-09	2009-10	2010-11	2011-12
ľ.	Khanf Crop	169.43	168.65	177.42	255.24	280.11
1	RathCrop	16.13	23,53	26,43	6,49	24.10
	KCC	10.54	17.04	89.39	227.76	268.99
	Piggery	17.83	12.05	44.92	95.55	449.40
1	Dairy	13,05	4.65	5.25	2.10	8.30
	Fishery	0.27	0,51	2.32	0.50	4.99
	Poukry	5,18	1.44	3.83	10.10	1.2.0
	Other Allied purposes	19.84	.29, 51	5.05	0	82.37
	SRTO	78.84	89.84	.228,80	285.76	519.49
1	Rural Housing	418.72	337.32	436.64	636.63	1,719.36
	SSI Units	11.64	1.50	6,50	28,70	12.22
	Weaving	0.00	0.00	0.00	3.00	0.00
	Business & Nagri loans	72.29	92.71	45.53	312.43	65.79
8	Consumer durables/ Service Loan	775.93	841.80	561.34	1,019.63	3,530.36
	MT Loan to SHGs	28.86	71.21	97.15	254.74	333.15
	Cash credit & Others	1,628,42	1,816.52	1,652.55	1,624.11	1,943.08
	Total	3,266.97	3,508.28	3,383.12	4,762.74	9,242.91





## Table 5.12. Recovery performance of the SCB

(₹in lakhs)

N	Particulars	2007-08	2008-09	2009-10	2010-11	2011-12
	Prompal			1.1.1.1	N TON I A	
41.	Recovery during the period	3,051.87	308,76	3,128.93	3,423.18	4,266.24
-	Demand for the period	5,36263	5,18427	5,225.60	5,861.36	7,019.37
49	Overdues at the end of the period	2,310,76	4,875.51	2,096.67	2,438.18	2,753.13
44	Recovery to demand (%)	56.91	59.56	59.88	58.40	60.78
1	Interest					
50	Collected during the period	802.44	835,76	813.36	669.56	1,117.94
-	Demand for the period	1,742.33	1,686,16	1,665.93	1,690.83	2,289.48
10	Overdues at the end of the period	939,89	850,40	852,57	1,021.27	1,171.54
10	Interest Recovery (%)	46.06	49.57	48,82	39.60	48.83

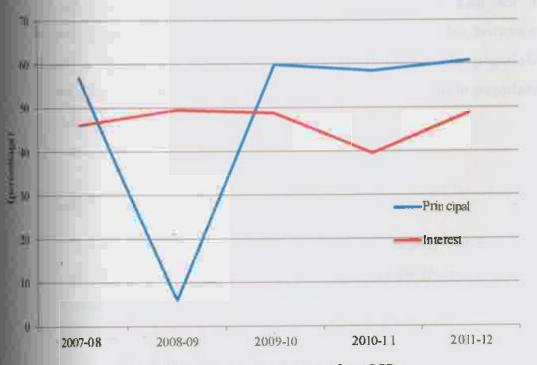


Fig. 5.10. Recovery percentage of the SCB

Things (66.67 per cent) and 10 respondents with Medium size land holding percent). On the other hand the non-borrowers had 8 respondents with Varginal land holding, 32 respondents with Small land holdings bits per cent) and 20 respondents with Medium size land holdings (13) per cent).

#### 112 Distribution of respondents according to activity

The distribution of the respondents according to activity is given in The distribution of the respondents according to activity is given in The 5.14. Both the borrowers and non-borrowers each had 7 respondents per cent) with agricultural based activities, 20 respondents the per cent) with fishery based activities and 33 respondents (55 per cent) animal husbandry activities.

#### 133. Distribution of respondents' family demography

Family profile of the respondents is given in Table 5.15. The average mills size of the bortowers was found to be 5.53 and 4.80 for the tothorrowers in the study area. The table revealed that under borrowers, mile population (55.20 per cent) was higher that the female population (180 percent). The same applies for the non-borrowers with male population (52.5 per cent) higher than the female (47.74 per cent).

#### The Distribution of respondents' family educational status

The educational qualification of the respondents' family can be noticed num Table 5.16. The sample respondent's farm family illiteracy was found out the 6.18 per cent for the borrowers and 15.63 per cent for the non-borrowers. The proportion of male and female literacy rate under borrowers was found

Table 5.13. Distribution of respondents according to land holding

10	9
1.100	<b>b2 b</b>
1.111	110.1
1	

and Holdings	Category	Borrowers	Non-Borrowers
< 0,5	Marginal	10	8
	Group 1	(16.67)	(13.33)
0.5 - 1.0	Small	40	32
	Group 11	(66,67)	(53.33)
1.0-2.0	Medium	10	20
	Group III	(16.67)	(33.33)
Total		60 (100)	60 (100)

(Figure in the parenthesis represents the percentage)

tion of reprodents according to estivity

hie 3.14. Distribution	of respondent	s according to	activity	(in numbers
Activities	Group 1	Group II	Group III	Total
Agriculture	0	3	4	7
	(0.00)	(5.00)	(6.67)	(11.67)
Fishery	0	15	5	20
	(0.00)	(25.00)	(8,33)	(33.33)
Animal Husbandry	10	22	1	33
	(16.67)	(36.67)	(1.67)	(55.00)
Total	10	40	10	60
	(16.67)	(66.67)	(16.67)	(100)
Agriculture	3	1	3	7
	(5.00)	(1.67)	(5.00)	(11,67)
Finhery	1	13	6	20
	(1.67)	(21.67)	(10.00)	(33.33)
Ammal Husbandry	4	18	11	33
	(6.67)	(30.00)	(18,33)	(55.00)
Total	8	32	20	60
	(13.33)	(53.33)	(33.33)	(100)

(Figure in the parenthesis represents the percentage)

## fulle 5.15. Distribution of respondents' family demography

(in numbers)

K	mgory	Sample Size	Male	Female	Total	Average
	Marginal	10 (1667)	27 (8.14)	23.5 (7.09)	50.5 (15.23)	5,05
Week.	Small	40 (66,67)	12.6.5 (38, 16)	103 (31.07)	22.9.5 (69.23)	5.74
	Medium	10 (1667)	29.5 (8.90)	22 (6.64)	51.5 (15.54)	5,15
	Total	60 (100)	183 (55.20)	148.5 (44.80)	331.5 (100)	5,53
	Marginal	8 (13,33)	25 (8.68)	19 (6.60)	44 (15.28)	5.50
	Small	32 (53.33)	79.5 (27.60)	77 (26.74)	156.5 (54.34)	4,89
THE PARTY I	Medium	20 (33_33)	46 (15.97)	41.5 (14.41)	87,5 (30,38)	4,38
	Total	60 (100)	150,5 (52,25)	137.5 (47.74)	288 (100)	4.80

(Figure in the parentheses represents the percentage)

TRUE T. D. DURBROUND OF COMPARING TIMUS STATISTICS, STATISTICS

0			DWERS	BORR		S	BOWER	NON-BOB	ŧ
Groups		Group I	Group II	Group III	Total	Group I	Group II	Group III	Total
Total Sumple	Bizc	50.5 (15.23)	229.5 (69.23)	51.5 (15.54)	331.5 (100)	44 (15.28)	156.5 (54.34)	87.5 (30.38)	288 (100)
	W	3 (0.90)	6.5 (1.96)	3 (0.90)	12.5 (0.77)	2 (0,69)	9.5 (3.30)	6 (2.08)	17.5 (6.08)
Illucture	ţi.	2.5 (0.75)	5.5 (1.66)	0 (00.0)	8 (2.41)	7 (2.43)	-11 (3.82)	9.5 (3.30)	27.5
	T.	5.5 (1.66)	12 (3.62)	3 (0.90)	20.5 (6.18)	9 (61.6)	20.5 (7.12)	15.5 (5.38)	45 (15.63)
	M	8 (2.41)	37 (11.16)	7 (2.11)	52 (15.69)	12 (4.17)	34 (11.81)	18 (6/25)	64 (22.22)
Primary	н	3 (0.90)	25 (7.54)	3 (0.90)	31 (9.35)	3 (1.04)	26 (9 03)	16 (5,56)	45 (15.63)
f	1	11 (3.32)	62 (18.70)	10 (3,02)	83 (25.04)	15 (5.21)	60 (20.83)	34 (11.81)	109 (37,85)
	W	11 (3.32)	59 (17.80)	11.5 (3.47)	81.5 (24.59)	9 (3.13)	29 (10.07)	16 (5.36)	54 (18.75)
High School	14	15 (4.52)	52.5 (15.84)	11 (3.32)	78.5 (23.68)	6 (2.08)	31 (10.76)	12 (4.17)	49 (17.01)
ol Litterrete	ч.	26 (7.84)	111.5 (33.63)	22.5 (6.79)	160 (48.27)	15 (5.21)	60 (20.83)	28 (9.72)	103 (35.76)
	M	5 (1.51)	24 (7.24)	8 (2.41)	37 (11.16)	2 (0.69)	7 (2,43)	6 (2.08)	15 (5.21)
Crindunte & above	۵.	3 (090)	20- (6,03)	8 (2.41)	31 (9.35)	3 (1.04)	9 (3.13)	4 (1.39)	16 (5.56)
DOVE	1	8 (2.41)	44 (13.27)	16 (4.83)	68 (20.51)	5 (1.74)	16 (3.56)	10 (3.47)	31 (10.76)
	W	27 (8.14)	126.5 (38.16)	29.5 (8.90)	183 (55.20)	25 (8.68)	79.5 (27.60)	46 (15.97)	150.5 (52.26)
Total	14	23.5 (7.09)	103 (31.07)	22 (6.64)	148.5 (44.80)	(09.6) (6.60)	77 (26.74)	41.5 (14.41)	137.5 (47.74)
	۲	45 (13.57)	217.5 (65.61)	48.5 (14.63)	311 (93.82)	35 (12.15)	136 (47.22)	72 (25.00)	243

(Figure in the parentheses represents the percentage)

M- Male, F-Female, T-Total

to be 55.20 per cent for male and 44.80 per cent for female, whereas for the inhomowers it was found out to be 52.74 per cent for male and 47.74 per for the female. This depicts that male literates was found to be higher females. On the type of education level attained, High School level was in to be prevalent (48.27 per cent) under borrowers and Primary schooling its percent) under non-borrowers.

#### 115 Occupation of the respondents' family

The occupation of the respondents' family is given in Table 5.17.1 and the 5.17.2. It was found out that the borrowers main occupation was enculture (44.77 per cent) and also with a dominant agriculture as their condary occupation (70.93 per cent). Under non-borrowers agriculture was and out to be their primary occupation (48.70 per cent) and also their condary occupation (41.75 per cent). These findings revealed that excultural activity played a dominant role in the study area.

#### SUG. Work force of the respondents' family

A perusal of Table 5.18 reveals the work force of the respondents. The stal work force of the borrowers was found to be 81.60 per cent, contributed male with 42.84 per cent and female with 38.76 per cent of workers of the stal borrowers' population. For the non-borrowers total workforce was found to be 78.13 per cent, contributed by 42.01 per cent male workers and 11 per cent female workers. The mate workers in both the case was found to whighet than the female workers. and a state of the state of the state of the

	1	24.5 (14.24)	120.5 (70.06)	27 (15.70)	172 (100)	28 (14.51)	102.5 (53.11)	62.5 (32.38)	193 (100)
Total		12.5 (7.27)	59 (34,30)	11 (6.40)	82.5 (47.97)	12 (6.22)	49 (25.39)	30.5 (15.80)	91.5 (47.41)
	N.	12 (6.98)	61.5 (35.76)	16 (9.30)	89.5 (52.03)	16 (8.29)	53.5 (27.72)	32 (16.58)	101.5 (52.59)
	#	2.5 (1.45)	8.5 (4.94)	2 (1.16)	13 (7.56)	12 (6.22)	23.5 (12.18)	6.5 (3.37)	42 (21.76)
0,011	4	1.5 (0.87)	3 (1.74)	0 (0.00)	4.5 (2.62)	7 (3.63)	14 (7.25)	5.5 (2.85)	26.5 (13.73)
	W	(0.58)	5.5 (3.20)	2 (1.16)	8.5 (4.94)	5 (2.59)	9.5 (4.92)	1 (0.52)	15.5 (8.03)
ĺ		(01.16) Z	26 (15.12)	7 (4.07)	35 (20,35)	2 (1.04)	8 (4.15)	5 (2.59)	15 (7.77)
SILIN	4	0(00.0)	8 (4.65)	3 (1.74)	11 (6.40)	1 (0.52)	4 (2.07)	1 (0.52)	6 (3.11)
	M	2 (1.16)	18 (10.47)	4 (2.33)	24 (13.95)	1 (0.52)	4 (2.07)	4 (2.07)	9 (4.66)
	٣	10 (5.81)	27 (15.70)	10 (5 81)	47 (27.33)	7 (3.63)	19 (9.84)	16 (8.29)	42 (21.76)
WUS)	1	5 (2.91)	16 (9.30)	5 (2.91)	26 (15.12)	0 (00.0)	8 (4.15)	7 (3.63)	15 (7.77)
	N	5 (2.91)	11 (6.40)	5 (2.91)	21 (12.21)	7 (3.63)	11 (5.70)	9 (4.66)	27 (13.99)
	#	10 (5.81)	59 (34.30)	8 (4.65)	77 (44.77)	7 (3:63)	52 (26.94)	35 (18.13)	94 (48.70)
AGRI	ile .	6 (3.49)	32 (18.60)	3 (1.74)	41 (23.84)	4 (2.07)	23 (11.92)	17 (8.81)	44 (22,80)
	W	4 (2,33)	27 (15,70)	5 (2.91)	36 (20.93)	3 (1.55)	29 (15.03)	18 (9.33)	50 (25.91)
GROUPS		Group I	Group II	Group III	TOTAL	Group I	Group II	Group III	TOTAL
(C)			SMERS	BORRC			BOWER	ON-BOR	N

(Figure in the parentheses represents the percentage)

	GROUPS.		AGR.			Still			1140			Total	
		M	He .	- 1 - I	M	4	1	M	#	۲	W	4	-
	Group I	8 (4.65)	10 (5.81)	18. (10.47)	3 (1.74)	1 (0.58)	4 (2.33)	(0.58)	1.5 (0.87)	2.5 (1.45)	12 (6.98)	12.5 (7.27)	24.5 (14.24)
MERS	Group II	42 (24,42)	46 (26.74)	88 (51.16)	14 (8 14)	10 (5.81)	24 (13.95)	5.5 (3.20)	3 (1.74)	8.5 (4.94)	61.5 (35.76)	59 (34.30)	
вовко	Group III	8 (4.65)	8 (4.65)	16 (9.30)	6 (3,49)	3 (1.74)	9 (523)	2 (1.16)	0 (0.00)	(1.16)	16 (9.30)	11 (6.40)	
	TOTAL	58 (33.72)	64 (37.21)	122 (70.93)	(13.37)	14 (8.14)	37 (21.51)	8.5 (4.94)	4.5 (2.62)	13 (7.56)	89.5 (52.03)	82.5 (47.97)	_
S	Group I	5 (2.58)	4 (2.06)	9 (4.64)	5 (2.58)	5 (2.58)	10 (5.15)	60 (0)	3 (1.55)	9 (4.64)	16 (8,25)	12 (6.19)	28 (14.43)
BOWER	Group II	23 (11.86)	18 (9.28)	41 (21.13)	23 (11.86)	10 (5.15)	33 (17,01)	7.5 (3.87)	21 (10.82)	28.5 (14.69)	53/5 (27.58)	49 (25.26)	
NO8-NO	Group III	18 (9.28)	13 (6.70)	31 (15.98)	9 (4.64)	9 (4.64)	18 (9.28)	5 (2.58)	9.5 (4.90)	14.5 (7.47)	32 (16.49)	31.5 (16.24)	63.5 (32.73)
ÍŇ	TOTAL	46 (23.71)	35 (18.04)	81 (41.75)	37 (70.01)	24 (12.37)	61 (31.44)	18.5 (9.54)	33.5 (17.27)	52 (26.80)	101.5 (52.31)	92.5 (47.68)	194 (100)

(Figure in the parentheses represents the percentage)

(constraint)	F	41 (12.37)	185.5 (55.96)	44 (13.27)	270.5 (81.60)	34 (11.81)	119 (41.32)	72 (25.00)	225 (78.13)
Total Work Flores		20 (6.03)	88.5 (26.70)	20 (6.03)	128.5 (38.76)	16 (5.56)	56 (19.44)	32 (11.11)	104 (36.E1)
Tou	W	21 (6.33)	97 (29.26)	24 (7.24)	142 (42.84)	18 (6.25)	63 (21.88)	40 (13.89)	121 (42.01)
	#	9.5 (2.87)	43.5 (13.12)	8 (2.41)	61 (18.40)	10 (3.47)	37.5 (13.02)	15.5 (5.38)	63 (21.88)
Non-workers	u.	3.5 (1.06)	15 (4.52)	2 (0.60)	20.5 (6.18)	3 (1.04)	21 (7.29)	9.5 (3.30)	33.5 (11.63)
4	M	6 (1.81)	28.5 (8.60)	6 (1.81)	40.5 (12.22)	7 (2.43)	16.5 (5.73)	6 (2.08)	29.5 (10.24)
	.I.	17 (5.13)	71 (21.42)	17 (5.13)	105 (31.67)	15 (521)	54 (18.75)	28 (9.72)	97 (33.68)
Helpers	ц.,	8 (2.41)	31 (9.35)	8 (2.41)	47 (14.18)	7 (2.43)	28 (9.72)	13 (4.51)	48 (16.67)
	W	9 (2.71)	40 (12.07)	9 (2.71)	58 (17.50)	8 (2.78)	26 (9.03)	15 (5.21)	49 (17:01)
	Ţ	24 (7.24)	114.5 (34.54)	27 (8,14)	165.5 (49.92)	19 (6.60)	65 (22.57)	44 (15.28)	128 (44.44)
Workiers	E.	12 (3.62)	<i>57.5</i> (17.35)	12 (3.62)	81.5 (24.59)	9 (3.13)	28 (9.72)	19 (6.60)	56 (19.44)
	М	12 (3.62)	57 (17.19)	15 (4.52)	84 (25.34)	10 (3.47)	37 (12.85)	25 (8.68)	72 (25.00)
GROUPS		Group 1	Group II	Group III	TOTAL	Group I	Group II	Group III	TOTAL
			SMERS	BORISC		St	BOWEI	ON-BOB	N

(Figure in the parentheses represents the percentage)

M- Malo; F- Female; T- Total

Yante N.H. Ourriturius of responsions, taulty work for

#### **IA LAND INVENTORIES OF THE RESPONDENTS**

#### H.t. Respondents' land holdings

The distribution of respondents' land holdings is given in Table 5.19. In overall average land holding was found to be 0.73 ha for the borrowers of 0.89 ha for the non-borrowers. Under borrowers, Group I have an average inlings of 0.43 ha, Group II with 0.69 ha and Group III with an average of 14 The non-borrowers Group I have and average holdings of 0.44 ha, 2010 II with 0.78 ha and Group III with 1.24 ha. The finding also revealed 14 farmers in the study area mostly cultivate their own land and no land was 2010 out in both the cases (borrowers and non-borrowers).

#### Max Respondents' land use pattern

The distribution of respondents' land use pattern is given in Table 5.20. The borrowers as a whole had a land holding of 43.92 ha. Of this, the sum un utilization was found to be for the use of agricultural operation. Ind under vegetable cultivation accounts for 30.16 per cent and land under lady accounts for 27.11 per cent of the total land holdings, followed by obey (16.08 per cent). The sample non-borrowers have a total land holding 153.33 ha. The maximum land use was seen under agriculture for the induction of paddy accounting for 35.87 per cent and vegetable cultivation with 15.39 per cent of the total available land.

#### **SA CROPPING PATTERN OF THE RESPONDENTS**

#### IN. Respondents' area and production of agricultural crops

The respondents' area and production of agricultural crops is given in Table 5.21. The borrowers in total cropped an area of 46.34 ha, with a total Tille 5.19. Distribution of respondents' according to land holding

(in ha)

	Groups	Sample Size	Owned land	Leased in	Lcased out	Total land available	Average land holding
	Group 1	10 (16.67)	4,30 (9,79)	0.00 (0.00)	0,00 (0,00)	4.30 (9.79)	0,43
CONTRACTOR	Group II	40 (66.67)	25.06 (57.07)	2.66 (6.05)	0.00 (0.00)	27.72 (63.12)	0.69
A NETHOCARD	Group III	10 (16.67)	7.03 (16.00)	4.87 (11.09)	0 (0.00)	11.90 (27.09)	1.19
	TOTAL	60 (100)	36.39 (82,86)	7.53 (17.14)	0,00 (0.00)	43.92 (100)	0.73
	Group I	8 (13_33)	3. <b>48</b> (6.53)	0.00 (0.00)	0,00 (0.00)	3.48 (6.53)	0,44
Name of Concession, Name o	Group II	32 (53,33)	25.02 (46.89)	0.00 (0.00)	0,00 (0,00)	25_02 (46_89)	0.78
ALL ALL	Group III	20 (33.33)	22,04 (41.31)	2. <b>8</b> 1 (5.27)	0,00 (0.00)	24,85 (46,58)	1.24
	TOTAL	60 (100)	50.55 (94.73)	2.81 (5.27)	0,00 (0,00)	53.36 (100)	0,89

(Figure in the parentheses represents the percentage)

Fable 5.20. Describingin of respondence land are balled

1ª	****	of the second	Agriculture	utture	Under Animal		Contraction of the local distribution of the		100	
	ednours	towening wrea	Paddy	Veg	Husbandry	Flantation	Fishery	Barren	Others	Total
-	Group I	1.03 (2.34)	0.27 (0.61)	1.87 (4.26)	0.17 (0.38)	0.74 (1.68)	0.11 (0.25)	0.03 (0.06)	0.09 (0.20)	4.30 (9.79)
-	Group II	4.24 (9.65)	7.36 (16.75)	8,23 (18.73)	0.54 (1.22)	2.14 (4.87)	4.76 (10.85)	0.27 (0.61)	0.19 (0.43)	27.72 (63.12)
~	Group III	1.61 (3.67)	4.28 (9.75)	3 14 (7.16)	0.30)	0.47 (1.07)	2.19 (4.98)	0.00 (0.00)	0.08 (0.18)	11.90 (27.09)
	TOTAL	6.88 (15.66)	11.91 (27.11)	13 24 (30.16)	0.83 (1.90)	3.34 (7.62)	7.06 (16.08)	0.29 (0.67)	0.36 (0.81)	43.92 (100)
-	Group I	1.10 (2.06)	1.27 (2.38)	0.71 (1.34)	0.02 (0.04)	00.00	0.38 (0.71)	0.00 (0.00)	00.0)	3.48 (6.53)
	Group II	6.02 (11.28)	9.51 (17.83)	4.22 (7.92)	0.15 (0.28)	1.34 (2.51)	3.63 (6.81)	0.07 (0.13)	0.08 (0.15)	25.02 (46.91)
-	Group III	4.10 (7.69)	8.09 (15.18)	3.27 (6.14)	0.15 (0.28)	6.02 (11.29)	2,53 (4.75)	0.27 (0.50)	0.39 (0.74)	24.83 (46.55)
	TOTAL	11.22 (21.04)	18.87 (35.39)	8.21 (15.39)	0.32 (0.60)	7.36 (13.80)	6.54 (12.27)	0.33 (0.62)	0.48 (0.89)	53.33 (100)

CHEMICENCE 1443

11:467.90 (59.59) U.292.57 (10,47) 30,045.70 46,349,50 142.38 6,654.34 (34,49) (64.80) (24.73) (5.92) 600 (0001) Total 327.18 (1.05) 81.878 (0.84) CHIMERS. 60,14) 8.75 (0.05) 56.41 (0.29) 97.50 (0.51) Vogetable 2,075.90 2,448 10 (5.28) 4,716.20 (10.17) 9,240,20 (10:08) 4,594.44 (23.81) (5.33) (8.41) CHARMER 1,189.97 (6.17) 2,443.50 (5.27) 3,307,25 (7,13) Ditsel 803.75 342.97 (1.78) 847.00 (0.13) 0000 4,207.63 (9,07) (6.56) (2.47) 2,070,00 (1.84) (1.84) Pulses 992.63 832.75 (4.32) 78.13 (0.40) (Figure in the parentheses represents the percentage) 28,736.25 20,331,00 (43,85) 12,079,94 (62.61) 4,278,44 (22,18) 7,774.00 (40,30) (3.25) 6,896.25 Cormits (14.87) (0.14) (191.18 4,163.78 (100.00) (33.96) 4,361.84 (100,00) 2,514.80 (60.40) (40,75) (47,04) (19.00) 166701 Total Contern 44.30 (2.83) 44.34 (1.02) 00,22 (07:0) 44.35 (0,26) 16.05 (0.37) 17.15 (0.39) Vegetables 896.38 (14:35) 204,40 414.10 (3,90) 206.72 (4.74). 249.25 1011188 VIMING OLDI Dilieut (2.56) 13.56 (0.31) 44.06 (1.01) 79,20 2.00. 25.50 (0.61) 1.25 (0.03) 29.25 (0.67) (3-61) (3-61) (3.32) (6.93) Putkes 75.45 (1.81) 74.90 20.00 (0.46) 90.35 47.31 2,754.50 (66.15) [839.00 (44.17) (38,19) 3,489.81 (80.01) (18.44) 1,197.81 (27.46) Certaille (3.54) 768,00 626.25 (14.36) Sumple (16.67) 40 (66.67) 10 (16.67) 8 (66.61) 32 (53.33) 20 (33.33) (00) (001) Crupped Crupped (in ha) 38.90 16.33 25.28 36.69 16.31 31.07 125 5.02 FOTAL. TOTAL. Group-II Group III Group I. Group III Group II Group I Chaupy BORROWERS NON-BORBOMERS

while \$2.7. When it to a sequention of reasonable and an output area and at whee that

## **PHOTO GALLERY**

sumpse of agricultural activities undertaken by the respondents':



(1) Researcher interacting with respondent under Medziphema block



(2) Researcher interacting with respondent under Dhansiripar block



61 Researcher interacting with group of respondents under Medziphema block



(4) Researcher with respondent under Medziphema block



Finate respondent from Medziphema block



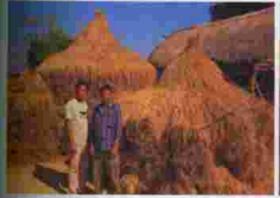
(6) On-farm group photo of researcher with respondents from Medziphema block



in Researcher interacting with group of respondents of Medziphema block



(8) Researcher with respondent from Dhansiripar block



W Researcher On-farm interaction with respondent under Dhansiripar block



(10) Researcher interacting with repondents from Medziphema block



(1) Researcher interacting with groups of respondent under Medziphema block



(12) Researcher with female respondent under Dhansiripar block



Durant interaction with formale appointent under Dhansiripar block



(14) Researcher On-farm interaction with respondent under Dhansiripar block



MilView of respondents\* paddy field under Medziphema block



(16) Inter-cropping of paddy with legumes by the respondents of Medziphema block



Indigenous method of bunching to prevent paddy from falling



(18) Respondents' farm family harvesting paddy at Dhansiripar block



1700m-site stacking of harvested paddy



(20) Off-site stacking of harvested paddy



In Threshing of paddy using bullock at Dhansiripar block



(22) Threshing of paddy using power tiller at Medziphema block

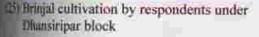


Respondents' rapeseed field at Medziphema block



(24) Respondents' mustard field at Medziphema block







(26) Respondents' soya bean field at Medziphema block



 Sweet pea farm of respondents at Diunsiripar block



(28) Cabbage farm of respondents under Dhansiripar block



B) Radish cultivation by respondents under Medziphema block



(30) Tomato cultivation by respondents under Medziphema block

table revealed that, major share of production comes from cereals counting for 66.15 per cent of the total production and also with the highest out value (61.97 per cent) of the total sold out value. On the other hand, non-borrowers have a total cropped area of 36.69 ha, with a total maintion of 4,361.84 kg and a total sold out value of ₹ 19,292.85. Comparing data the income generated from the borrowers had a higher sold out ulin than the non-borrowers.

#### 52 Respondents' cost of cropping

The average cost of cropping for the borrowers was found out to be 18.276.65 and ₹ 28,595.69 for the non-borrowers as given in Table 5.22. The cumum cost incurred under cropping for both the borrowers and in-borrowers was the cost of labour. For the borrowers the owned labour is hered labour accounts for 52.33 per cent and 15.39 per cent respectively. Thereas for the non-borrowers it was found out to be 36.38 per cent and 100 per cent for owned and hired labour respectively. The cost of production in found to increase with the increased in the land holding i.e. from immal to medium size land holding.

### **WENTOCK INVENTORIES OF THE RESPONDENTS**

#### 1. Respondents' livestock inventories

The distribution of respondents' livestock inventories is given in Table 5.23. The borrowers, on an average had a total current livestock value of 19,663 and the non-borrowers with a current average value of ₹ 15,173.33. The highest number of livestock's reared by the borrowers and non-borrowers respondent family was reported from poultry, with an average of 4.08 and

~95~

		Borrowers	AWREN			Non-Uo	NameBorrowers	
Items	Group-1	Group-II	Group-III	TVLOL	Group-1	Group-II	Group-III	TVLOL
Sample Size	10	40	10	60	90	32	20	60
Owned Labour	4,770.00 (9.88)	7,666.50 (15.88)	12,828.00 (26,57)	25,264.50 (52.33)	3,03750 (10.62)	3,300.00 (11.54)	4,065.00 (14.22)	10,402.50 (36.38)
Hired Labour	350.00 (0.72)	2,330,00 (4.83)	4,750.00 (9.84)	7,430,00 (15.39)	950.00 (3.32)	2,234,38 (7,81)	3,365.00 (11.77)	6,549,38 (22,90)
Seed cost	360.00 (0.75)	980.75 (2.03)	(57.73)	3.140.75 (6.51)	431.25 (1.51)	667.19 (2.33)	900.00 (3.15)	1,998.44 (6.99)
Chemicals/Manures /Salts	52.00 (0.11)	32.25 (0.07)	65.00 (0.13)	149.25 (0.31)	0.00	9.38 (0.03)	92.50 (0.32)	101.88 (0.36)
Tools	[44.00 (0.30)	262.00 (0.54)	495 50 (1.03)	(1.87)	117.50 (0.41)	103.44 (0.36)	96.00 (0.34)	316.94 (1.11)
Bullock & Machinery Labour	560.00 (1.16)	1,016.25 (2.11)	1,865.00 (3.86)	3,441.25 (7.13)	534.00 (1.87)	923.75 (3.23)	1,223,60 (4,28)	2,681.35 (9.38)
Transportation	355.00 (0.74)	843,50 (1.75)	L_539.00 (3,19)	2,737.50 (5,67)	342.00 (1.20)	639.75 (2.24)	871.10 (3.05)	1,852.85 (6.48)
Marketing Charges	345.60 (0.72)	623.30 (1.29)	1,197.40 (2.48)	2,166.30 (4,49)	400.50 (1.40)	692.81 (2.42)	917.70 (3.21)	2,011.01 (7.03)
Other Charges	806.40 (1.67)	885.60 (1.83)	1,353.60 (2.80)	3,045.60 (6.31)	534.00 (1.87)	923,75 (3.23)	1,223.60 (4.28)	2,681.35 (9.38)
Total	7,743.00 (16.04)	14,640.15 (30.33)	25,893.50 (53,64)	48,276.65 (100)	6,346.75 (22.19)	9,494.44 (33,20)	12,754.50 (44.60)	28,595.69 (100)

(Figure in the parentheses represents the percentage)

A second contract of complementations. We put on he of

Removed (nr         Value (nr           59         3,81,000           59         3,81,000           150         9,07,500           23         1,39,500           23         1,39,500           23         1,39,500           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         2,59,500           53         2,59,500           53         2,59,500           53         2,59,500           53         2,59,500           53         6,90,000	Willie (m. 5)         Rearred (m. Noo.)           3,81,000         4           9,07,500         17           9,07,500         17           1,39,500         4           1,39,500         4           1,39,500         25           14,28,000         25           96,000         0           3,34,500         25           3,34,500         25           3,34,500         35           6,90,000         35
	Remed (IITNON) 17 17 17 17 17 25 25 25 25 25 10 10 10 35
Allocation         Reserved to None           9.600         6           42.400         22           9.600         5           9.600         33           61,600         33           61,600         33           61,600         33           27,200         2           72,800         16           72,800         16	
9,6000 9,6000 42,4000 9,6000 61,600 61,600 61,600 12,6000 45,600 72,800	

(Figure in the parentheses represents the percentage)

.

birds respectively. The maximum present value was seen from piggery wh an average value of ₹ 23,800 per borrower family and ₹ 11,500 per borrower family.

#### In Respondents' cost of livestock production

The cost of livestock production on an average incurred was found out 32,496.73 and 314,653.45 for the borrower and the non-borrowers inpectively as given in Table 5.24. Under both the cases (borrowers and borrowers), the highest cost was incurred on the purchase of animals for 11,278.40 (34.71 per cent) and 35,264.18(392 per cent) respectively, followed by an average feeding cost of 32,264.18(392 per cent) for the borrowers and 3,779.96 (25.80 per cent) for in borrowers.

#### **3.3.** Returns from livestock production

The average return from livestock production for borrowers was found in to be  $\gtrless$  55,371.26 and  $\gtrless$  33,648.17 for non-borrowers as given in 1.64 5.25.1. Under borrowers, the highest average return was found out to be cattle with a return of  $\gtrless$  27,979.33 (50.53 per cent) and for the borrowers the highest average return was from piggery with an average 123,741.50 (70.56 per cent).

The item-wise breakup of return from different source as given in tube 5.25.2, revealed that of the different items sold, the sale of mature smalls contributed the highest, with an average sold out value of  $\gtrless$  30,422 big per cent) for the borrowers and  $\gtrless$  23,686.04 (70.39 per cent) for the subborrowers.

~96~

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Groups Construction Control Tout of Fooding Modeurion Medication	Fooding	Fooding	Fooding Cost				Equipments	Labour Input	Tepunporention 0035	Marketing	Others	Total Cost
5.391.96 (17.24)         1.410.50 (4.51)         244.13 (0.78)         975.00 (3.12)           5.230.45 (17.23)         1.511.00 (5.45)         1.7750 (0.64)         1.11000 (4.00)           5.230.45 (17.03)         1.511.00 (5.45)         1.7750 (0.64)         1.11000           1.886)         (5.45)         0.64)         (4.00)           1.943.63         1.434.83         256.54         985.00           1.943.63         (4.42)         (0.79)         (3.03)           1.943.63         450.00         121.25         225.00           1.943.63         450.00         (1.07)         (1.99)           1.943.63         450.00         (1.01)         (2.36)           1.943.63         (4.26)         (1.01)         (2.36)           1.943.63         (1.01)         (0.99)         (2.51)           1.943.63         (1.01)         (0.99)         (2.51)           1.792         (4.20)         (1.01)         (2.36)           1.792         (4.31)         (0.99)         (2.51)           1.773         (1.792)         (4.20)         (1.91)         (2.51)           1.7733         (4.21)         (0.99)         (2.51)         (2.51)           2.598.04	Group I 3,871.00 13,606 80 11,148.00 (35.36) (28,97)	3,871.00 13,606.80 (10.06) (35.36)	13,606 80 (35.36)		11,148.00 (28,97)	and the second s	194.00 (0.50)	1,077.50 (2.80)	5,978.70 (15.54)	1,383 00 (3,59)	348.00 (0.90)	870.00 (2.26)	38,477.00 (100)
	Group II 3,333.38 10,884.60 7,725.75 (24.70) (34.80) (24.70)	1,333,38 10,884.60 (10.66) (34,80)	10,884.60 (34,80)		7,725,75 (24,70)		329.50 (1.05)	(51.5)	5,391.96 (17.24)	1,410.50 (4.51)	244.13 (0.78)	975.00 (3.12)	31,273.94 (100)
1,434.83     256.54     985.00       (4.42)     (0.79)     (3.03)       (4.42)     (0.79)     (3.03)       450.00     121.25     225.00       (3.98)     (1.07)     (1.99)       (3.98)     (1.07)     (1.99)       602.19     142.97     334.38       602.19     142.97     334.38       797.50     182.50     465.00       (4.26)     (1.01)     (2.36)       (4.31)     (0.99)     (2.51)       (4.21)     (1.92)     341.46       (4.21)     (1.02)     (2.33)	Group III 3,101.00 9,343.80 5,856.00 (31.11) (33.68) (21.11)	3,101.00 9,343.80 (11.18) (33.68)	9,343.80 (33.68)		5,856.00 (21.11)		457.00 (1.65)	952.50 (3.43)	5,230,45 (18.86)	1,511.00 (5.45)	177.50 (0.64)	1,110.00 (4.00)	27,739.25 (100)
450.00       121.25       225.00         (3.98)       (1.07)       (1.99)         602.19       142.97       334.38         602.19       142.97       334.38         797.50       182.50       465.00         (4.31)       (0.99)       (2.31)         616.56       148.91       341.46         (4.21)       (1.02)       (2.33)	Average 3,435,13 11,278,40 8,243,25 (10.57) (34.71) (25.37)	3,435,13 11,278,40 (10.57) (34.71)	11,278.40 (34,71)		8,243,25 (25.37)		326.83 (1.01)	1,003.04 (3.09)	5,533.70 (17.03)	1,434.83 (4.42)	256.54 (0.79)	985.00 (3.03)	32,496.73 (100)
602,19         142.97         334.38           (4.26)         (1.01)         (2.36)           797.50         182.50         465.00           (4.31)         (0.99)         (2.51)           616.56         148.91         341.46           (4.21)         (1.02)         (2.33)	Group I 1,005,00 3,859.50 3,365.00 (34.11) (29.74)	1,005,00 3,859,50 (8.88) (34.11)	3,859.50 (34,11)		3,365.00 (29.74)		20.63 (0.18)	323.75 (2.86)	1,943.63 (17.18)	450.00 (3.98)	121.25 (1.07)	225.00 (1.99)	11.313.75 (100)
797,50         182,50         465,00           (4.31)         (0.99)         (2.51)           616,56         148,91         341,46           (4.21)         (1.02)         (2.33)	Group II 1,327.50 5,186.94 3,469.38 (9.38) (36.67) (24.52)	1,327.50 5,186.94 (9.38) (36.67)	5,186.94 (36.67)		3,469.38 (24.52)		85.00 (0.60)	463.91 (3.28)	2,534.47 (17.92)	602.19 (4.26)	142.97 (1.01)	334.38 (2.36)	14,146.72 (100)
616.56 148.91 341.46 (4.21) (1.02) (2.33)	Group III 1,782.75 6,746.10 4,505.50 (36.47) (24.35)	1,782.75 6,746.10 (9.64) (36.47)	6,746.10 (36.47)		4,505.50 (24,35)	-	115.25 (0.62)	589,25 (3.19)	3,316.03 (17.92)	797,50 (4,31)	182.50 (0.99)	465.00 (2.51)	18,499.88 (100)
	Average 1,371 75 5,264.18 3,779.96 (9.36) (35.92) (25.80)	1,371.75 5,264.18 3, (9.36) (35.92) (	5,264.18 3, (35.92) (	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3,779.96 (25.80)		73.63 (0.50)	458.97 (3.13)	2,598.04 (17.73)		148.91 (1.02)	341.46 (2.33)	14,653.45 (100)

(Figure 71) the parentheses represents the percentage)

The second secon

Table 5.25.1. Distribution of respondents' return from livestock production

(₹ in average)

	Groups	Cattle	Poultry	Piggery	Goatery	Total
	Group I	15,734.00 (28.35)	225.00 (0.41)	38,669.70 (69.66)	880.00 (1.59)	55,508,70 (100)
ATTACK AND	Group II	28,230,00 (51,39)	212,50 (0,39)	25,453.18 (46.33)	1,040,00 (1.89)	54,935.68 (100)
	Group III	39,974,00 (71,81)	100,00 (0.18)	13,995.40 (25.14)	1,600.00 (2.87)	55,669,40 (100)
	A.verage	27,979.33 (50,53)	179.17 (0.32)	26,039,43 (47,03)	1,173.33 (2.12)	55,371.26 (100)
	Circup I	2,252,50 (8.77)	1,187.50 (4.62)	22,240.00 (86.60)	0.00 (0.00)	25,680.00 (100)
	Group II	8,875,63 (26,87)	1,296,88 (3,93)	20,432,50 (61,86)	2,425,00 (7.34)	33,030.00 (100)
	Group III	11,035,00 (26,13)	1,487.50 (3,52)	28,552.00 (67,60)	1,160,00 (2,75)	42,234.50 (100)
	Average	7,387.71 (21.96)	1,323.96 (3.93)	23,74150 (70,56)	1, 195.00 (3.55)	33,648,17 (100)

(Figure in the parentheses represents the percentage)

	Groups	Nos.	Group I (0.003)	Group II (0.001)	ВОR Group III 0.20 (0.0004)	Average (0.002)	Group I 2.25 (0.01)	Group II (0:01)	Group III 2.90 0.01)	Z Average 2.45					
	Young	Value	3,760.00 (6.77)	1,585.00 (2.89)	600.00 (1.08)	1,981.67 (3.58)	5,050.00 (19.67)	4,606.25 (13.95)	6,220.00 (14.73)	5,292.08					
	M	Nos	4.10 (0.01)	3.35 (0.01)	2.30 (0.004)	3.25 (0.01)	6.25 (0.02)	7,22 (0.02)	8.20 (0.02)	7.22					
A Real of	Matthe	Value	39,305.00 (70.81)	30,402.50 (55.34)	21,560.00 (38.73)	30,422.50 (54.94)	20,387 50 (79.39)	22,503.13 (68,13)	28,167.50 (66,69)	23,686.04					
It works	NUT	VIIIA	9,720.00 (17 51)	18,225.00 (33.18)	26,730.00 (48.02)	18,225.00 (32.91)	0.00	4,556,25 (13.79)	6,075.00 (14.38)	3,543,75					
	East	-88	0.00 (0.00)	0.00	0.00 (0.00)	0.00	0.00	0.00 (0.00)	0.00 (0.00)	0.00					
	Manure 0		Egg Manure				D OFFITTERAS	2,453.70 (4.42)	4,536.18 (8.26)	6,639.40 (11.93)	4,543.09 (8.20)	0.00 (00.00)	1,125.00 (3.41)	1,500.00 (3.55)	875.00
	Outrans	SIDHIO	270.00 (0.49)	187.00 (0:34)	140.00 (0.25)	199.00 (0.36)	242.50 (0.94)	239.38 (0.72)	272.00 (0.64)	251.29					
	Total	1 0141	55,508.70 (100)	54,935.68 (100)	55,669.40 (100)	55,371.26 (100)	25,680.00 (100)	33,030.00 (100)	42,234.50 (100)	33,648.17					

Strates with Sample Party

## **PHOTO GALLERY**

## Cimpse of animal husbandry (Cattle) undertaken by the respondents':



ill Researcher with respondent at Medziphema block



(2) Researcher interacting with female respondent at Medziphema block



III Researcher with respondent at Dhansiripar block



(4) Researcher interacting with female respondent at Dhansiripar block

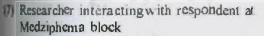


in Researcher interacting with female respondent at Medziphema block



(6) Researcher with respondent at Medziphema block







(8) Researcher interacting with female respondent form Medziphema block



19 Atypical cattle shed at Dhansiripar Block



(10) Cattle shed at Medziphema block



(II) Free-range Cattle rearing at Dhansiripar block



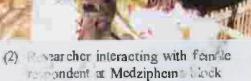
(12) Cattle shed at Medziphema block

## PHOTO GALLERY

Compse of animal husbandry (Piggery) undertaken by the respondents':



 Researcher interacting with respondent at Dhansiripar block.





(1) Researcher interacting with female respondent at Dhansiripar block



(4) Researcher with female respondent at Medziphema block



Researcher interacting with respondent at Medziphema block



(6) Researcher interacting with female respondent at Medziphema block



- (1) Researcher interacting with female respondent at Medziphema block
- (8) Researcher interacting with respondent at Medziphema block



(W) Researcher interacting with female respondent at Dhansiripar block



(10) Researcher interacting with female respondent at Dhansiripar block



(II) Researcher interacting with female respondent at Medziphema block



(12) Semi-open system of pig rearing at Medziphema block





D Female respondent of Dhansiripar block caring for the piglet

(14) Typical traditional pig sty at Medziphema block

1.12



(b) Typical modern pig sty at Meaziphema block



(16) piggery and fishery integrated farming practiced at Dhansiripar block



IT A view of items used in preparation of pg feed at Dhansiripar block



(18) A view of preparation of pig field at Medziphema block

## PHOTO GALLERY

upse of animal husbandry (Poultry) undertaken by the respondents':



Recarcher with respondent fam N at N phema block



(2) Researcher with male respondent at Medziphema block



Researcher with female respondent at Medziphema block



(4) A view of poultry farm at Medziphema block

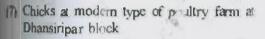


Nixew of traditional poultry farm



(6) A view of traditional chicken coop







(8) Ready for market broiters at Medziphema block



(9) View of swan goose reared by respondent at Medziphema block



(10) Integrated farming system practiced by respondents at Dhansiripar block



(II) View of poultry feeds used by respondents at Medziphema block



(12) Poultry nutrients and medication used by the respondent

### **WFISH PRODUCTION OF THE RESPONDENTS**

#### **W.I. Respondents'** cost of fish production

The cost of fish production of the respondents is given in Table 5.26. The overall average cost of fish production was found to be  $\gtrless$  11,455.63 for the binowers and  $\gtrless$  8,091.96 for the non-borrowers. The total cost incurred was und increasing with the increase in the farm size under both the cases of binowers and non-borrowers. The highest cost incurred for fish production us the feed cost, with an average cost of  $\gtrless$  4,626.53 (40.39 per cent) and 11,10.25 (44.62 per cent) for borrowers and non-borrowers respectively.

### 22. Respondents' yield and income from fish production

The respondents' average yield from fish production was found to be 1 kg, with a worth value of ₹ 25,026.67 for the borrowers, whereas for the m-borrowers, it was found out to be 154.73 kg, worth ₹ 15,472.50 as given in 1 kg = 5,27. The average sold out value of fish for the borrowers was found to 1 s = 23,670.83 and ₹ 14,760.83 for the non-borrowers. Comparatively, in terms 1 tg = kd and returns from sales of fish, the borrower was found to be better off has is counterpart, the non-borrowers.

#### **RESPONDENTS' PLANTATION**

#### Respondents' cost of plantalion

The cost of plantation for the respondents is given in the Table 5.28. The warage cost of plantation for the borrowers was found out to be  $\gtrless$  2,029.73 at  $\end{Bmatrix}$  4,086.33 for the non-borrowers. The highest cost incurred for plantation much both the cases was from the labour cost. The borrowers' human labour et was found to be 59.78 per cent, contributed by 34.16 per cent owned

Tille 5.27. Distribution of respondents yield and income from fish production

(in average)

	-	1	rield	Co	nsumed	1	Sold
	Groups	Kg	Value (Rs)	Kg	Value (Rs.)	Kg	Value (Rs.)
	Group I	24.00	2,400.00	3.00	300.00	21.00	2,100.00
DOM: NO	Group 11	256.40	25,640.00	16.28	1,627.50	240.13	24,012.50
AND REPORTS AND	Group III	470.40	47,040.00	21.40	2,140.00	449.00	44,900.00
	Average	250.27	25,026.67	13.56	1,355.83	236.71	23,670.83
	Group I	76.50	7,650.00	3.75	375.00	72.75	7,275.00
ALL DALA AND AND A	Group II	183.38	18,337.50	8.50	850.00	174.88	17,487.50
THE OWNER WATER OF THE OWNER WATER	Group III	204.30	20,430.00	9.10	910.00	195.20	19,520.00
-	Average	154.73	15,472.50	7.12	711.67	147.61	14, 760.83

(Figure in the parentheses represents the percentage)

## **PHOTO GALLERY**

timpse of fishery activities undertaken by the respondents':



III Researcher with respondent at Medziphema block



(2) Researcher with female respondent a Medziphema block



Researcher with female respondent at Medziphema block



(4) Respondent from Medziphem 1 block



II Researcher with respondent at Medziphema block



(6) Researcher with female respondent at Medziphema block



 Researcher with respondent at Dhansiripar block



(8) Researcher with female respondent at Dhansiripar block



(9) Researcher with respondent at Dhansiripar block



(10) Researcher with respondent at Medziphema block



(1) Researcher with respondent at Dhansiripar block



(12) Researcherwith respondent at Dhansiripar block



(11) View of respondent for any at Dhansiripar block

(14) View of respondent fishery at Medziphema block



(15) View of respondent fishery at Dhansiripar block



(16) View of respondent fishery at Dhansiripar block



Wew of respondent fishery at Dhansiripar block



(18) View of respondent fishery at Medziphema block



(19) View of respondent fishery at Medziphema block



(20) View of respondent fishery at Dhansiripar block





- (21) View of respondent fishery at Medziphema block
- (22) View of respondent fishery at Medziphema block





Di) A view of integrated farming at Dhansiripar block

(24) Pump-set used for dual purpose by the respondent at Dhansiripar block

amour and 25.62 per cent hired labour. Whereas, the non-borrowers had a uman labour cost of 60.62 per cent contributed by 31.35 per cent owned abour and 39.26 per cent hired labour. The next highest cost was the cost of planting materials, which was 33.82 per cent for the borrowers and 33.11 per ent for the non-borrowers.

#### 5.2 Respondents' returns from plantation

The return from plantation for the respondents is given in the lable 5.29. The average total return from plantation for the borrowers was bund to be  $\gtrless$  1,136.67 and  $\gtrless$  1,926.56 for the non-borrowers. The borrowers' mal return from sale of the products accounts for 61.58 per cent and for the two-borrowers it was 60.77 per cent. The highest sales return from plantation multiple from the sale of fruit crops, both for the borrowers and the two-borrowers with 57.18 per cent and 44.34 per cent of the total value repectively.

### EXPENDITURE AND INCOME OF THE RESPONDENTS

#### 181. Respondents' annual expenditure

The total annual expenditure of the respondents' family is given in the 5.30. The borrowers on an average per annum had a total expenditure of 1.22,346.56, whereas for the non-borrowers it was  $\gtrless$  88,838.89. The total menditure for the borrowers was incurred from on-farm expenditure mounting to  $\gtrless$  62,074.31 (50.74 per cent) and the family-needs expenditure mounting to  $\gtrless$  60,272.25 (49.26 per cent), whereas for the non-borrowers, it is found out to be  $\gtrless$  36,363.64 (30.15 per cent) for on-farm expenditure and 132,475.25 (59.07 per cent) for family-needs expenditure. The highest

~98~

Chemicals         Transportation         Marketing         Others           82.50         82.50         0.000         0.000           82.50         (3.20)         (3.20)         (0.00)         (0.00)           60.00         60.00         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (3.20)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (0.00)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)		Human Labour		Human Labour		Dissection					
Group II $660.00$ $880.00$ $1540.00$ $871.20$ $87.20$ $82.50$ $000$ $000$ Group II $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Group II $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(500)$ $000$ $000$ Group III $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Group III $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $(000)$ $000$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $(000)$ $(000)$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $(000)$ $(000)$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(32.0)$ $(320)$ $(000)$ $(000)$ Group II $000$ $000$ $(000)$ $(000)$ $(000)$ $(000)$ $(000)$ $(000)$ Group III $(31.5)$ $(31.35)$ $(33.11)$ $(31.4)$ $(31.4)$ $(000)$ $(000)$ Group III $(292.6)$ $(31.35)$ $(66.2)$ $(33.11)$ $(31.4)$ $(000)$ $(000)$ <		Groups	Hired	Owned	Total	Materials	Chemicals	Transportation	Marketing	Others	Total Cost
Group II $\frac{480.00}{(25.62)}$ $\frac{640.00}{(316)}$ $\frac{1,120.00}{(3978)}$ $\frac{633.60}{(33.82)}$ $\frac{60.00}{(3.20)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Group III $\frac{420.00}{(25.62)}$ $\frac{540.00}{(3416)}$ $\frac{5978}{(33.82)}$ $\frac{53.82}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{420.00}{(25.62)}$ $\frac{540.00}{(3416)}$ $\frac{554.40}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{50.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{520.00}{(25.62)}$ $\frac{691.33}{(3416)}$ $\frac{1,213.33}{(33.82)}$ $\frac{686.40}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{65.00}{(32.00)}$ $\frac{65.00}{(32.00)}$ $\frac{60.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{520.00}{(25.62)}$ $\frac{691.33}{(34.16)}$ $\frac{1,213.33}{(33.82)}$ $\frac{686.40}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{65.00}{(32.00)}$ $\frac{60.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{520.00}{(25.62)}$ $\frac{691.33}{(34.11)}$ $\frac{1,213.33}{(32.21)}$ $\frac{686.40}{(33.11)}$ $\frac{65.00}{(33.11)}$ $\frac{65.00}{(33.14)}$ $\frac{60.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{417.50}{(29.26)}$ $\frac{46.87}{(31.35)}$ $\frac{906.25}{(33.11)}$ $\frac{495.80}{(33.11)}$ $\frac{46.88}{(31.44)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Group III $\frac{4375.00}{(31.35)}$ $\frac{405.81}{(31.35)}$ $\frac{46.88}{(31.44)}$ $\frac{46.88}{(31.44)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{1,195.83}{(31.35)}$ $\frac{1,281.35}{(31.35)}$ $\frac{1,281.3}{(31.44)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Averag		Group I	660.00 (25.62)	880.00 (34.16)	1,540.00 (59.78)	871.20 (33.82)	82.50 (3.20)	82.50 (3.20)	0.00	0.00 (0.00)	2,576.20 (100)
Group III         420.00         560.00         980.00         554.40         52.50         60.00         0.00         0.00         0.00         0.00           Average         (25.620         (34.16)         (59.78)         (33.82)         (320)         (320)         (0.00)	MERS	Group II	480.00 (25.62)	640.00 (34.16)	1,120.00 (59.78)	633.60 (33.82)	60.00 (3.20)	60 00 (3 20)	00.00	0.00 (0.00)	1,873.60 (100)
Average         52000         69333         1,213.33         686.40         65.00         65.00         0.00 <td>BORRO</td> <td>Group III</td> <td>420.00 (25.620</td> <td>560.00 (34.16)</td> <td>980.00 (59.78)</td> <td>554.40 (33.82)</td> <td>52.50 (3.20)</td> <td>52.50 (3.20)</td> <td>00.00</td> <td>0.00 (0.00)</td> <td>1,639,40 (100)</td>	BORRO	Group III	420.00 (25.620	560.00 (34.16)	980.00 (59.78)	554.40 (33.82)	52.50 (3.20)	52.50 (3.20)	00.00	0.00 (0.00)	1,639,40 (100)
Group1         0.00         <		Average	520.00 (25.62)	693.33 (34,16)	1,213.33 (59.78)	686.40 (33.82)	65.00 (3.20)	65.00 (3.20)	0.00 (0.00)	0.00	2,029.73 (100)
Group II         437 50         468.75         906.25         495.00         46.88         46.88         66.80         0.00         0.00         0.00           Group II         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           Group III         (29.26)         3.37500         5.5500         3.56400         337.50         337.50         (0.00)         (0.00)           Group III         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)           Average         1,195.83         1,281.25         2,477.08         1,353.00         1,353.00         1,353.00         1,353.00         0.000         0.000         0.000           Average         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           Average         1,195.83         1,281.25         2,477.08         1,333.00         128.13         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)	S	Group I	0.00	0.00)	0.00	0.00	0.00)	0.00	00.00	0.00 (0.00)	0.00 (0.00)
Group III         3.150.00         3.375.00         6.525.00         3.564.00         337.50         337.50         0.00	ROWER	Group II	437.50 (29.26)	468.75 (31.35)	906.25 (60.62)	495.00 (33.11)	46.88 (3.14)	46.88 (3.14)	00.00	0.00	1,495.00 (100)
Average         1,195,83         1,281.25         2,477.08         1,353.00         128.13         128.13         0.00         0.00           (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)	NOB-NC	Group III	3,150.00 (29.26)	3,375.00 (31.35)	6,525.00 (60.62)	3,564.00 (33.11)	337.50 (3.14)	337.50 (3.14)	0.00 (0.00)	0.00	10,764.00 (100)
	N	Average	1,195.83 (29.26)	1,281.25 (31.35)	2,477.08 (60.62)	1,353.00 (33.11)	128.13 (3.14)	128.13 (3.14)	0.00 (00.00)	0.00 (00:00)	4,086.33 (100)

(Incompany)

- 2. 28. Materialized of comparison and and

Fruit crops (Rs.) Seedings (Rs.) Others (Rs.)	Home Sold Home Sold Home Sold Home	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80.00         600.00         60.00         0.00         80.00         467.50           (6.57)         (49.28)         (4.93)         (0.00)         (6.57)         (0.00)         (38.40)	70.00         525.00         52.50 $^0.00$ 70.00         52.50 $^3.20.00$ 70.00 $^3.20.00$ 70.00 $^3.20.00$ $^{3.20.00}$ ^{3.20.00}         ^{3.20.00}	86.67         650.00         65.00         0.00         86.67         0.00         436.67           (7.62)         (57.18)         (5.72)         (0.00)         (7.62)         (0.00)         436.67	0:00         0:00 <th< th=""><th>168.75         312.50         62.50         0.00         62.50         0.00         367.18           (24.83)         (45.98)         (9.20)         (0.00)         (9.20)         (0.00)         (54.02)</th><th>562.50         2.250.00         450.00         450.00         1.900.00           (11.03)         (44.12)         (8.82)         (0.00)         (8.82)         (0.00)         (3.25)</th><th>alterna att att att att att att att att att a</th></th<>	168.75         312.50         62.50         0.00         62.50         0.00         367.18           (24.83)         (45.98)         (9.20)         (0.00)         (9.20)         (0.00)         (54.02)	562.50         2.250.00         450.00         450.00         1.900.00           (11.03)         (44.12)         (8.82)         (0.00)         (8.82)         (0.00)         (3.25)	alterna att att att att att att att att att a
Timber (Rs.) Firewood (Rs.)	Home Sold Home Sold	82.50         0.00         137.50         0.00           (6.12)         (0.00)         (10.20)         (0.00)	147.50         150.00         100.00         0.00           (12.11)         (12.32)         (8.21)         (0.00)	40.00         0.00         87.50         0.00           (4.73)         (0.00)         (10.36)         (0.00)	90.00         50.00         108.33         0.00           (7.92)         (4.40)         (9.53)         (0.00)	0.00 0.00 0.00 0.00 0.00 (0.00) (0.00)	31.25         0.00         42.18         0.00           (4.60)         (0.00)         (6.21)         (0.00)	225 00         950 00         212 50         0 00           (4.41)         (18.63)         (4.17)         (0.00)	AAA 00 18 72 215 22 28 28
	admon	Group I	Group II	Group III	Average	Group I	Group II	Group III	

2 W. Philippin Statement and watered

(in much and advantation (in a)	Earth Ihmily months	ation Trunsportation Chiners Total Expenditure	5570.00 3(835.00 2,112.00 44.977.00 94.865.20 (16.41) (4.04) (2.23) (47.41) (100)	9,297,50 4,463.75 3,156,00 65,714.75 1,25,136.34 (15.42) (3.57) (3.57) (3.52) (52.51) (100)	0.00 4,485.00 2,400.00 70,125.00 1,47,037.95 71) (3.05) (1.63) (47.69) (.100)	8,342,50 4,261,25 2,556,00 60,272,25 1,22,346,56 (14,99) (3,48) (2,09) (49,26) (122,346,56 (100)	0.00 3,968.75 1,920.00 54,038.75 75,671.25 92) (5.24) (2.54) (71.41) (100)	8.515.63 4.240.63 2.370.00 51.470.00 86.230.66 (21.47) (4.92) (2.75) (39.69) (100)	5.00         4,190.00         2.652.00         51,917.00         1.04,614.78           13)         (4.01)         (2.54)         (49.63)         (100)	19,246.88         4,133.13         2,314.00         52,475.25         88,838.89           (21.66)         (4.65)         (2.60)         (39.07)         (100)
		Household Education Needs	23,460,00 15,570,00 (24,73) (16,41)	38,797,50 19,297,5 (31,00) (15,42)	43,080 00 20,150,00 (29,30) (13.71)	35,112.50 18,342.5 (28.70) (14,99)	24,750,00 23,400,00 (32,71) (30,92)	26,343,75 18,515.62 (30,55) (21,47)	29,250,00 15,825,00 (27,96) (15,13)	26,781,25 19,24 (30,15) (21
		Total	49,888.20 (52.59)	59,421,79 (47,49)	76.912.95 (52.31)	62,074.31 (50.74)	21,632.50 (28,59)	34,760.66 (40.31)	\$2,697.78 (30.37)	36,363.64 (40.93)
a magain		Othern	0.00	0.00 (0.00)	0.00 (0.00)	0.00	00.0	00.0)	0.00 (0.00)	0000)
		Plantateon	2.576.20 (2.72)	(1.50)	1,639.40 (111)	2.029.73 (1.66)	0.00)	1,495.00 (1.73)	10,764.00 (10.29)	4,086 33 (4.60)
THE PARTY IS NOT	Van Parmarapanet uch	Finhery Production	1,092.00 (1.15)	11,634.10 (9.30)	21,640.80 (14.72)	11,455.63 (9.36)	3,972.00 (5.25)	9,624.50 (11.16)	10,679,40	8,091.97 (9.11)
OTHER DESIGNATION.		Ammul Husbandry	38,477.00 (40.56)	31,273,94 (24,99)	27,739/25 (18.87)	32,496.73 (26.56)	11,313.75 ()4,95)	(4,146.72 (16.41)	18,499.88 (17.68)	14.653.45 (16.49)
It's a provide stationardian and to monomerican s million		Agricultural Production	7,743.00 (8.16)	14,640.15 (11.70)	25,893,50 (17,61)	16,092.22 (13.15)	6,346.75 (8.39)	9,494,44	12,754,50 (12,19)	06.152,90
COMES IN		Groups	Group I	Group II	Group III	Average	Group I	Group II	Group III	Average
Same .		0		SMERS	BORRO			SKOWIES	I NON-BOB	ı

(righte in the parentneses represents the percentage)

## **PHOTO GALLERY**

Gimpse of respondents' engaged in other activities:



 A view of respondents areca nut and teak plantation at Dhansiripar block



(2) A view of respondents passion fruit plantation at Medziphema block



(ii) Rabbit farming undertaken by respondent at Medziphema block



(4) Jute production by respondent at Dhansiripar block



b) Indigenous indoor bee keeping by respondent at Medziphema block



(6) Indigenous on farm bee keeping by respondent at Medziphema block

penditure incurred was for animal husbandry with an amount of ₹ 32,496.73 156 per cent) for the borrowers and for the non-borrowers, the highest appenditure was incurred for household needs amounting to ₹ 26,781.25 115 per cent).

## In Respondents' annual income

The distribution of respondents' annual income from different sources given in Table 5.31. The findings revealed that the average annual income im different sources was found to be ₹ 1,38,136:10 per respondents for the unovers and ₹ 83,389.81 for the non-borrowers. Of the different sources of nume of the respondents, animal husbandry contributed a major share, on average contributing ₹ 55,371.26 (40.08 per cent) to the borrowers income and ₹28,368.85 (34.02 per cent) to the non-borrowers income. The income was and to increase with the increase in the farm size for the borrowers. Under the non-borrowers category the income was found highest under Group II and size), followed by Group I (marginal size) and then by Group III redum size). On comparison of the findings, the borrowers' income metated from agricultural, animal husbandry and fishery activities was and higher than the non-borrowers in all the cases. This implies that the some generated from agricultural and allied activities was found to have a puttive impact on the borrowers.

### **UD. EMPLOYMENT GENERATED**

The distribution of respondents' employment generated from different multural and allied activities in mandays is given in Table 5.32.1. Under a category of borrowers, the total average number of mandays generated 305.62 mandays, with male employed for 161.64 days (52.89 per cent) and

0	0	SNERS					NOR-BOR	N
Groups	Group I	Group II	Group III	Average	Group I	Group H	Group III	Average
Agricultural Production	4,855.90 (4.90)	11,467.90 (8.36)	30,045.70 (16.87)	15,456.50 (11.19)	1,142.37 (1.32)	6,654.34 (7.15)	7,184.90 (10.14)	4,993.87 (5.99)
Animal Husbandry	55,508.70 (56.01)	54,935.68 (40.05)	55,669.40 (31,25)	55,371.26 (40.08)	25,680.00 (29.77)	33,030.00 (35,50)	26,396,56 (37,26)	28,368.85 (34.02)
Fishery	2,100,00 (2,12)	24,012.50 (17.50)	44,900.00 (25.21)	23,670.83 (17.14)	7,275.00 (8.43)	17,487.50 (18.79)	12,200.00 (17.22)	12,320.83 (14.77)
Forest & Plantation	825.00	750.00 (0.55)	525.00 (0.29)	700.00 (0.51)	0.00	312.50 (0.34)	2,000.00 (2.82)	770.83 (292)
Service	18,000.00 (18.16)	28,275.00 (20.61)	30,900,00 (17.35)	25,725.00 (18.62)	12,750.00 (14.78)	10,875.00 (11.69)	8,250.00 (11.65)	10,625.00 (12.74)
Business	15,720.00 (15,86)	11,430.00 (8.33)	16,080.00 (9.03)	14,410.00 (10.43)	34,050 00 (39.47)	21,375 00 (22.97)	10,762.50 (15.19)	22,062.50 (26.46)
Others	2,100.00 (2.12)	6,307.50 (4.60)	0.00	2,802.50 (2.03)	5,375.00 (6.23)	3,318.75 (3.57)	4,050.00 (5.72)	4,247.91 (5.09)
TOTAL	(001)	1,37,178.60 (100)	1,78,120.10 (100)	1,38,136.10 (100)	86,272.38 (100)	93,053.09 (100)	70,843.97 (100)	83,389.81 (100)

+

a with the theory of the proposition of the proposi

100	Citratia	Group I		E DANO H	Total	Group	BOWERS		Lotal Total
	Ē	Iqu	Group <sup>II</sup>	Group <sup>1]</sup>		da I	Group II	Group II1	
es.	W	(38.00	65.05 (22.92)	109.80 (28.62)	(70.95 23.22)	(26.50 16.87)	(38.28 18.58)	51.90 (19.09)	38.89 (18.38)
Crop production	<b>H</b> )	37.50 (15.03)	53.25 (18.76)	99.40 (25.91)	63.38 (20.74)	24.13 (15.36)	29.03 (14.09)	36.45 (13.41)	29.87 (14.11)
1000	T	75.50 (30.27)	118.30 (41.68)	209.20 (\$4.54)	134.33 (43.95)	50.63 (32.23)	67.31 (32.67)	88.35 (32.50)	68.76 (32.49)
MIL	M	53.50 (21.45)	48.10 (16.95)	36.60 (9.54)	46.07 (15.07)	23.25 (14.80)	28 (3 (13 65)	31.10 (11.44)	27,49 (12.99)
Annual (Indexely)	đ	67,59 (27.10)	43.35 (15.27)	40.59 (10.58)	50.51 (16.53)	25.48 (16.22)	40.51 (19.66)	35.35 (13:00)	33.78 (15.96)
estin.	e	121.09 (48.55)	91.45 (32.22)	77.19 (20.12)	96.58 (31.60)	48,73	68.64 (33.31)	66.45 (24.44)	61.27 (28.95)
	W	1.00 (0.40)	13.40 (4.72)	23.10 (6.02)	12.50 (4.09)	8.13 (5.12)	19.47 (9.45)	21.35	16.31 (7.71)
Futures	ł	00.0)	4.55 (1.60)	21.10 (3.50)	8.55 (2.80)	7.70 (4.90)	9.23 (4.48)	9.18 (3.38)	8.70 (4.11).
	P.	1.00 (0.40)	17.95 (6.32)	44.20 (11.52)	21.05 (6.89)	15.83 (10.08)	28.69 (13.92)	30.53 (11.23)	25,02 (01,82)
	W	6.60 (2.65)	4.18 (1.47)	3.10 (0.81)	463 (151)	000	3,38 (1.64)	29.25 (10.76)	(5,14)
NAME TRANS	A	3.25 (1.30)	1.90 (0.67)	(050) 061	235 (0.77)	0.00	1.80 (0.87)	18.00 (6.62)	6.60 (3.12)
	L.	9.85 (3.95)	.6.08 (2.14)	500 (1.30)	6.98 (2.28)	00.0	\$17 (251)	47.25 (17.38)	17.47 (8.26)
	M	24.00 (9.62)	28.50 (10.04)	30.00 (7.82)	27.50 (9.00)	25.00 (15.92)	23.13 (11.22)	25.00 (9.20)	24.38 (11.52)
Chen	4	18:00 (7.22)	21.56 (7.60)	18.00 (4.69)	19,19 (6,28	16.88 (10.74)	13,13 (6.37)	14,25 (524)	14.75 (6.97)
	н	42.00 (16.84)	50.06 (17.64)	48.00 (12.51)	46.69 (15.28)	41.88 (26.66)	36.25 (17.59)	39.25 (14.44)	39.13 (18.49)
	M	123.10 (49.35)	(56.40)	202.60 (52.82)	161.64 (52.89)	82.88 (52.77)	(12.58) (51.53)	158.60 (58.35)	117.95 (55.73)
Total	144	126.34 (50.65)	124.60 (43.90)	180.99 (47.18)	143.98 (47.11)	74,18 (47,23)	93.69 [45.47]	113.23 (41.65)	93.70 (44.27)
	-	249.44 (100)	283.83 (100)	(001) (001)	305.62 (100)	157.05	206.07 (100)	271.83 (100)	211.65 (100)

(Figure in the parentheses represents the percentage)

M. Male, F-Female, T-Total

	Others Total	M F T M F T	11.20 11.20 2.40 5.50 5.10 10.60 (11.32) (11.32) (22.64) (51.89) (48.11) (100)	1.43         1.44         2.86         5.81         5.75         11.56           (12.32)         (12.43)         (24.76)         (50.27)         (49.73)         (100)	150 1.20 2.70 6.20 5.15 11.35 (13.22) (13.22) (13.27) (23.79) (54.63) (45.37) (100)	1.38         1.28         2.65         5.84         5.33         11.17           (12.31)         (11.45)         (23.76)         (52.26)         (47.74)         (100)	1.25 1.13 2.38 3.25 4.25 7.50 (16.67) (15.00) (31.67) (43.33) (56.67) (100)	1.16 0.88 2.03 4.13 4.30 8.42 (13.73) (10.39) (24.12) (48.98) (51.02) (100)	1.25 0.95 2.20 6.00 5.13 11.13 (11.24) (8.54) (19.78) (5.00 (5.13 (10))	1.22 0.98 2.20 4.46 4.56 9.02
	Plantation	F T	0.50 1.40 (4.72) (13.21)	0.30 0.95 (2.39) (8.22)	0.40 1.20 (3.52) (10.57)	0.40 1.18 (3.58) (10.59)	0000 0000 (0000)	0.25 0.81 (2.97) (9.65)	0.95 2.70 (8.54) (24.27) (	21.1 01.0
of the restriction of	Publicity	F T M	0.20 0.30 0.90 (1.89) (2.83) (8.49)	0.90 1.61 0.65 (7.78) (13.95) (5.62)	0.85 1.65 0.80 (7.49) (14.54) (7.05)	0.65 1.19 0.78 (5.82) (10.63) (7.01)	0.38 0.50 0.00 (5.00) (6.67) (0.00)	0.64 1.14 0.56 (7.61) (13.54) (6.68)	0.73 L43 L75 (6.52) (12.81) (15.73)	0.58 1.02 0.77
	andry	T M	(3810 0.10 (3863) (0.94)	<sup>3</sup> .30 0.71 (28.54) (6.16)	$ \begin{array}{c} 3 & 10 \\ (2731) \\ (705) \end{array} $	3.50 0.54 (31.33) (4.81)	2,25 0.13 (30.00) (1.67)	2.19 0.50 (25.97) (5.94)	2.50 0.70 (22.47) (6.29)	231 0.44
solution and the second	Animal Husbundry	MF	) (19.81) (2.00 (18.87)	) (13.84) (14.70)	) (14.10) (13.22)	) (15.81) (15.52)	) (8.33) (21.67)	) (8.16) (17.81)	) (9.44) (13,03)	0.79 , 1.53
fable 3.32.7. Distribution of evolumitant' official providence	Cropping	F T	0 1.20 2.40 (2) (11.32) (22.64)	3 1.41 2.84 (2) (12.22) (24.54)	0 1.20 2.70 (10.57) (23.79)	8 1.27 2.65 (1) (11.38) (23.69)	57) (15.00) (31.67)	2 1.03 2.25 (7) (12.24) (26.72)	s 1.05 2.30 (4) (9.44) (20.67)	4 1.07 2.31
Table # 32.5. Dist	Ciscuttan -	M	Group I (11.32)	Group 1 (12,32)	Group <sup>1</sup> II (13.22) Group <sup>1</sup> II (13.22)	Total (12,31)	Group 1 (155	Croup (14,47)		, 124

(Figure in the parentheses represents the percentage)

M- Male: F- Female; T- Total

imale for 143.98 mandays (47.11 per cent). In the non-borrowers category, werage number of mandays was 211.65 mandays, with male employed for 17.95 mandays (55.73 per cent) and female for 93.70 mandays (44.27 per cent). If the different agricultural activities, crop production was found to generate the highest employment mandays, generating 134.33 mandays (43.95 per cent), with 70.95 male mandays (23.22 per cent) and 63.38 female mandays 174 per cent) for the borrowers, whereas for the non-borrowers it generated 18.76 mandays (32.49 per cent) with 29.87 male mandays (14.11 per cent) and 18.89 female mandays.

The distribution of respondents' employment generated in numbers is inten in Table 5.32.2. The average number of persons employed for the personers was found to be 11.17 per family of which 5.84 (52.26 per cent) male and 5.33 (47.74 per cent) female were employed. The non-borrowers employed 902 persons per family with 4.56 (49.45 per cent) male and 4.56 60.55 per cent) female.

# ED. IMPACT OF CO-OPERATIVE BANK FINANCE ON EMPLOYMENT AND INCOME

Table 5.33 reveals the impact of co-operative bank finance on income end employment. A significant increasing trend on overall group was deerved. The increase in income from crop production was found to be 2027 per cent, animal husbandry with 48.12 per cent, fishery enterprise with 1679 per cent, plantation enterprise with 16.33 per cent and other agriculture end allied activity had increased to 42.55 per cent on the sample respondents ther getting the co-operative bank finance, which was found to be statistically minificant at 1 per cent level during 't' test, except on other enterprises which tas 139 per cent increase and statistically non-significant. Further it showed th such activities could be further explored for generating more income by

~100~

such a survey column bus account on account district assistance for a survey of the

MeanSDMeanSDMean $Mean$ SDMeanSD $Mean$ $14670.83$ $9784.27$ $28279.17$ $2062.34$ $26.27$ $975.33$ $9784.27$ $28279.17$ $21990.56$ $48.12$ $975.33$ $9784.27$ $28279.17$ $21990.56$ $48.12$ $975.33$ $351.35$ $1093.33$ $481.83$ $10.79$ $975.33$ $351.35$ $1313.96$ $521.76$ $16.32$ $975.33$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $232.700$ $4112.90$ $239.11$ $1.39$ $20349.38$ $11415.22$ $35422.00$ $24216.08$ $42.55$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $2438$ $8.78$ $1012$ $70349.38$ $8.78$ $13.74$ $2732$ $70349.38$ $113.11$ $87.96$ $45.25$ $70349.38$ $13.74$ $23.34$ $13.74$ $70349.38$ $13.74$ $13.74$ $13.74$			Bei	Before	After	let .	Ad. Channes	101 mars
Income (₹)         Income	7	Farameters	Mean	SD	Mean	SD	70 Commice	1 (631
Crop Production         3192,50         1218.01         4330.05         2062.34         26.27         26.27           Animal Husbandry         14670.83         9784.27         28279.17         21990.56         48.12         26.27           Animal Husbandry         14670.83         9784.27         28279.17         21990.56         48.12         26.27           Fashery         975.33         351.35         10093.33         481.83         10.799         26.27           Plantation         1099.42         342.55         1315.96         521.76         16.32         26.23           Others         1099.42         342.55         1315.96         521.76         16.32         26.27           Deters         1099.42         342.55         1315.96         521.76         16.32         26.27           Cold         20349.38         11415.22         35422.00         24216.08         42.55         27.32           Employment         212.88         8.120         28.86         39.13         11.31         87.96         42.55           Coop Production         212.88         8.120         28.86         21.34         27.32         27.32           Fenployment         21.28         8.120         2		Income (₹)						
Animal Husbandry         14670.83         9784.27         28279.17         21990.56         48.12         88.12           Fishery         975.33         351.35         1003.33         481.83         10.79         88.12           Plantation         1099.42         342.55         1313.96         521.76         16.32         16.32           Plantation         1099.42         342.55         1313.96         521.76         16.32         16.32           Others         405.54         223.700         411.29         239.11         1.39         16.32           Others         405.54         223.700         411.29         239.11         1.39         16.32           Cobers         405.54         223.700         411.29         239.11         1.39         1.39           Fishery         20349.38         11415.22         35422.00         24216.08         42.55         1.39           Employment         20349.38         11415.22         35422.00         24216.08         42.55         1.35           Employment         212.80         8.120         238.66         91.374         27.32         1.374           Crop Production         21.28         8.120         28.86         91.374	1.12	Crop Production	3192,50		4330.05	2062.34	26.27	4.577963***
Fishery         975.35         351.35         1003.33         481.83         10.79         10.79           Plantation         1099.42         342.55         1313.96         521.76         16.32         16.32           Others         405.54         223.70         411.29         521.76         16.32         16.32           Others         405.54         223.70         411.29         53.911         11.39         1           Total         20349.38         11415.22         35422.00         24216.08         42.55         1           Employment         20349.38         11415.22         35422.00         24216.08         42.55         1           Crop Production         21.28         8.120         28.86         13.74         27.32         1           Animal Husbandry         58.68         39.13         113.11         87.96         45.25         1           Fishery         21.86         9.63         24.38         13.74         27.32         1           Animal Husbandry         58.68         39.13         113.11         87.96         45.25         1           Fishery         21.86         9.63         24.38         8.78         16.12         1         1<		Animal Husbandry	14670.83	9784.27	28279.17	21990.56	48.12	6.702508 **
Plantation         1099.42         342.55         1313.96         521.76         16.32           Others         405.54         223.70         411.29         239.11         1.39           Others         405.54         223.70         411.29         239.11         1.39           Funduction         20349.58         11415.22         35422.00         24216.08         42.55           Employment         21.28         8.120         28.86         13.74         27.32           Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Animal Husbandry         28.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         2.08         15.82           Others         1.05         5.25         2.08         15.82         10.12           Animal Husbandry         8.78         8.78         8.78         10.12         10.12           Fishery         21.35         24.38 <td></td> <td>Fishery</td> <td>62533</td> <td>351.35</td> <td>1093.33</td> <td>481.83</td> <td>10.79</td> <td>3.085567 **</td>		Fishery	62533	351.35	1093.33	481.83	10.79	3.085567 **
Others         405.54         223.70         411.29         239.11         1.39           Total         20349.58         11415.22         35422.00         24216.08         42.55           Empioyment         20349.58         11415.22         35422.00         24216.08         42.55           Empioyment         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         13.74         27.32           Plantation         21.86         9.63         24.38         8.796         45.25           Others         1.62         0.63         24.38         8.796         10.12           Others         1.63         7.32         10.12         10.12         10.12           Total         110.39         55.53         170.73         101.21         35.33	1 22	Plantation	1099,42	342.55	1313,96	521.76	16.32	4.156683 **
Total         20349.38         11415.22         35422.00         24216.08         42.55           Employment         20.349.38         11415.22         35422.00         24216.08         42.55           Employment         21.28         8.120         28.86         13.74         27.32           Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Animal Husbandry         28.68         39.13         113.11         87.96         45.25           Plantation         21.86         9.63         24.38         8.796         45.25           Plantation         4.39         1.37         5.25         2.08         10.12           Others         1.62         0.89         1.56         1.28         15.82           Total         110.39         55.53         170.73         101.21         35.33		Others	405.54	223.70	411.29	239.11	1.39	-2.36075 NS
Employment         Employment         21.28         8.120         28.86         13.74         27.32           Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         8.796         45.25           Plantation         4.39         1.37         52.55         20.8         10.12           Others         1.62         0.89         1.37         5.25         15.82           Total         1.039         55.53         170.73         101.21         35.33		Total	20349.38	11415.22	35422.00	24216.08	42.55	4.94287:**
Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         8.78         10.12           Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         2.08         10.12           Others         1.62         0.89         1.54         0.95         1.582           Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33		Empioyment						
Animal Husbandry         58.68         39.13         113.11         87.96         45.25         45.25           Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         20.8         10.12           Others         1.62         0.89         1.52         2.08         15.82           Total         110.39         55.53         170.73         101.21         35.33		Crop Production	21.28	8.120	28.86	13.74	27.32	5.215270 **
Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         2.08         15.82           Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33		Animal Husbandry	58.68	39.13	113.11	87.96	45.25	5.679833 **
Plantation         4.39         1.37         5.25         2.08         15.82           Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33		Fishery	21.86	9.63	24.38	8.78	10.12	2,260137.**
Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33	1	Plantation	4.39	1.37	5.25	2.08	15.82	3.727963 **
110.39 55.53 170.73 101.21 35.33	-	Others	1.62	0.89	1.64	0.95	1.28	-2.05863 NS
		Total	110.39	55.53	170.73	101.21	35.33	4.156683 **

the farmers. It also showed a significant increase on overall group imployment. Employment from crop production was to have increased to 232 per cent, animal husbandry with 45.25 per cent, fishery enterprise with 232 per cent, plantation enterprise with 15.83 per cent and other agriculture and allied activity has increased to 35.34 per cent on the sample respondents after getting the co-operative bank finance, which was found to be statistical unificant at 1 per cent level during 't' test, except on other enterprise it was a per cent increased with statistically non-significant, further it shows that more potentiality can be explored for generating more emptoyment by the largest in the coming days.

#### **12.RESOURCE USE EFFICIENCY**

Cobb-Douglas Production Functions was used in the present study for the assessment of the resource use efficiency of different enterprises viz., crop moduction, livestock and plantation crops on different farm size groups in the niced area. The production function of different enterprises were fitted as thesing gross return (y),  $x_1$ ,  $x_2$ ,  $x_3$ ,  $x_4$ ,  $x_5$ ,  $x_6$ ,  $x_7$  and  $x_8$  in terms of rupees ( $\stackrel{\textbf{*}}{\phantom{t}}$ ) independent variables on marginal, small and medium farm size groups as well as overall farm size group.

#### 12.1. Resource Productivity

The Ordinary Least Square (O.L.S.) estimates of parameters of Bibb-Douglas type of production with respect to different farm size groups and overall farm size samples are presented in Table 5.34.1 and 5.34.2.

It is clear from the tables that the value of co-efficient of multiple Interminations (R<sup>2</sup>) for beneficiaries ranges from 99.56 per cent (in marginal uzegroup of fam ) to 87.08 per cent (in small size group of fam), and with an overall of 94.76 per cent, which explains the variation in the dependent ratiables by the selected independent variables chosen in the equation in different farm size groups and in overall farms. By aggregating the toss-sectional data of all the farms in various farm size groups under beneficiaries, the value of R<sup>2</sup> in all farm samples was found to be 0.9956, which shows that 99 per cent of the variation of dependent variable is inplained by the independent variation chosen in the equation. Even on the ton-beneficiaries farm size group it was found out to be in the range of 799 per cent to 94.55 per cent with an overall of 99.96 per cent, which shows a good fit of the selected model. The remaining variation of dependent tariable might be due to other variables, which have been used in excess or toproperly used.

The overall regression co-efficient of input a (constant) was found to have positive significant at 1 per cent and 10 per cent level for the teneficiaries and non-beneficiaries respectively, which indicates that the model is a good fit. The negative and non-significant values, indicate that outstant have very little role towards the gross return.

The regression co-efficient of x<sub>1</sub> (human labour cost) for beneficiaries mas found maximum (0.24) on the overall and Minimum on the small size thup (0.19) and was found significant at 10 per cent level of significance, while on marginal and medium size group it was found non-significant. The unt-beneficiaries human labour had significance on the marginal (0.94) and mal (0.96) size group at 10 and 5 per cent level of significance respectively. The non-significant character may mean that it contributes less or that their mile is very less to the return. Even the investment of selected input was found a have negative impact, so it is better to re-allocate the input variables for inder investment and have meaningful contribution with regard to the input investment.

~102~

In case of x<sub>2</sub> (seed/sapling/animal/fingerling cost) it was found to be motive and significant at 10 per cent level of significance in the entire size roup under beneficiaries. x<sub>2</sub> was also found significant under in-beneficiaries in all the group size. It indicates a good fit with more put ntial in comparison to other inputs toward the gross returns.

The regression co-efficient of x<sub>1</sub> (fertilizer) was found to be statistically inficant at 1 per cent level only in medium farm size group (25.75) on the mediciaries, while on the non-beneficiaries, it was found significant on the dium and the overall. The result shows that in comparison to the other size groups, it could be betier utilized on the farm, because of its positive in gaining more net return. While on other farms, its contribution was or may be utilized in excess, which ultimately provides a negative sponse towards the gross return. So it may be concluded that the investment is the medium farm size group may further have more potential after the medium farm size group may further have more potential after the medium or by shifting the other inputs for getting better returns.

The value of x<sub>4</sub> (plant protection) was found to be significant only in the size group under beneficiaries and significant at 10 per cent level of quificance, whereas, it was not found significant in any of the group under some beneficiaries. So it will be better to shift the inputs as an investment to idential areas for getting better prospects as well as returns as compared to therinputs as it contributes little towards the gross return.

The value of xs (machineries) was found to be significant only in the metal group under beneficiaries significant at 1 per cent level, while on the so-beneficiaries, it was found to be significant on the small size group and in the overall group significant at 10 per cent level of significance.

The value of  $x_6$  (transportation) for the beneficiaries was found to be initiatically significant at 10 per cent level in small size and medium farm pup and the overall groups at 1 per cent level of significant, which shows a

~103~

<ul> <li>+-Statientes</li> <li>-3.2E-07<sup>NS</sup></li> <li>-3.2E-07<sup>NS</sup></li> <li>0.660283<sup>NS</sup></li> <li>0.660283<sup>NS</sup></li> <li>1.398279<sup>6</sup></li> <li>1.398279<sup>6</sup></li> <li>1.972674<sup>NS</sup></li> <li>1.435103<sup>NS</sup></li> <li>1.862762<sup>NS</sup></li> </ul>
---

**						0.870789*** (1527.016)				
1-Statistics		1.886113***	2.245466	1.238913*	-0.97768 <sup>NS</sup>	0.204938	-0.1661 <sup>NS</sup>	-0.60436 <sup>NS</sup>	0.378437	-0.0841 <sup>NS</sup>
Regression Co-afficiency		2723.806*** (3.912539)	( <i>161</i> 880.0)	4.847295" (3.912539)	-4.87357 <sup>NS</sup> (4.984829)	53.15255° (259.3595)	-11.1585 <sup>NS</sup> (67.17767)	-1.0825 <sup>NS</sup> (1.791139)	6.654108* (17.58313)	-0.20627 <sup>NS</sup> (2.452675)
Variables		g	x <sub>1</sub>	x <sub>2</sub>	x <sub>3</sub>	X <sub>4</sub>	x <sub>s</sub>	×6	×	x <sub>s</sub>
No.'s of observation	Small farm size group					40				
181	(ii).	l.	2.	3.	4.	5,	6.	7.	8.	.6

R <sup>2</sup>						0.99505*** (849.6419)					
(-Southing		-1.08 H <sup>NS</sup>	0.467673 <sup>NS</sup>	1.145543*	1.693909***	-1.12034 <sup>NS</sup>	-1.36155 <sup>NS</sup> -	6.665657***	1.221153***	1.519061*	
Regression Co-efficiency		-5750.69 <sup>NS</sup> (5319.275)	0.095459 <sup>NS</sup> (0.204114)	7.061947° (6.164715)	25.75573 *** (15.20491)	-103.514 <sup>NS</sup> (92.39518)	-10.6342 <sup>NS</sup> (7.810345)	16.18642 (2.428331)	45.66887*** (37.39815)	4.768853 (3.139343)	and the second s
Variables		es	x1	x <sub>2</sub>	x <sub>3</sub>	X4	x <sub>s</sub>	x <sub>6</sub>	×	×8	
No's of observation	Medium farm size group					10					
NS	(iii).	Ι.	2.	3.	4,	5.	6.	7.	80	9,	

R	A Contraction of the local division of the l					0.947637*** (1787.897)				
P-Straticalco		3.246245***	0 755565*	0.700759*	-0.40085 <sup>NS</sup>	-0.75521 <sup>NS</sup>	2.10777***	<i>"</i> 216965-1	0.685819**	-0.26826 <sup>NS</sup>
Represention Co-efficiency		716.0078***********************************	0.245545 (0.07564)	1.398507° (1.9957(43)	-1.89379 <sup>NS</sup> (4.724446)	-29,5739 <sup>NS</sup> (39,16007)	9.466241*** (4.491117)	2.708045* (1.695795)	10.34837** (15.08908)	-0.38046 <sup>NS</sup> (1.41825)
Variables		æ	×	$\mathbf{x}_2$	*,	,X4	×,	X <sub>6</sub>	×	×8
No'n of abservation	Overall farm size group					60				
82	(iv)	Ĺ	5	3.	4.	5.	6.	7.	8	9.

significant at per cent, againtant a per cent tan againtant at to per cent teres)

ik a						0.999967*** (16.71651)				
t- Statistics		2.995069***	40.11149*	9,438457**	-0.88892 <sup>NS</sup>	-2.6522 <sup>NS</sup>	-2.26248 <sup>NS</sup>	3.617278***	2.040176***	-0.0121 <sup>NS</sup>
Regression Covefficiency		722.6128*** (241.2675)	0.942542* (0.023498)	1.156315** (0.122511)	-0.6849 <sup>NS</sup> (0.770485)	-7.75261 <sup>NS</sup> (2.923082)	-9,39066 <sup>NS</sup> (4.15061)	12.74165*** (3.522442)	5,209856*** (2,55363)	-5E+15 <sup>55</sup> (-0.0000231)
Variables	d	g	x <sub>1</sub>	×2	x <sub>3</sub>	X4	X <sub>5</sub>	X <sub>6</sub>	×	×8
No's of observation	Marginal farm size group					8				
NS	()	l.	2.	3.	4.	5.	6.	7.	8,	9.

						0.998825*** (66.51042)				
a thinkes		2.65377	59.76906**	5.55649*	-0.82413 <sup>NS</sup>	1.734635 <sup>NS</sup>	4.675523	2.379517 <sup>NS</sup>	5.008234°	-0.70458 <sup>NS</sup>
Hardenmanness a second the party		261.4756 (98.52987)	0.96716** (0.016182)	1.102792* (0.198469)	-0,57408 <sup>NS</sup> (0,696591)	0.653858 <sup>NS</sup> (0.376943)	1,1719* (0,250646)	0.51656 <sup>NS</sup> (0.217086)	2.994106* (0.597837)	-0.34281 <sup>NS</sup> (0.486553)
- Antimica		ta	x <sub>1</sub>	X <sub>2</sub>	×3	X <sub>4</sub>	X <sub>5</sub>	x <sub>6</sub>	x,	×s
Notes of Minured matching	Small farm size group	77.5				32				
10.00	(ii).	Π.	2.	3.	4.	5.	6.	7.	QÓ	9.

Medium farm size group					20				
	×	×₁	x <sub>2</sub>	x <sub>3</sub>	X4	×5	×6	× <sub>7</sub>	X8 8
	-2863.69 <sup>NS</sup> (1538.522)	0.203841 <sup>NS</sup> (0.06347)	3.841157** (1.680644)	4.266043° (4.18209)	-41.692 <sup>NS</sup> (33.66562)	-3.62684 <sup>NS</sup> (3.485446)	8.827077*** (1.386537)	11.44018* (13.64558)	4.676801 <sup>NS</sup> (1.143489)
	-1.86133 <sup>NS</sup>	3.211612*	2.285527	1.020074	-1.23842 <sup>NS</sup>	-1.04057 <sup>NS</sup>	6.366275***	0.83838	4.089941 <sup>NS</sup>
					0.945508*** (713.0072)				

Overall farm size group		16 16413*		
	a)	(42,62756)	0.379194	
	$\mathbf{x}_{i}$	0.993629 <sup>NS</sup> (0.0084)	118.2938 <sup>NS</sup>	
	*	1 066331* (0.086997)	12.2571°	
L	×,	1.036308 (0.166168)	6.236491	
60	×	0.952754 <sup>NS</sup> (0.267153)	3.566325	0.999662*** (69.96485)
	×3	1.27755* (0.247783)	5.155922*	
	×.	0.21086 <sup>NS</sup>	1.014721 <sup>NS</sup>	
	×,	1.382999° (0,415286)	3.330234	
	×	0.982642 <sup>NS</sup> (0.365714)	2.686917 <sup>NS</sup>	

The significant contribution of the input to the gross returns. Under meneficiaries marginal and medium size group was found significant at 10 runt level of significance.

The value of x7 (marketing cost) was found significant in all the groups also on the overall groups under beneficiaries and non-beneficiaries, and shows a positive significant contribution of the inputs to the gross real. So it will be better to continue the investment on these inputs for rung better prospects as well as benefiting the farmers after reshuffling the real cost.

The value of x<sub>8</sub> (miscellaneous) was found to be significant only in the diam size group and was found statistically significant at 10 per cent level day beneficiaries, while under non-beneficiaries it was non-significant.

# U22. Resource use efficiency

To evaluate how efficiently the farmers of the study area have been doing their resources, the Marginal Value Product (MVP) of an input was impared with its respective factor cost. An optimal use of that factor was used as the ratio approach unity. The value of ratio greater than unity must that returns could be increased by using more of that resource and if out of ratio is less than unity, it indicates improper use of the resources. The inginal value products of a particular resource indicates the expected while of that resource to the gross return caused by an addition of one unit inter resource, while other inputs are held constant. The marginal value reducts of these factors were computed by multiplying the regression reficient of that resource with the geometric mean of gross return to the interimetric mean of each resource. The computed MVP of different strategic unibles is shown in Table 5.35.1 and 5.32.2.

~104~

The value of MVP for x<sub>1</sub> (human labour cost) was found to be positive the entire farm size groups. Under beneficiaries, an addition of one unit of it x input would be adding a value ranging from 4.21 to a maximum of 09, whereas in the non-beneficiaries it would be adding a value in the range 04.55 to 217.61.

The value of MVP for x<sub>2</sub> (seed/sapling/animal/fingerling cost) was und to be positive for all the farm size groups. The value ranges from 17 to 932.56 for the beneficiaries and from 31.79 to 108.51 for mbeneficiaries.

The MVP of x<sub>3</sub> (fertilizer) was found to be positive for medium farm (120.51) and negative for the marginal (-18.83) and the small (-21.52) farm of the beneficiaries. The negative MVP means that addition of one unit of input x<sub>3</sub> would reduce the return ranging from 18.83 to 21.52. Also the WP of x<sub>3</sub> for the non-beneficiaries was found to be positive on medium farm (727.59) and negative on the marginal (-420.76) and small (-182.76) farm is of the beneficiaries.

The MVP of x4 (plant protection) in marginal size and small size was and to be positive and negative for the medium size group and the overall outp of the beneficiaries. Whereas for the non-beneficiaries, the marginal, and medium farm size had a negative value indicating that the addition is unit will reduce the return and only the overall will have a positive value.

The MVP of  $x_5$  (machineri es) of beneficiaries under marginal and intervalue form size groups was found out to have negative values, indicating int addition of one unit of these inputs would decrease the gross return, the the small and the overall group was found to have positive values. The im size groups all had a negative value under non-beneficiaries and only the metal had a positive value. The additional investment of one unit to these

~ 105~

us would be decrease the gross returns and would not contribute their in to the gross return of the farm.

The MVP of  $x_6$  (transportation) in small, medium and overall farm size up under beneficiaries was found to be positive, indicating that addition of unit of this input will increase gross return by 16.83 to 244.00. While the non-beneficiaries, it was found to be positive for all the groups and also the overall groups with value ranging from 1.24 to 70.07.

The MVP of  $x_7$  (marketing cost) was found to be positive on the entire resize groups. Under beneficiaries, an addition of one unit of the  $x_7$  input read be adding a value ranging from 1846.51 to a maximum of 9547.08, reas, in the non-beneficiaries it would be adding a value return in the rest of 3.35 to 1031.55.

The MVP of x8 (miscellaneous) for beneficiaries under marginal, small overall farm size groups was found to be negative, indicating that it ion of one unit of these inputs will decree their gross return, and only medium farm size had a positive value. The marginal and small farm size in non-beneficiaries had a negative value, whereas the medium and the rall groups had a positive value.

The cross-sectional data of overall farm size was aggregated and the im of MVP to its factor cost was computed. It was observed that ratio of to x<sub>8</sub> was found to have positive as well as negative values. Positive value dicates increase return, the greater than unity the higher the gross return duch highlight that the farmers can earned more by investment on those puts for getting better returns, while the negative values indicates either there use of inputs or adverse response towards the gross return, which ends to be curtailed immediately. Further investment of such inputs must be under towards other higher results inputs which will provide a positive attribution to the gross return.

~106~

SN	Variables	Geometric Mean	MVP	MFC	Efficiency
(i).	Marginal farm				
	<sup>1</sup> x	7712,69	4.21	86	0.04305
2	K	239.363	932.56	23	40.5465
3	x <sub>3</sub>	49,4956	-420.76	22	-19.126
4	X <sub>4</sub>	118.756	7.00E+17	17	4.10E+16
5	K <sub>5</sub>	406.416	-11576	200	-57,881
9	X <sub>6</sub>	260.841	244.01	4	61.0008
7	x	282 096	49745.2	175	284.258
80	×6	760.037	-7.00E+15	1	-7.00E+15
6	y	6635.75	-450560	24	-18773

	A VALUE AND A VALUE AND A	MARKA COMPANY	2020	1000	
and the second second	Small farm				81
	x1	10404.1	44.86	86	
	x <sub>2</sub>	1146,43	181.77	23	
	x <sub>3</sub>	48.933	-182.76	22	
	X4	305.331	1594.58	17	
	x <sub>5</sub>	1188.44	-4184.5	200	-20.922
9	X <sub>6</sub>	929.477	-8.12	4	-2.0297
	×7 .	725.483	1846.51	175	10.5515
	X <sub>8</sub>	795,914	-0.39	1	-0.3868
	y	16865.6	102143	24	4255.95

a La	Variantee	Christmanne Schwart	11.014	MIC	( inflation of the
(111).	Medium farm				
-	x	14158.1	16.18	86	0.1651
5	x2	1956.09	199.5	23	8.67391
3	x <sub>3</sub>	\$7.1146	727.59	22	33.0727
4	X4	516,804	-2339.4	17	-137.61
5	X5	1953.82	-3004.2	200	-15.021
9	X <sub>6</sub>	1713.19	91.45	4	22 8633
7	<b>x</b> <sub>7</sub>	1248.93	9547.08	175	54.5547
~	X <sub>8</sub>	1289	6.73	1	6.736
6	y	28374.6	-162457	24	-6769

Better Narrahlese	(iv). Overall farm	1 x <sub>1</sub>	2 x <sub>2</sub>	3 x <sub>3</sub>	4 X <sub>4</sub>	5 x <sub>5</sub>	6 x <sub>6</sub>	7 x <sub>7</sub>	8 X <sub>8</sub>	
Construction (14) and		10419.3	965.251	50.306	284.781	1079 68	832 766	678.538	855.905	2. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVVP		45.79	43.47	-58.86	-735.4	2942.42	16.83	2380.3	-0.59	
Select		86	10	22	17	200	4	175	1	
Contraction of		0.46729	4.34703	-2.6757	-43.259	14.7121	4.20875	13,6017	-0.5913	

25	Variables	Geometric Mean	NIVE	MFC	A.Maiency
(1).	Marginal farm				
-	×1	2757.18	155.52	86	1.58693
13	x <sub>2</sub>	330.073	31.79	23	1.38255
3	x <sub>3</sub>	36.312	-18.84	22	-0,8561
4	X4	98.3419	-170,56	17	-10.033
ŝ	X5	369.376	-2582.4	200	-12.912
9	X <sub>6</sub>	283 641	70.08	4	17.5198
7	×	284.39	1031.55	175	5.89458
00	X8	369.376	-7,00E+15	1	-7.00E+15
6	y	4652.31	19871.9	24	827,994

-Constanting	and the second	2 22052	1.79803	-0.9786	1.15387	2 19731	0 96855	0.05133	-0.6428	408,556
2.05	and the second	86	23	22	17	200	4	175	1	24
antes.		217.61	41.35	-21.52	19.61	439.46	3.87	8.98	-0.64	9805.34
and a straight		4976.64	583.298	36.2255	95.5636	762.246	550.167	564.656	773,486	8418.94
anitation of	Small farm	x, ix	x <sub>2</sub>	x <sub>3</sub>	X4	x <sub>5</sub>	X <sub>6</sub>	×ج	. X <sub>8</sub>	y
-	(II).	1	2	3	4	5	9	7	00	6

7772.0534.55980.35256919.278108.51234.71794919.278108.51234.7179478.0913120.52225.4779978.0913120.52225.4779988.9051-942.2417-55.42688.9051-942.2417-55.42688.9051-942.2417-55.426963.289-1024.6200-5.1229963.28949.8741712.4682963.28949.8741750.147741284.395.5851750.147741284.396.61.155.74433134522-808992424-3370.8	STRUMENT	07-15% 01.00000-04%	SAVPO	1900	Althumas
34.55     98       34.55     98       108.51     23       108.51     23       120.52     23       120.52     22       -942.24     17       -942.24     17       -1024.6     200       -1024.6     200       -1024.6     17       25.85     175       -55.85     175       6.6     1.15       6.6     1.15       -80899     24	Medium fàrm				
108.51     23       120.52     23       120.52     22       -942.24     17       -942.24     17       -1024.6     200       -1024.6     200       -1024.6     17       200     200       -1024.6     17       -1024.6     175       -1024.6     175       -1024.6     115       -25.85     175       -80899     24	x, 1x	 7772.05	34.55	86	0.35256
120.52     22       -942.24     17       -942.24     17       -1024.6     200       -1024.6     200       -1024.6     7       -1024.6     17       -200     175       -25.85     175       -6.6     1.15       -80899     24	x <sub>2</sub>	 919.278	108.51	23	4.71794
-942:24     17       -1024.6     200       -1024.6     200       49.87     4       25.85     175       6.6     1.15       -80899     24	x <sub>3</sub>	 78.0913	120.52	22	5,47799
-1024.6     200       49.87     4       25.85     175       55.85     175       6.6     1.15       -80899     24	X <sub>4</sub>	 88.9051	-942.24	17	-55.426
49.87     4       49.87     4       25.85     175       6.6     1.15       -80899     24	x <sub>5</sub>	1284.39	-1024.6	200	-5.1229
25.85     175       6.6     1.15       -80899     24	x <sub>6</sub>	963.289	49.87	4	12,4682
6.6 1.15 -80899 24	x,	 967.87	25.85	175	0.14774
-80899 24	X <sub>g</sub>	1284.39	6.6	1.15	5.74433
	y	13452.2	66808-	24	-3370.8

Account     Account     Account     Account     Account       5336.71     185.31     100       5336.71     185.31     100       629.176     33.14     23       46.8111     32.21     23       93.6476     23.69     17       823.528     397.11     200       823.528     397.11     200       607.041     1.25     4       607.041     1.25     4       616.707     3.35     175       829.983     1.47     1.1       829.983     1.47     1.1	2	(iv), (	-	2	3	4	s	6	7	~	6
185.31     100       185.31     100       33.14     23       33.14     23       32.21     23       32.21     22       32.21     22       32.21     22       32.21     22       32.21     22       32.21     23       37.11     200       397.11     200       397.11     200       335     4       1.25     4       1.25     4       1.25     4       1.25     175       1.47     1.1       1.47     1.1	Value inte	Overall farm		x <sub>2</sub>	X <sub>3</sub>	X4	X <sub>5</sub>	X <sub>6</sub>	×	× <sub>6</sub>	y
100 100 23 23 23 23 23 23 23 23 23 23	Chargerennier afternare	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5336.71	929-176	46.8111	93.6476	823.528	607.041	616 707	829,983	9094.06
	terre:		185.31	33.14	32.21	23.69	397.11	1.25	3.35	1.47	497.41
1.85312 1.85312 1.44109 1.46418 1.39364 1.39364 1.39364 0.31133 0.31133 0.31133 1.33282 1.33282	-States 1		100	23	22	17	200	4	175	1.1	24
	A DESERVICE AND A		1.85312	1.44109	1 46418	1.39364	1 98553	0.31133	0.01916	1.33282	20.7255

The second second

The above result showed that none of the resources were used with numum efficiency since MVP to factor cost ratio was not equal to unity. It other need shift of input variables for getting better prospects from the same instment of inputs.

### **133 STATUS OF BANK LOAN RECEIVED BY THE BORROWERS**

#### 1. Loan received

The distribution of loan received by the borrowers is given in Table Under Group I (Marginal farm size) there are ten (10) loanees who took for animal husbandry. Under Group II (Small size) there are 3 borrowers agriculture, 15 for fishery and 22 for animal husbandry. Under Group III Midium Size) there are 4 agricultural loanees, 5 fishery loanees and 1 animal moundry loanee. Categorizing the loanees under different enterprise, the toimum amount disbursed per loanee was found highest under animal moundry with an average amount of  $\gtrless$  63,969.70, followed by agriculture  $\oiint$  57,685.71 and then by Fishery with  $\gtrless$  48,890.

#### 132. Repayment performance of the borrowers

The distribution of the borrowers' loan repayment is given in the 5.37. The findings revealed that the borrowers as a whole borrowed an nount of ₹ 34,92,600, with an additional interest amount of ₹ 4,19,112. The that amount due for repayment was found to be ₹ 39,11,712, out of which 14,71,000 (37.61 per cent) was paid and with a balance of ₹ 24,40,712.00 0.39 per cent). Across the different Groups, Group I have a balance of 14 per cent, Group II with 63.64 per cent and Group III with 64.38 per cent. 14 der the mode of repayment, partial repayment was found to be dominant

~107~

3
(28.00) 48,890
(11.56) 571
57,685.71
3 -
-111 CAL

1 hourse	-					
ent	Not Paid	1 (1.67)	7 (11 67)	1 (1.67)	9 (15.00)	
Mode of payment	Partial	(00°51) 6	31 (51.67)	9 (15.00)	49 (81.67)	
Mon	Paid	00.0)	2 (3.33)	0000)	(3.33)	
Balance	(in ₹)	3,88,512 (55.94)	16,43,720 (63.64)	4,08,480 (64.38)	24,40,712 (62.39)	
Amount paid	(in ?)	3,06,000 (44,06)	9,39,000 (36,36)	2,26,000 (35.62)	14,71,000 (37.61)	(Figure in the parentheses represents the percentage)
Interest	Amount (in ₹)	74,412 (10.71)	2,76,720 (10.71)	67,980 (10.71)	4,19,112 (10.71)	neses represent
Aniount	Borrowed (in ?)	6,20,100 (89.29)	23,06,000 (89.29)	5,66,500 (89.29)	34,92,600 (89.29)	e in the parentl
Interest	rate	12	77	2	12	(Figur
Amount to be	retpa⊮d (in ₹)	6,94,512.00 (100.00)	25,82,720 (100.00)	6,34,480 (100.00)	39,11,712 (100.00)	
Sample	Size	10 (16.67)	40 (66.67)	10 (16.67)	(001) 09	
	Croups	Group I	Group II	Group III	Total	
1	-					-

with 81.67 per cent. The balance due for repayment was found to increase with the increase in the farm size, which indicates that, the marginal farmers in found better in repayment of loan than the small and medium size unmers.

#### 113. Borrowers utilization of bank loan

The nature of utilization of bank loan for which it has been sanctioned it is given in Table 5.38.1 and 5.38.2. The overall utilization of the bank loan it which it was sanctioned was found out to be 41.70 per cent; the remaining its used for other productive uses on the farm (14.52 per cent) as well as im-productive uses for home consumption (43.78 per cent). Apart from the small usage, the maximum funds were diverted towards household insumption needs which accounts for 33.13 per cent of the total loan. Under the different categories of borrowers, Group 1 utilized 46.28 per cent for the cinal loan purpose, 2.82 for other productive purpose and 50.90 per cent for in-productive uses. Group II utilized 40.78 per cent for the loan purpose, it52 per cent for other productive uses and 43.70 per cent for non-productive uses. Group III utilized 40.42 per cent for the actual loan purpose, 23.25 per un for other productive uses and 36.33 per cent for non-productive uses. The impose utilization of bank loan was found better in Group I (46.28 per cent), unwed by Group II (40.72 per cent) and then by Group III (40.42 per cent).

1	Toon Dumont	Amount	Actually		otho	Other Productive Uses	Lines .			Non-Productive Lings	((S)G L1mbs)	
	Coan rupose	Loaned	Utilized	Agnoutural	Fishery	Animuls	Plantation	Total	Household Needs	Education	Others	Total
	Agriculture	(0.00)	0 (00:0)	0.00)	0(00.0)	0 00)	0(00)	0 (00.0)	0 (00)	0.00)	0.00)	0 (00)
	Fishery	0(000)	0(00)	0 (00.0)	0 (00.0)	0000)	00(0)	0000)	0 (00.0)	0(00/0)	0(000)	0.00)
dnoug	Animal Husbandry	6,20,100 (100)	2,87,000 (46.28)	4,500 (0.73)	6,000	5,000 (0.81)	2,000 (0.32)	17,500 (2.82)	2,53,600 (40.90)	38,000 (6.13)	24,000 (3.87)	3,15,600 (50.90)
	Total	6.20,100 (100)	2,87,000 (46,28)	4,500 (0.73)	6,000 (0.97)	5,000 (0.81)	2,000 (0.32)	17,500 (2.82)	2.53,600 (40.90)	38,000 (6.13)	24,000 (3.87)	3.15.600 (50.90)
	Agriculture	1,86,300 (100)	20,500 (11 00)	0 (0.00)	1,500 (0.81)	1,15,000 (61.73)	0 00)	1,16,500 (62.53)	36,000 (19.32)	10,000 (5.37)	3,300 (1.77)	49,300 (26,46)
	Fishery	7,01,400 (100)	2,86,000 (40,78)	29,500 (4.21)	0(00:0)	34,500 (4.92)	1,500 (0.21)	(9.34)	2,31,400 (32,99)	77,000 (10.98)	41,500 (5.92)	3,49,900 (49.89)
Group	Am <sup>mal</sup> Husbandry	14,18,300	6.34,000 (44.70)	39,000 (2.75)	37,800 (2.67)	90,000 (6.35)	9,000 (0.63)	L.75,800 (12,40)	4,84,000 (34,13)	87,000 (6.13)	37,500 (2.64)	6,08,500 (42.90)
-	Total	23,06,000 (100)	9,40,500 (40.78)	68,500 (2.97)	39,300 (1.70)	2,39,500 (10.39)	10,500 (0.46)	3,57,800 (15,52)	7,51,400 (32,58)	1,74.000 (7.55)	82,300 (3.57)	10,07,700 (43.70)
-	Agriculture	2,17,500 (100)	65,000 (29,89)	0(0.0)	27,000 (12.41)	35,000 (16.09)	0(000)	62,000 (28.51)	69,000 (31,72)	14,000 (6.44)	7,500 (3.45)	90,500 (41.61)
Шd	Fishery	2,76,400 (100)	(47,03)	18,200 (6.58)	0(000)	29,500 (10.67)	2,000 (0.72)	49.700 (17.98)	73,000 (26.41)	17,200 (6.22)	6,500 (2.35)	96,700 (34,99)
-	Animal Husbandry	72,600 (100)	34,000 (46.83)	5,000 (6.89)	0(000)	15,000 (20.66)	0(000)	20,000 (27.55)	10,000 - (13.77)	5,000 (6.89)	3,600 (4.96)	18,600 (25,62)
	Total	5,66,500 (100)	2,29,000 (40,42)	23,200 (4.10)	27,000 (4.77)	79,500 (14.03)	2,000 (0.35)	1,31,700 (23.25)	1,52,000 (26.83)	36,200 (6.39)	17,600 (3.11)	2,05,800

ALC: NO

AND A DESCRIPTION OF DESCRIPTION OF A DE

					Other Prod	Other Productive Uses (on farm)	(on farm)		Non	Non-Productive Uses (home use)	lacs (homo i	ISC)
2	Loun Purpose	Loaned	Utilized	Agricultural	Fishery	Animals	Plantation	Total	Household Needs	Education	Others	Total
	Agriculture	4,03,800 (100)	85,500 (21.17)	0(00)	28,500 (7.06)	1,50,000	0000)	1,78,500 (44,21)	1,05,000 (26.00)	24,000 (5.94)	10,800 (2.67)	1,39,800 (34,62)
121	Fishery	(001)	4,16,000 (42.54)	47,700 (4,88)	0(00.0)	64,000 (6.53)	3,500	1,15,200 (11,78)	3,04,400 (31.13)	94,200 (9.63)	48,000 (4.91)	4,46,600 (45.67)
юL	Animal Husbandry	21,11,000 (100)	9,55,000 (45,24)	48,500 (2.30)	43,800 (2.07)	1,10,000 (5.21)	11,000 (0.52)	2,13,300 (10.10)	7,47,600 (35,41)	1,30,000 (6.16)	65,100 (3.08)	9,42,700 (44.66)
	Total	34,92,600 (100)	14,56,500 (41.70)	96,200 (2.75)	72,300 (2.07)	3,24,000 (9.28)	14,500 (0.42)	5,07,000 (14,52)	11,57,000 (33.13)	2,48,200 (7.11)	1,23,900 (3.55)	15,29,100 (43.78)

(Figure in the parentheses represents the percentage)

#### **III. PROBLEMS FACED BY THE BORROWERS**

#### 14.1. Problems faced in utilization of bank loans

The problem faced by the respondents in utilizing bank loan is given in Table 5.39. The highest incidence of problem faced in utilization of the loan is found to be the time of disbursement of bank loans, with 60 (100 per cent) repondents facing such problems, followed by problems faced in foursement of loan (instalment release) faced by 33 respondents for percent), other needs (46.67 per cent) and the amount (21.67 per cent).

### 114.2 Problems faced in acquiring bank loans

The problems faced by the borrowers in acquiring loans are given in lible 5.40. The highest problem faced was getting a Guarantor/ Securities/ cetificates was faced by 60 respondents (100 per cent), followed by guidance povided by the bank, faced by 71.67 per cent, bank process faced by 66.67 per ent, form issued by the bank faced by 60 per cent, knowledge about type of an faced by 51.67 per cent, filling up of forms faced by 48.33 per cent and inwledge about banks faced by 38.33 per cent.

# 111.3. Other problems faced by the respondents

The other related problem faced by the respondents is given in table 5.41. The highest incidence faced by the respondents was with the upervision and also other ag,ricultural and allied problems faced by 100 per ent each, followed by interest rates faced by 81.67 per cent, funds & capital used by 80 per cent, knowledge & skill problem faced by 76.67 per cent and ther problems viz., transportation, bank knowledge, repayment period, uset-pest & diseases and marketing.

~109~

Concession of

The same with some same as

Size         Faced         Not Faced         Faced         Not Faced         Faced         N           10         1         9         6         4         10         1         10           40         8         32         23         17         40         10         10           10         4         6         4         6         10         40         10           10         4         6         4         6         10         40         10           10         4         6         4         6         10         10         10		Sample	ΨV	Amount	Disbursen	Disbursement of loan	Lime of d	Time of disbursement	Other	Other Needs
10     1     9     6     4       40     8     32     23     17       40     8     32     23     17       10     4     5     17     40       10     4     6     10       11     6     1     10	Croups	Size	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced
40 8 32 23 17 40 10 4 6 10 10 4 6 10 10 10 10	Group 1	10	3		ø	4	10	0	e	7
4 0 10 4 0 0 4 0 4 0 4 0 4 0 4 0 4 0	Group II	40	00		33	11	40	0	17	23
07 04 05 04 EI	Group III	0	च	9	77	9	01	0	80	6
(21.67) (78.33) (55.00) (45.00) (100)	Total	60 (100)	13 (21.67)	47 (78.33)	33 (55.00)	27 (45.00)	(001)	0(00/0)	28 (46,67)	32 (53.33)

rotation         Faced         Not Faced         Faced         Not Faced         Faced         Not Faced         Faced         Not Faced         Not Faced         Not Faced         Faced         Not Faced	Group-f	On	Group-1	Gro	Group-II	Grot	Group-111	T	Total
	Problems	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced
6 $4$ $29$ $11$ $8$ $2$ $11$ $8$ $2$ $11$ $667$ $(48.33)$ $(18.33)$ $(13.33)$ $(3.33)$ $(71.67)$ $7$ $7$ $3$ $27$ $(48.33)$ $(18.33)$ $(13.33)$ $(3.33)$ $(71.67)$ $7$ $(7)$ $(500)$ $(45.00)$ $(45.00)$ $(21.67)$ $(10.00)$ $(667)$ $(490)$ $1$ $(11.67)$ $(500)$ $(45.00)$ $(21.67)$ $(10.00)$ $(600)$ $(600)$ $1$ $(11.67)$ $(500)$ $(500)$ $(500)$ $(3000)$ $(10.00)$ $(600)$ $(600)$ $8$ $3$ $3$ $3333$ $(11.67)$ $(33333)$ $(11.67)$ $(3333)$ $(3333)$ $(3333)$ $(350)$ $(6000)$ $8$ $3$ $5$ $5$ $5$ $3$ $3$ $3$ $8$ $5$ $5$ $3333$ $(11.67)$ $(3333)$ $(3333)$ $(31.67)$ </td <td>Guarantor/ Securities/ Certificates</td> <td>10 (16.67)</td> <td>0 (0.00)</td> <td>40 (66.67)</td> <td>00(0)</td> <td>10 (16.67)</td> <td>0.00)</td> <td>60 (100)</td> <td>0000</td>	Guarantor/ Securities/ Certificates	10 (16.67)	0 (0.00)	40 (66.67)	00(0)	10 (16.67)	0.00)	60 (100)	0000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Guidance from bank	6 ( <u>1</u> 0.00)	4 (6.67)	29 (48.33)	11 (18.33)	8 (13.33)	2 (3.33)	43 (71.67)	17 (28.33)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bank process	7 (11.67)	3 (5,00)	27 (45.00)	13 (21.67)	6 (10.00)	4 (6.67)	40 (66.67)	20 (33.33)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Form issued by the bank	7 (11.67)	3 (5.00)	22 (36.67)	18 (30,00)	7 (11.67)	3 (5.00)	36 (60.00)	24 (40.00)
5         5         17         23         7         3         29           (8.33)         (8.33)         (28.33)         (38.33)         (38.33)         (11.67)         (5.00)         (48.33)           4         6         13         27         6         4         23         (48.33)           (6.67)         (10.00)         (21.67)         (45.00)         (10.00)         (5.67)         (38.33)	Knowledge about type of loan	3 (5,00)	(11.67)	20 (33.33)	20 (33.33)	8 (13.33)	2 (3.33)	31 (51.67)	29 (48.33)
4         6         13         27         6         4         23           (6.67)         (10.00)         (21.67)         (45.00)         (10.00)         (38.33)	Filling up of forms	5 (8.33)	5 (8,33)	17 (28.33)	23 (38.33)	7 (11.67)	3 (5.00)	29 (48 33)	31 (51.67)
	Knowledge about banks	4 (6.67)	6 (10:00)	13 (21.67)	27 (45.00)	6 (10.00)	4 (6.67)	23 (38.33)	37 (61.67)

	Cer	Genut	Cuit	100	-	TUT New		
Problems	5	value	CIO	oroup-11	CITO	Croup-Iti	T	Total
	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced
Supervision	10 (16.67)	0 (00:0)	40 (66.67)	00(0)	10 (16.67)	0(0:00)	(00)	0(000)
Others	10 (16.67)	00(0)	40 (66.67)	0 (000)	10 (16.67)	0000)	60.	0 (00.00)
Interest rates	7 (11.67)	3 (5.00)	33 (55.00)	7 (11.67)	9 (15.00)	1 (1.67)	49 (81.67)	(18.33)
Funds & capital	8 (13.33)	2 (3.33)	32 (53.33)	8 (13.33)	8 (13.33)	2 (3.33)	48 (80.00)	12 (20.00)
Knowledge & Skill	7 (11.67)	3 (5.00)	34 (56.67)	6 (10.00)	5 (8.33)	5 (8.33)	46 (76.67)	14 (23.33)
Transportation	6 (10:00)	4 (6.67)	24 (40.00)	16 (26.67)	(11.67) 7	3 (5.00)	37 (61.67)	23 (38.33)
Bank Knowledge	3 (5,00)	7 (11.67)	20 (33.33)	20 (33,33)	8 (13.33)	2 (3.33)	31 (51.67)	29 (48.33)
Repayment period	5 (8.33)	5 (8.33)	19 (31.67)	21 (35.00)	4 (6.67)	6 (10.00)	28 (46.67)	32 (53.33)
Insects-pest & diseases	2 (3.33)	8 (13.33)	19 (31.67)	21 (35.00)	4 (6.67)	6 (10:00)	25 (41.67)	35 (58.33)
Marketing	5 (8.33)	5 (8.33)	16 (26.67)	24 (40.00)	2 (3.33)	8 (13.33)	23 (38.33)	37 (61.67)
		(Figure III	the parenthes	the parentheses represents the percentage	percentage)	a car		

Table 5.41, Other problems faced by the

# 14.4 Ranking of constraints faced by the borrowers

Table 5.42 reveals that respondents were facing many constraints during equisition of bank loan from co-operative bank. Amount of loan was the increase challenge to the borrowers and has been ranked as the most encived constraint with a RBQ 33.33, followed by preparation of DPR RBQ 30.67), lack of technical guidance from bank (RBQ 30.00), time of libbursement (RBQ 28.33) were highly ranked constraints reported by the uspondents. On the other hand, subsidiary/ rebate on loan (RBQ 20.00), fibursement of loan (RBQ 14.67), credit facilities and miscellaneous RBQ 12.00), form issued by the bank (RBQ 11.00), knowledge about type of the (RBQ 9.00), bank interest rate (RBQ 8.00), filling up of loan forms RBQ 5.33), repayment period (RBQ 4.67) were perceived as constraints of noperative bank finance, but on a lower scale.

#### 5. PROBLEMS FACED BY THE BANK(ERS)

The following problems were faced by the bankers in financing moultural and allied activities.

#### 15.1 Repayment/ Overdues

The foremost important problem faced by the bankers in general was existence of high overdues. This was caused by non-repayment of dues. Not of the borrowers were not sincere in repaying their dues, and this has unsed stagnation in lending for further developmental activities and others upiring beneficiaries wanting to take loan. Table 5.42. Ranking of constraints faced by the borrowers during acquisition of co-operative bank finance

				Ranks			10 m m	ALLO 2004 - 100
	Constraints	1	11	111	IV	V	N. 15: 42	CVCFall Rank
	Amount of loan	20	12	11	14	3	33.33	Ι
	Disbursement of loan	Ш	18	8	18	5	14.67	IV
	Time of disbursement	17	12	11	6	11	28.33	IV
	Credit facilities	12	23	8	3	14	12.00	IIV
	Technical guidance from bank	18	15	14	11	2	30.00	III
	Bank loan formalities	12	13	6	11	15	12.00	IIA
	Form issued by the bank	11	16	12	10	11	11.00	VIII
	Knowledge about type of loan	6	11	Ш	21	8	00'6	IX
	Filling up of loan forms	8	6	14	22	7	5.33	ШΧ
	Repayment Period	7	7	12	24	10	4.67	XIII
	Bank interest rate	8	9	21	18	7	8.00	X
-	Preparation of DPR	23	5	17	6	6	30.67	П
-	Subsidiary / rebate on loan	15	. 12	16	6	8	20.00	N
	Guarantor / securities required	6	11	15	11	14	6.00	IX
	Miscellaneous	12	14	13	13	80	12.00	ΝΠ

#### us.2 Distance and Supervision

The co-operative bank in general gives financial assistance to people on all walks of life, even financing to the remote ateas and other localities, if which has caused supervision problems due to poor connectivity and the stance between the bank branch and the loanees. Bank related information at needs to be passed to them (farmers) gets delayed. Also, the distance has used the problems in imparting training to them.

#### 15.3. Uneven distribution of borrowers

The bankers also face uneven distribution of borrowers which has led to apervision problems. Though they have come up with the idea of group mowing and area approach system for better supervision yet, the problems at not always solved as there are no respondents from the target area while here are individuals who want loan are not from the target groups/area.

# 154. Unfaithful nature and misulilization of funds by the borrowers

It has also been found that there are borrowers who are unfaithful ards supervision officials especially when the official/staff goes for utuating the projects of the borrowers. The problem is such that the banker disit difficult to evaluate the actual benefits or significance of bank loans to borrowers as they divert the loan to other activities or towards mumption purposes. The misutilization of bank loan in the study may not due to lack/inadequate funds but due to unfaithful nature of the unowers. Misutilization of the funds allotted to them is one of the major mos leading to problems of non-repayment of the dues on time.

#### 15.5. Untimely submission of form

The bankers also observed that borrowers submitted their loan proposal ine. If the loan is sanctioned to these borrowers, there may be a possibility of inversion of the loan. There is also a chance of repayment problem as the loan sinctioned may not be able to generate returns to repay the installment on due inte. Thus, the bankers face the problem of advancing the loans in odd times.

#### \$15.6. Human resource and Logistic support

One of the main reasons why co-operatives bank are lacking in the slate a due to lack of human resources. Lack of manpower has limited the bank's opansion as well as supervision. Due to limited bank branches more areas his to be covered by a bank branch in that locality, this has caused work load on the bankers especially on the limited field staff who has to cover more mas/villages. The limited bank staff that are work loaded with are faced with poor or lack of logistic support and poor communication to do their works efficiently.

#### 515.7. Productivity

Apart from misutilization and diversion of loans for other uses, the use of modern technology in the farming system is lacking which reduces their productivity. The farmers neither are ready to participate in trainings on modern means of farming nor are willing to use modern technology in the farming system.

# CHAPTER-VI

# SUMMARY & CONCLUSION

# CHAPTER - VI

# SUMMARY & CONCLUSION

Agriculture is the mainstay of Indian economy not only in terms of antribution to the gross domestic product but also the people dependent non it. In the last few years, the Indian economy has emerged as one of the fastest growing economies in the world. Many economist and policy wakers believe that the future growth of the domestic economy, to a large otent, will depend on the robust performance of the agricultural and rural world. The manufacturing and service sectors cannot sustain the economy's growth if the rural sector underperforms.

The role of banks in rural upliftment and the effectiveness of banks is a tool for socio-economic, and over all development of the rural people consists of a broad spectrum. The success or failures of any enterprises depends to a large extend on availability of finance.

The contribution of the banking and financial sector to the current conomic growth of the Indian economy is very significant. However, the itess of banking services to the rural, agriculture and the common man in pineral is not as promising. In India, the focus of the financial inclusion at resent is more or less confined to ensuring a bare minimum access to a avings bank account without frills to all. The rural population in India infers from a great deal of indebtedness and is subject to exploitation in he credit market due to high interest rates and the lack of convenient access to credit. Rural households need credit for investing in agriculture ind smoothening out seasonal fluctuations in earnings. Since cash flows ind savings in rural areas for the majority of households are small, rural inscholds typically tend to rely on credit for other consumption needs like education, food, housing, household functions, etc. Rural households red access to financial institutions that can provide them with credit at ower rates and at reasonable terms than the traditional money-lenders and hereby, help them avoid debt-traps that are common in rural India.

Micro finance is a broad term that includes deposits, loans, payment ervices and insurances to poor. A success indicator of micro finance lies in a credit-plus' approach, where the focus has not only been on providing andit, but to integrate it with other development activities. One such agency that provides micro finance is the co-operative bank. A co-operative tunk is a financial entity which belongs to its members, who are at the une time, the owners and the customers of their bank.

Agriculture along with livestock rearing and other allied agricultural activities is a common aspect seen in most tribal houses of India and plays in important part, especially in the lives of the North-Eastern Hill Region people. Since agricultural operations are seasonal, family labour may become ideal, leading to decreased labour efficiency and unemployment problems. Agriculture and allied activities helps to supplement the farm income as well as utilizes the surplus resources of the farm. To remove or impress such problems, one important measure is financing them to take impress through banking sectors.

Although a few studies on macro aspects of agricultural credit have been undertaken, yet specific studies to highlight the status of agricultural fnance in the Northeastern India is lacking.

The broad objective of the study is to examine the magnitude of financing made by Co-operative Bank on Agricultural and Allied activities and the impact on the borrowers in promoting productivity, income generation and the employment generated in the study area. Also, to ansider the broad based impact of credit on production potential and all mund development of rural people, the present study entitled," A study on Co-operative Bank in financing agricultural and allied activities with special reference to Dimapur district of Nagaland" has been undertaken furing the year 2010-12.

# **A1 SUMMARY OF THE FINDINGS**

#### 1.1. Status of bank network in Nagaland

The findings on the status of bank branch showed that as on March 2012, there are 19 Commercial Banks with 93 branches, Regional Rural Bank with 9 branches and 1 Co-operative Bank with I branches with a total of 123 bank branches operating in Nagaland. At present there are 52 bank branches located in rural areas and 71 in Remi-urban areas. Data showed that there is a least growth in the bank branches in the past few years. The current network of banking in the state is however far from being adequate. Out of the 74 Development Blocks in Nagaland, 32 Blocks are still un-banked. The people living in the un-banked areas have to travel a long way to the nearest banks. The bank branches failed to reach the areas where they are needed the most, the rural areas. Most of the Banks are situate in the commercial hubs like Dimapur, Kohima, Mokokchung and Wokha.

The status of loan and advances from NABARD in Nagaland over the past years showed that there was an increase in the overall growth rate from 10.34 per cent in 2010-11 to 16.10 in 2011-12. The major share of advances during the year 2011-12 was released to the Commercial Banks followed by the RRB and then the SCB. The agency-wise break-up indicates that the SCB has the highest growth rate of 59.79 per cent.

As on March 2012, the aggregate deposits showed an increased growth rate of 64.08 per cent from 24.37 per cent in 2010-11, with RRB having the highest growth rate of 36.41 per cent.

The Credit-Deposit (CD) ratio of all the banks as on March 2012 showed an increase from 27.79 during 2010-11 to 28.28. Bank-wise analysis revealed that only the SCB has an increase in the CD ratio to 36.24 from 25.80 during 2010-11. On analysing the table the SCB has the highest credit deposit growth rate of 40.46 per cent. This indicates that the SCB had performed better than their counterpart in terms of bank credits and deposits.

The Annual Credit Plan for the entire bank in Nagaland was estimated to the tune of  $\gtrless$  32,479.32 lakhs during the year 2011-12, for the disbursement to the priority sector. The overall flow of the credit during the year 2011-12 showed that the credit plan for Agri and Allied sector had increased, while Other sector and Industries was seen to have decreased.

A total of 16,800 numbers of Kisan Credit Card were fixed under the Annual Credit Plan (2011-12) of which the highest achievement was made by the CBs whose achievement percentage was 59.71 per cent, followed by the SCB with 51.06 per cent achievement and the RRB with only 21.71 per cent achievement. The overall achievement was found out to be 55.40 per cent which is only half the mark of the total sanction amount and numbers.

NABARD refinance support for meeting investment credit of banks during the year 2011-12 showed that of the total amount 81 per cent (7 500 lakhs) was refinanced to the SCB and the other 19 per cent (7 115.04 lakhs) was refinanced to the CBs, whereas the RRB was not refinanced.

# 6.1.2. Status co-operative bank in Nagaland

The Nagaland State Co-operative Bank management is governed by Board of Directors comprising of 16 Directors, of whom the State Government is represented by the Addl. Chief Secretary & Finance Commissioner, Commissioner & Secretary Co-operation & the Registrar of Co-operative Societies, representative from NABARD as ex-officio Member, besides one Director representing Primary Agricultural Co-operative Societies from each District and the Managing Director of NSCB who is the Member Secretary. It was observed that the SCB investment was seen to have a negative rowth rate of -2.66 per cent, but the CD Ratio was recorded the highest are the years with 36.00 per cent during the year 2011-12 with a growth rie of 41.29 per cent which was a drastic improvement over the previous war (2010-11) with a growth rate of only 3.92 per cent. The recovery performance was also observed to have improved, with a recovery performance of 60.78 per cent. The overall Net Profit-Loss was found out to he highest during the year 2011-12 with a net profit growth rate of 42.09 per cent.

The total membership rose to 13,150 with a growth rate of 15.05 during 2011-12.

Funds required for lending and investments are raised through ewned funds, public deposits and borrowings from the State Govt., and NABARD.

The share capital was observed to have increased with a growth rate from 3.54 per cent (during 2010-11) to 7.88 per cent (during 2011-12). It was observed that the highest share of capitals in all the years comes from the contribution share of the State Government.

The total reserves was found highest during the year 2011-12 which stood at ₹ 382.79 lakhs (growth rate of 7.29 per cent) as on 31 March 2012, but the growth rate was found highest during the year 2007-08 with a growth rate of 36.39 per cent.

The own funds was found to be ₹ 3,932.28 with a growth rate of 7.84 percent as on March 2012 which was also recorded the highest.

The deposits of the Bank have increased from ₹ 32,310.50 lakhs as on March 2011 to ₹ 36,683.45 lakhs as on March 2012, making it the highest total deposits (growth rate of 13.53 per cent). Though the total deposits have increased, the growth rate of total deposits was observed decreasing during the past years. Under borrowings, there has been only a marginal growth in the overall borrowings during the year 2011-12. The highest source of borrowings during the year 2011-12 was seen from the NABARD ARF (Refinance) to the tune of ₹ 580 lakhs, followed by NABARD SAO with ₹ 375.10 lakhs and then by NSTFDC borrowings of ₹ 69.13 lakhs.

The distribution of the annual flow of loan and advances showed that it was increasing year after year in an increasing order. The total flow of credit from the SCB reached a new height of  $\gtrless$  9,242.91 lakhs (during 2011-12) from  $\gtrless$  4,762.74 lakhs (during 2010-11). The flow of credit to the consumer loan was found highest, followed by cash credit, then agriculture and allied sector and then the SHG for medium term loan.

The recovery position of the State Co-operative Bank showed a significantly increased in the recovery of the principal credit distributed from 58.40 per cent as on March 2011 to 60.78 per cent as on March 2012.

#### 6.1.3. Socio-economic status of the respondents

There were a total of 120 respondents, 60 respondents from the horrowers and 60 from the non-borrowers. The borrowers had 10 respondents with marginal land holdings, 40 respondents with small land holdings and 10 respondents with medium sized land holdings. On the other hand the non-borrowers had 8 respondents with marginal land holdings, 32 respondents with small land holdings and 20 respondents with medium sized land holdings.

Both the borrowers and non-borrowers each had 7 respondents with agricultural based activities, 20 respondents with fishery based activities and 33 respondents with animal husbandry activities.

The average family size of the borrowers was found to be 5.53 with male population (55.20 per cent) higher that the female (44.80 per cent). The

mon-borrowers also have a male population (52.25 per cent) higher than the male (47.74 per cent) with an average family size of 4.80.

The sample respondent's farm family illiteracy rate was found to be 6.18 per cent for the borrowers and 15.63 per cent for the non-borrowers. The proportion of male and female literacy under borrowers was found to be 55.20 per cent for male and 44.80 per cent for female, whereas for the con-borrowers it was found to be 52.74 per cent for male and 47.74 per cent for the female. On the type of education level attained, High School level was found to be prevalent (48.27 per cent) under borrowers and Primary schooling (37.85 per cent) under non-borrowers.

The borrowers' primary occupation was observed to be agriculture (#77 per cent) and also with a dominant agriculture as their secondary ecupation (70.93 per cent). Under non-borrowers, agriculture was found to be the primary occupation (48.70 per cent) and also their secondary ecupation (41.75 per cent). These findings revealed that agricultural ectivity played a dominant role in the study area.

The total work force of the borrowers was found to be 81.60 per cent and 78.13 per cent for the non-borrowers. The male workers in both the case (borrowers and non-borrowers) was found to be higher than the female workers.

### 1.4. Land inventories of the respondents

The overall average land holding was found to be 0.73 ha for the horrowers and 0.89 ha for the non-borrowers. Under borrowers, Group I have an average holdings of 0.43 ha, Group II with 0.69 ha and Group III with an average of 1.19. The non-borrowers Group I have and average holdings of 0.44 ha, Group II with 0.78 ha and Group III with 1.24 ha.

The borrowers' maximum utilization of land was found to be for the se of agricultural operation. Land under vegetable cultivation accounts

~119~

for 30.16 per cent and land under paddy accounts for 27.11 per cent of the total land holdings. The non-borrowers maximum land use was seen under agriculture for the production of paddy accounting for 35.87 per cent and vegetable cultivation with 15.39 per cent of the total available land.

# 6.1.5. Agriculture and allied activities of the respondents

The borrowers had a total cropped area of 46.34 ha, with a total production of 4,163.78 kg and a sold out value of ₹ 46,369.50. Observation revealed that, majority of the production comes from cereals accounting for 66.15 per cent of the total production and also with the highest sold out value (61.97 per cent) of the total sold out value. On the other hand the non-borrowers have a total cropped area of 36.69 ha, with a total production of 4,361.84 kg and a total sold out value of ₹ 19,292.85. The income generated from the borrowers had a higher sold out values than the non-borrowers.

The average cost of cropping for the borrowers was found to be ₹ 48,276.65 and ₹ 28,595.69 for the non-borrowers. The maximum cost incurred under cropping for both the borrowers and non-borrowers was the cost of labour. The cost of production was found to increase with increase in the land holding i.e. from marginal to medium size land holding.

The distribution of respondents' livestock inventories showed that the borrowers, on an average have a total current livestock value of 32,663 and the non-borrowers with a current average value of  $\gtrless$  15,173.33. The maximum present value was found to be from piggery with an average value of  $\gtrless$  23,800 per borrower family and  $\gtrless$  11,500 per non-borrower family.

The cost of livestock production on an average was found to be ₹ 32,496.73 and ₹ 14,653.45 for the borrower and the non-borrowers

respectively. Under both the cases (borrowers and non-borrowers), the highest cost was incurred on the purchase of animals for rearing accounting to an average of ₹ 11,278.40 (34.71 per cent) and ₹ 5,264.18 (35.92 per cent) respectively, followed by the feeding cost, with an average of ₹ 8,243.25 (25.37 per cent) for the borrowers and ₹ 3,779.96 (25.80 per cent) for non-borrowers.

The borrowers' average net return from livestock production was found to be ₹ 55,371.26 and ₹ 33,648.17 for the non-borrowers. The highest average return for the borrowers was found to be from cattle with a return of ₹ 27,979.33 (50.53 per cent) and for the non-borrowers it was from piggery with an average of ₹ 23,741.50 (70.56 per cent). The item-wise breakup of return from different source revealed that sale of mature animals contributed the highest, with an average sold out value of ₹ 30,422 (54.94 per cent) for the borrowers and ₹ 23,686.04 (70.39 per cent) for the non-borrowers.

The overall average cost of fish production was found to be 1 11,455.63 for the borrowers and  $\gtrless$  8,091.96 for the non-borrowers. The total cost incurred was found increasing with the increase in the farm size under both the cases of borrowers and non-borrowers. The highest cost incurred for fish production was the feeding cost, with an average cost of  $\end{Bmatrix}$  4,626,53 (40.39 per cent) and  $\gtrless$  3,610.25 (44.62 per cent) for borrowers and non-borrowers respectively.

The respondents' average yield from fish production was found to be 250 kg, with a worth value of ₹ 25,026.67 for the borrowers, whereas for the non-borrowers, it was found to be 154.73 kg, worth ₹ 15,472.50. The average sold out value of fish for the borrowers was found to be ₹ 23,670.83 and ₹ 14,760.83 for the non-borrowers. Comparatively, in terms of yield and return from fish, the borrower was found to be better off than its counterpart, the non-borrower.

The average cost of plantation was found to be ₹ 2,029.73 for the borrowers and ₹ 4,086.33 for the non-borrowers. The highest cost incurred was the labour cost under both the cases. The average total return from plantation for the borrowers was found to be ₹ 1,136.67 and ₹ 1,926.56 for the non-borrowers. The borrowers' total return from sale of the products arcounts for 61.58 per cent and for the non-borrowers it was 60.77 per cent.

# 6.16. Expenditure and income of the respondents

The borrowers on an average, per annum have a total expenditure of  $\langle 1,22,3,46,56, \rangle$ , whereas for the non-borrowers it was found to be  $\gtrless$  88,838.89. The total expenditure for the borrowers was incurred from on-farm expenditure (50.74 per cent) and the family-needs expenditure (49.26 per cent), whereas for the non-borrowers it was found to be 30.15 per cent for on-farm expenditure and 59.07 per cent for family-needs expenditure. The highest expenditure incurred was for animal husbandry with an expenditure amount of 26.56 per cent for the borrowers and for the non-borrowers the highest expenditure was incurred for the household needs amounting to 30.15 per cent.

The respondents' annual income from different sources was found to be  $\gtrless$  1,38,136:10 per respondents for the borrowers and  $\gtrless$  83,389.81 for the non-borrowers. Of the different source of income, animal husbandry contributes a major share, on an average contributing 40.08 per cent to the horrower's income and 34.02 per cent to the non-borrowers income. The mome was found to increase with the increase in the farm size under borrowers. On comparison, borrowers' income generated from agricultural, animal husbandry and fishery was found higher than the non-borrowers in all the cases. This implies that the income impact was positive on the borrowers:

# 6.1.7. Impact of co-operative bank finance on employment and income

The total average number of mandays generated for the borrowers was found to be 305.62 mandays, with male employed for 161.64 days (52.89 per cent) and female for 143.98 mandays (47.11 per cent). The non-borrowers average number of mandays was out to be 211.65 mandays, with male employed for 117.95 mandays (55.73 per cent) and female for 93.70 mandays (44.27 per cent). Of the different agricultural activities, crop production was found to generate the highest employment mandays, generating 134.33 mandays (43.95 per cent) for the borrowers, whereas for the non-borrowers it generated 68.76 mandays (32.49 per cent). The borrower's average number of person employed was found out to be 11.17 perfamily and 9.02 persons per family for the non-borrowers.

There was a significant increasing trend on the borrower overall groups. The increase in income from crop production was found to be 26.27 per cent, animal husbandry with 48.12 per cent, fishery enterprise with 10.79 per cent, plantation enterprise with 16.33 per cent and other agriculture and allied activity had increased to 42.55 per cent on the sample respondents after getting the co-operative bank finance. It also showed a significant increase on the overall group employment. Employment from crop production was increased to 27.32 per cent, animal husbandry to 45.25 percent, fishery enterprise to 10.12 per cent, plantation enterprise to 15.83 percent and other agriculture and allied activity had increased to 35.34 per cent.

## 6.1.8. Resource use efficiency of the respondents

Cobb-Douglas Production Functions was used in the present study for the assessment of the resource use efficiency of different enterprises. The production function of different enterprises were fitted as regressing gross return (y),  $x_1$ ,  $x_2$ ,  $x_3$ ,  $x_4$ ,  $x_5$ ,  $x_6$ ,  $x_7$  and  $x_8$  in terms of rupees ( $\overline{x}$ ) as independent variables on marginal, small and medium farm size groups as well as overall farm size group.

By aggregating the cross-sectional data of all the farms in various fam size groups under beneficiaries, the value of R<sup>2</sup> was found to be 0.9956, which shows that 99 per cent of the variation of dependent variable explained by the independent variation chosen in the equation. Even on the non-beneficiaries the overall of R<sup>2</sup> was found to be 99.96 per cent, which shows a good fit of the selected model. The remaining Variation of dependent variable might be due to other variables, which have been used in excess or not properly used.

The overall regression co-efficient of input a (constant) was found to have a positive significant at 1 per cent and 10 per cent level for the beneficiaries and non-beneficiaries respectively, which indicate that the model is a good fit.

The regression co-efficient of  $x_1$  (human labour cost) for beneficiaries was found maximum (0.24) on the overall and minimum on the small size group (0.19) and was found significant at 10 per cent level of significance, while on marginal and medium size group it was found non-significant. The non-beneficiaries human labour had significance on the marginal (0.94) and small (0.96) size group at 10 and 5 per cent level of significance respectively.

In case of x<sub>2</sub> (seed/sapling/animal/fingerling cost) it was found to be positive and significant at 10 per cent level of significance in the entire size group under beneficiaries. x<sub>2</sub> was also found significant under non-beneficiaries in all the group size. It indicates a good fit with more potential in compare to other inputs toward the gross returns.

The regression co-efficient of  $x_3$  (fertilizer) on the beneficiaries was found to be statistically significant at 1 per cent level only in medium farm size group (25.75), while on the non-beneficiaries it was found significant on the medium and the overall. The x4 (plant protection) was found significant only in the small size group under beneficiaries and significant at 10 per cent level of significance, whereas, it was not found significant in any of the group under non-beneficiaries.

The value of x<sub>5</sub> (machineries) was found significant only in the overall group under beneficiaries and significant at 1 per cent level, while on the non-beneficiaries it was found significant on the small and overall group, significant al 10 per cent level of significance.

The value of x<sub>6</sub> (transportation) for the beneficiaries was found to be statistically significant at 10 per cent level in small size and medium farm group and the overall groups at 1 per cent level of significant, which shows a positive significant contribution of the input to the gross returns. Under non-beneficiaries marginal and medium size group was found significant at 10 per cent level of significance.

The value of x7 (marketing cost) was found significant in all the groups and also on the overall under beneficiaries and non-beneficiaries, which shows a positive significant contribution of the inputs to the gross return.

The value of  $x_8$  (miscellaneous) was found to be significant only in the medium size and statistically significant at 10 per cent level under beneficiaries, while under non-beneficiaries it was not found significant.

To evaluate how efficiently the farmers of the study area have been utilizing their resources, the Marginal Value Product (MVP) of an input was compared with its respective factor cost. The gross sectional data of overall farm size have been aggregated and the ratio of MVP to its factor cost was computed. It was observed that ratio of x<sub>1</sub> to x<sub>8</sub> was found to be positive as well as negative values. Positive value indicates increase return, the greater than unity the higher the gross return which highlight that the farmers can incurred more investment on those inputs for getting better returns, while the negative values indicating either excess use of inputs and

~ 125~

adverse response towards the gross return, which needs to be curtailed immediately and further investment of such inputs must be shifted towards the higher results inputs which will provide the positive contribution to the gross return.

The value of MVP for  $x_1$  (human labour cost) was found to be positive for the entire farm size groups. Under beneficiaries, an addition of one unit of the  $x_1$  input would be adding a value ranging from 4.21 to a maximum of 45.79, whereas in the non-beneficiaries it would be adding a value in the range of 34.55 to 217.61.

The value of MVP for  $x_2$  (seed/sapling/animal/fingerling cost) was found to be positive for all the farm size groups. The value ranges from 43.47 to 932.56 for the beneficiaries and from 31.79 to 108.51 for the non-beneficiaries.

The MVP of x<sub>3</sub> (fertilizer) was found to be positive for medium farm size (120.51) and negative for the marginal (-18.83) and the small (-21.52) farm size on the beneficiaries. The negative MVP means that addition of one unit of the input x<sub>3</sub> would reduce the return ranging from 18.83 to 21.52. Also the MVP of x<sub>3</sub> for the non-beneficiaries was found to be positive on medium farm size (727.59) and negative On the marginal (-420.76) and small (-182.76) farm size of the beneficiaries.

The MVP of  $x_4$  (plant protection) in marginal size and small size was found to be positive and negative for the medium size group and the overall group on the beneficiaries. Whereas, for the non-beneficiaries the marginal, small and medium farm size had a negative value indicating that the addition of a unit will reduce the return and only the overall had a positive value.

The MVP of xs (machineries) of beneficiaries under marginal and medium farm size groups was found to have negative values, indicating that addition of one unit of these inputs would decrease the gross return, while the small and the overall group was found to have positive values.  $\sim 126 \sim$  The farm size groups all had negative values under non-beneficiaries, only the overall had a positive value. The additional investment of one unit to these inputs would be decreasing the gross returns and would not contribute their share to the gross return of a farm.

The MVP of  $x_6$  (transportation) in small, medium and overall farm size group under beneficiaries was found to be positive, indicating that addition of one unit of this input will increase gross return by 16.83 to 244.00. While under non-beneficiaries it was found to be positive for all the groups and the overall groups with value ranging from 1.24 to 70.07.

The MVP of x<sub>7</sub> (marketing cost) was found to be positive on the entire farm size groups. Under beneficiaries, an addition of one unit of the x<sub>7</sub>input would be adding a value ranging from 1846.51 to a maximum of 9547.08, whereas, in the non-beneficiaries it would be adding a value return in the range of 3.35 to 1031.55.

The MVP of  $x_8$  (miscellaneous) for beneficiaries under marginal, small and overall farm size groups was found to be negative, indicating that addition of one unit of these inputs will decree their gross return, and only the medium farm size had a positive value. The marginal and small farm size under non-beneficiaries had negative values, whereas, the medium and the overall groups had a positive value.

#### 6.1.9. Status of bank loan received by the borrowers

Group I (Marginal farm size) had ten (10) loanees who took loan for animal husbandry. Under Group II (Small size) there are 3 borrowers for agriculture, 15 for fishery and 22 for animal husbandry. Under Group III (Medium Size) there are 4 agricultural loanees, 5 fishery loanees and 1 animal husbandry loanees. Categorizing the loanees under different enterprises, the maximum amount disbursed per loanee was found highest under animal husbandry with an average amount of ₹ 63,969.70, followed by agriculture with ₹ 57,685.71 and then by Fishery with ₹ 48,890.

The finding revealed that the borrowers a whole borrowed an amount of ₹ 34,92,600, with an additional interest amount of ₹ 4,19,112. The total amount due for repayment was found to be ₹ 39,11,712, out of which ₹ 14,71,000 (37.61 per cent) was paid and with a balance of ₹ 24,40,712.00 (62.39 per cent). Across the different Groups, Group I have a balance of 55.94 per cent, Group II with 63.64 per cent and Group III with 64.38 per cent. Under the mode of repayment, partial repayment was found to be dominant with 81.67 per cent. The balance due for repayment was found to be increase with the increase in the farm size, which indicates that, the marginal farmers was found more punctual in repayment of the loans than the small and medium size farmers.

The overall utilization of the bank loan for which it was sanctioned was found out to be 41.70 per cent; the remaining was used for other productive uses on the farm (14.52 per cent) as well as non-productive uses for home consumption (43.78 per cent). Apart from the actual usage, the maximum funds were diverted to household consumption needs which accounted for 33.13 per cent of the total loan. Under the different categories of borrowers, Group I utilized 46.28 per cent for the actual loan purpose, 282 for other productive purpose and 50.90 per cent for non-productive uses. Group II utilized 40.78 per cent for the loan purpose, 15.52 per cent for other productive uses and 43.70 per cent for non-productive uses. Group III utilized 40.42 per cent for actual loan purpose, 23.25 per cent for ather productive uses and 36.33 per cent for non-productive uses. The purpose utilization of bank loan was found to be better in Group II (40.28 per cent), followed by Group II (40.72 per cent) and then by Group III (40.42 per cent).

# 6.1.10. Problems faced by the borrowers

The highest incidence of the problems faced in utilization of the loan was found to be for, the time of disbursement of bank loans, with 60 (100 per cent) respondents facing such problems, followed by problems faced in disbursement of loan (instalment release) faced by 33 respondents (55 per cent), other needs (46.67 per cent) and the amount (21.67 per cent).

The highest problems faced in acquiring loans was the Guarantor/ Securities/ Certificates, faced by 60 respondents (100 per cent), followed by guidan œ provided by the bank faced by 71.67 per cent, bank process faced by 66.67 per cent, form issued by the bank faced by 60 per cent, knowledge about type of loan faced by 51.67 per cent, filling up of forms faced by 48.33 per cent and by knowledge about banks faced by 38.33 per cent.

The other related problems faced by the respondents was found highest with the supervision and other agricultural and allied problems faced by 100 per cent, followed by interest rates faced by 81.67 per cent, funds & capital faced by 80 per cent, knowledge & skill problems faced by 76.67 per cent and other problems viz., transportation, bank knowledge, repayment period, insect-pest & diseases and marketing.

Amount of loan was the foremost challenge to the borrowers and has been ranked as the most perceived constraint with a RBQ 33.33, followed by preparation of DPR (RBQ 30.67), lack of technical guidance from bank (RBQ 30.00), time of disbursement (RBQ 28.33) were highly ranked constraints reported by the respondents. On the other hand, subsidiary/ rebate on loan (RBQ 20.00), disbursement of loan (RBQ 14.67), credit facilities and miscellaneous (RBQ 12.00), form issued by the bank (RBQ 11.00), knowledge about type of loan (RBQ 9.00), bank interest rate (RBQ 8.00), filling up of loan forms (RBQ 5.33), repayment period (RBQ 4.67) were perceived as constraints of co-operative bank finance, on a lower scale.

# 6.1.11. Problems faced by the bank(ers)

The foremost important problem faced by the bankers in general was the existence of high overdues. This was caused by non-repayment of dues. Most of the borrowers were not sincere in repaying their dues, and this has caused stagnation in lending.

The co-operative bank in general gives financial assistance to people from all walks of life, even financing to the remote areas and other localities, and which has caused supervision problems due to poor connectivity and the distance between the bank branch and the loanees.

The bankers also face uneven distribution of borrowers which has led to supervision problems.

It has also been found that there are borrowers who are unfaithful towards supervision officials. The misutilization of bank loan in the study may not be due to lack/inadequate funds but due to unfaithful nature of the borrowers.

The bankers also observed that borrowers submitted their loan proposal late. If the loan is sanctioned to these borrowers, there may be a possibility of diversion of the loan. There is also a chance of repayment problem as the loan sanctioned may not be able to generate returns to repay the installment on due date.

One of the main reasons why co-operatives bank are lacking in the state is due to lack of human resources. Lack of manpower has limited the bank's expansion as well as supervision.

Apart from misutilization and diversion of loans for other uses, the use of modern technology in the farming system is lacking which reduces their productivity. The farmers neither are ready to participate in trainings on modern means of farming nor are willing to use modern technology in the farming system.

## 6.2. CONCLUSION & SUGGESTIONS

The co-operative bank finance was observed to have a positive impact on 42.55 per cent of the beneficiaries to enhance their income and further it had the capacity to generate more income through agriculture and allied enterprises. Bank finance also had a positive impact on 35.34 per cent enhancement of mandays employment, which further showed prospect of generating more mandays employment by taking up the different enterprises.

As more entrepreneurs/farmers come forward to start any agriculture related activities, financial support by the co-operative banks must be extended to them as being socially acceptable and economically feasible. One enterprise alone is not sufficient enough to raise the employment and income level and further if more employment and income are to be generate throughout the year more enterprise have to be incorporate for which, loan/credit must be provided to the beneficiaries by extending micro-finance required based on the performance.

The foregoing study had brought out the following suggestions, which are expected to result greater success to the beneficiaries and bankers of co-operative banks in Nagaland.

- The main reasons co-operatives bank lacking in the state are due to lack of human resources and connectivity. Lack of manpower has hindrance on the bank expansion as well as supervision. There is a need to employ more staff for the functioning and expansion of the bank.
- 2 Slackness in recovery of loans, resulting in mounting overdues is undermining the soundness of credit structure in many areas and has led to stagnation. These high overdues have created obstacle for other beneficiaries from getting the required amount. This points to the deficiencies in loaning policies, inadequate arrangements for supervision and weaknesses of internal management of the bank

officials. Systematic efforts need to be made both by the State Government and by the bankers towards substantial reduction of overdues. Attention is also needed to incorporate and strengthening the recovery staff and other concerned departments.

- 3. Development programmes at block level with facilities and extension services must be strengthened in order to make the rural people aware, to set up enterprises efficiently in terms of increasing their income and employment, to enhance the production/ productivity through the agriculture and allied enterprises to achieve selfsufficiency of the state in the days to come.
- 4. Apart from misutilization and diversion of loans for other uses, the use of modern technology in the farming system is lacking which reduces their productivity. Concern Government department should train and encourage the farmers. The department of agriculture and allied department should take the initiative to conduct training and equip the farmers with the modern techniques of cultivation practices so as to increase their productivity and thereby increased their economy.
- 5. The bankers also faces uneven distribution of borrowers, which also leads them is supervision problem. The idea of group borrowing and area approach system should be practised by the bank.
- 6. Misutilization of the funds allotted to the farmers is one of the major factors in the problems of non-repayment of the dues on time for which the loan was taken. Instalment releases should be encouraged with strict guidance and supervision.
- 7. The bankers should make public through mass media about the type of loans and criteria's and also the date of submission of forms in order to prevent late submission of loan proposals.

- 8 Self Help Groups should be encouraged by the co-operative banks even to the remote areas.
- 9. Government should take appropriate steps to establish connectivity, adequate marketing facilities and transport system to better communication.
- 10. Other institutional credit facilities at a nominal rate of interest should be made available to the farmers to take up new enterprises.
- Formation of co-operative organisations should be encouraged in the village level.

# 6.3. LIMITATIONS OF THE STUDY

The present study was conducted with a view that its result may be useful to the researcher, planners, co-operative bank personnel's, administrators and extension workers who are engaged in generating and disseminating credit schemes for the upliftment of the farmers of all groups in general and marginal farmers in specific. An attempt was made in this study to analyzed these factors, which would affect the availing, utilization and repayment of agriculture credit by farmers and to suggest measures to formulate strategies to increase the utility of agriculture credit.

The limitations of the study are as follows-

- The major limitation of the present study was with regards to the time, study area and other research facilities usually faced by a single researcher.
- The present study confined to only one district of Nagaland and the selection of the district was purposive hence scope of generalizations with respect to Agricultural credit and its impact on overall development of borrowers in other districts as is limited. Hence, the study does not claim to generalize the findings on large scale.

~[33~

Study is based on individual's perception and expressed opinion. Although attempts had been made to extract information from the respondents nearest to the truth but possibility arises that information provided by some respondents might not be accurate as there was no written record maintained by the respondents, therefore they had to rely on the recall memory.

- Most of the utilized variables were measured at nominal and/or ordinal levels not permitting the use of parametric statistical tests extensively.
- Some borrowers as well as non-borrowers were found to hesitate to give their responses easily on income, expenditure etc. aspects, which posed limitations in the present study.
- The study was conducted based on the expressed opinion of the respondent's viz., beneficiaries and non-beneficiaries. Therefore, possibility of error in recollecting or recalling can't be ruled out.

# **BIBLIOGRAPHY**

## **BIBLIOGRAPHY**

- Agarwal, N. C. 1974. Problems of Co-operative Banks & Solution. Indian Journal of Commerce. 27, (98): 35-38.
- Agarwal, N. L. and Kumawat, R. K. 1974. Potentialities of increasing farm income through credit in the district of Jaipur (Rajasthan). Agricultural Situation in India. 29. (7): 486-489.
- Agrawal, R. Sachin and Solanke, Dr. S. S. 2002. Problems faced by co-operative banks and perspectives in the Indian Economy. International Journal of Commerce, Business and Management. 1. (2): 53-54.
- Akmal, Nadeem.; Taj, Sajida.; Shah, N. A. and Shah, Hassnain. 2005. Short-term impact of micro credit in development project Punjab area. Indus Journal of Plant Sciences, 4. (2): 196-203.
- Anandam, M. A. and Namasivayam, N. 1988. Co-operative overdues- the influence of socio-economic factors of borrowers- A case study. Indian Cooperative review. 25. (3): 293-297.
- Anandan, L. 1979. A study on the pattern of agricultural financing by the State Bank of India in Alandurai- An adopted village in Coimbatore district. *Financing Agriculture*. **10**. (4): 29-33.
- Anonymous. 1987. State Bank of India, Impact of Bank Credit on weaker Sections in Kerata. State Bank of India Monthly review. 26. (10): 444-458.

Anonymous. 1993. Annual Report, NABARD 1992-93, Mumbai: 29.

- Anonymous. 1999. Genesis and Architecture of Urban Co-operative Banks. http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?UrlPage=& ID=131 [Accessed 12th Dec 2012].
- Anonymous. 2005. Government of India, New Delhi. Report of the Task Force on Revival of Rural Co-operative Credit Institutions: 5.
- Anonymous. 2007. Developments in Co-operative Banking. http://rbi.org.in/scripts/ PublicationsView.aspx?id=9814 [Accessed 17th Dec 2012]

- Anonymous. 2009. Profile of Dimapur district. National Informatic Centre, Dimapur. http://dimapur.nic.in/\_[Accessed 8<sup>h</sup> Jan 2013].
- Anonymous. 2010<sup>1</sup>. Economic Survey 2010. Ministry of Finance, Government of India. http://indiabudget.nic.in/es2009-10/chapt2010/chapter.zip [Accessed 11<sup>th</sup> Nov 2012].
- Anonymous. 2010<sup>2</sup> Demographic over View of Dimapur district. KVK Dimapur, ICAR Research Complex, Jharnapani, Nagaland, http://kvkdimapur.nic.in/dimapur.htm [Accessed 10th Feb 2013].
- Anonymous. 2011. Statistical handbook of Nagaland. Directorate of economics and statistics, Government of Nagaland.
- Anonymous. 2012<sup>1</sup>. Brief History of Urban Co-operative Banks in India. Reserve Bank of India. http://www.rbi.org.in/scripts/fun\_urban.aspx. [Accessed 13<sup>th</sup> Jan 2013]
- Anonymous. 2012<sup>2</sup> Department of Agriculture & Co-operation, Ministry of Agriculture, Government of India (2012). Multi-State Co-operative Societies Act 2002. http://agricoop.nic.in/coopact02/multistate.htm [Accessed 12<sup>th</sup> Dec 2012].
- Ara, L. A.; Alam, M. F.; Rahman, M. M. and Jabbar, M. A. 2004. Yield gaps, production losses and technical efficiency of selected groups of fish farmers in Bangladesh. Indian Journal of Agricultural Economics, 59, (4): 808-818.
- Ariyarathna, J. and Mula, J. M. 2011. Best financial practices analysis and efficiency of small financial institutions: evidence from co-operative rural banks in Sri Lanka. *Journal of Emerging Trends in Economics and Management Sciences.* 2, (1): 22-31.
- Athavale, M. C. and Mishra, J. P. 1970. Loans Advanced by Land development Banks - Utilization, diversion and measures to prevent diversion. *Indian Journal of Agricultural Economics*. 26. (4): 571-575.
- Aye, N. Khashito. 2012. Nagaland GK. S. P. Printers, Dimapur, India.
- Aynew Belay.; Suhag, K. S. Hasija, R. C. Mehta, V. P. 2003. Structure and flows of agricultural co-operative credit in Haryana: a case study of PACSs. *Annals of Agri Bio Research.* 8, (2): 131-142.

- Bagchi, B. and Sain, K. 1980. Impact of the lead bank and the co-operatives on the farm finance in Nadia district of West Bengal. *Financing Agriculture*, **12**, (1): 6-9.
- Ba), H. S. and Singh, Bant. 1979. Indebtedness among agricultural labourers in Ludhiana district of Punjab. *Agricultural Situation in India*, **34**, (7): 428-431.
- Balishter; Singh, A. K. and Vishwa Jit. 1994. A study of overdues of loans in agriculture. Indian Co-operative Review. 31. (4): 377.
- Barton, D.; Boland, M.; Chaddad, F. and Eversull, E. 2011. Current challenges in financing agricultural co-operatives. Choices. The Magazine of Food, Farm, and Resources Issues. 26. (3): (unpaginated).
- Barua, P. C. 1986. Banking Industry and Rural Development, Rural Development in North East India, proceeding of Seminar on problems of Rural Development in North East India. March. AAU, Jorhat.
- Basak, Amit. 2009. Performance Appraisal of Urban Co-operative Banks: A Case Study. The IUP Journal of Accounting Research. 8. (1): 31-44.
- Batra, J. D. 1977. Rural banks for the rural poor. Kurukshetra. 26. (2): 11-12.
- Bhaskaran, R.; Muralidaran, S. and Roy, K. 2004. Pricing of crop loans by co-operative banks. Occasional Paper National Bank for Agriculture and Rurat Development, Mumbai. 33: 48.
- Bhatia, J. P. 1975. Problems of small farming- A case study of Tribals, Uttar Pradesh. Indian Journal of Agricultural Economics. 30. (3): 238-240.
- Bhoslae, S. R. and Dangat, S. B. 1989. Repayment of Overdues of Medium Term Loans of Co-operative Societies in Kolhapur District. Indian Co-operative Review. 26. (3): 35-42.
- Bhowmick, B. C. 1975. Resource productivity, allocation and farm profitability of jute and paddy in Kamrup district of Assam. M. Sc. (Agri.) thesis submitted to Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (unpublished)
- Block Development Office. 2011. BDO Office, Medziphema. Department of Rural Development, Government of Nagaland.
- Boakye, D. K. 1979. A review of the farm loan repayment problem in low income countries. Savings and Development. 3. (4): 231-235.

- Burkell, P. 1989. Group lending programmes and Rural financing in developing countries; Savings and Development. 13. (4): 401.
- Census of India. 2011. Provisional population Totals-Nagaland 2011. Ministry of Home Affairs, Government of India.
- Chalam, G. V. and Prasad, A. 2007. An evaluation of financial performance of co-operative societies in Andhra Pradesh (A study of selected PACSs in West Godavari District), Indian. Co-operative Review. 45. (1): 42-57.
- Chand, R. and Sidhu, D. S. 1981. Distribution of Agricultural Gredit and concentration of overdues in Punjab. *Financing Agriculture*. 13. (2): 18-22.
- Chatterjee, Susmita. 2009. Expansion of institutional credit: a district level study of rural West Bengal. Prajnan. 37. (4): 285-308.
- Chauhan, K. K. S. 1971. Small farmers and co-operatives. Indian Co-operative Review. 9. (1): 49-51.
- Chidambaram, M. A. 1978. Development credit for agriculture- refinance facilities from ARDC - IDA credit for financing agricultural projects. ARDC News. 7. (3): 43-47.
- Chinnappa, B. 1999. Gredit problems faced by farmers of Bhadra command area in Karnataka. *Rural India*. 62, (4): 99-104.
- Chinnappa, K. 1992. Problems of the District Go-operative Banks. Indian Cooperative Review. 29. (3): 23-27.
- Colombo, G. 1978. Problems of agricultural credit in modern agriculture. *Rivista* di Politica Agraria. 25. (3): 27-31.
- Das, Debabrata. 2000. Go-operative banking in Arunachal Pradesh: a case study. Indian Co-operative Review. 38, (1): 48-62.
- Das, Debabrata. 2001. A study on repayment behaviour of sample borrowers of the Arunachal Pradesh State Go-operative Apex Bank Ltd. Indian Cooperative Review. 39. (2): 139-147.
- Das, Debabrata. 2002. State Go-operative bank and rural development: a case study. Journal of Rural Development (Hyderabad). 21. (2): 251-263.
- Das, Sanjay K and Chaudhury, S. K. 2011. A Study of State Go-operative Banking System in the North Eastern Region of India. International Journal of Consumerism. 1 (1): 35-44.

- Das, Sanjay Kanti. 2012<sup>1</sup>. Operational and financial performance analysis of Meghalaya Co-operative Apex Bank. *Journal on Banking Financial Services & Insurance Research.* 2. (3): 20-39.
- Das, Sanjay Kanti. 2012<sup>2</sup>. State Co-operative Banking in Northeast India: Financial and Operational Viability Analysis. *Journal of North East India Studies*. 2 (2): 20-25.
- Deo, S. 1976. Problems of Agricultural Credit Allocation. Rural India. 39. (7): 140-142.
- Deoghare, P. R.; Sharma, B. M. and Goel S. K. 1991. Impact of Credit and Technology on income and Employment of small farms under different farming systems in Karnal District (Harvana). Agricultural Situation in India: 59-65.
- Deorukhakar, A. C.; Talathi, J. M.; Nikam, M. B. and Patil, H. K. 2007. Impact of Institutional Finance on Farmers Economy in North Konkan Region of Maharashtra, India. International Journal of Agricultural Science. 3, (2): 96-100.

Desai, B. M. 1979. Rural banking in India. Prajnan. 8. (2): 109-113.

- Desai, B. M. and Rao, Y. Narayana. 1978. Default of Co-operative Loans: Problem, Causes and a Strategy for Solution. *Prajuan.* 6. (2): 34-37.
- Desai, V. 1983. Role of financial institutions in rural areas. A study of rural economics, Himalaya Publishing House, Bombay: 370-391.
- Desai, V. V. 1978. Some aspects of farm loans by commercial banks. Indian Journal of Agricultural Economics. 33, (4): 79-84.
- Deshmukh, Jagdish. and Somalkar, Dr. Prakash. 2012. Urban Co-Operative Banks- Past, Present & Future Scenario. Journal Of Research In Commerce & Management. 2. (1): 71-74.
- Dev, S. M. 2004. How to make rural India shine. Economic and Political Weekty. 39, (40): 4415-4422.
- Dhaka, B. L. and Poonia, M. K. 2010. Identification of Constraints encountered by the Farmers in Production and Marketing of Vegetables in Bundi district of Rajasthan. Indian Journal of Agricultural Marketing. 24. (1): 20-2.
- Dhawan, K. C. and Kahlon, A. S. 1978. Adequacy and productivity of credit on the small farms in the Punjab. *Indian Journal of Agricultural Economics.* 33. (4): 91-99.
- Dixit, R. S. 1977. Impact of co-operative finance on farm practices. *Kurukshetra*. **26.** (2): 17-19.

Dutta, P. C. 1973. Role of S.F.D.A. in Assam. Kurukshetra. 11. (13): 1-7.

- Dutta, U. and Basak, A. 2008. Appraisal of financial performance of urban co-operative banks- a case study. *The Management Accountant, Case Study,* March: 170-174.
- Famoriyo, S. 1980. Improved agricultural credit in Nigeria. Agriculturat Administration. 7. (2): 113-121.
- Fernandez, A. P. 2007. History and spread of the self-help affinity group movement in India. International Fund for Agricultural Development (IFAD). Retrieved from http://www.ifad.org/operations/projects/ regions /pi /paper/3.pdf [Accessed on 15th January 2013].
- Finch, Lindley. 1969. Indian and U. S. farmers. Their common problemagriculture finance in India, role of commercial bank. Marketing and Economic Research Bureau. 9, (4): 95-97.
- Gajanana, T. M. and Sharma, T. M. 1990. Income and employment of drought prone farmers- role of credit and technology. Agricultural Situation in India. 45. (5): 300-305.
- Gandhi, V. P. 1999. Institutional Framework for Agricultural Development. Indian Journal of Agricultural Economics. 54. (1): 48.
- Gandhimathi, S. and Vanitha, S. 2009. Repayment and Overdues Determinants of Agricultural Credit: Some Results for Commercial and Co-operative Banks. The IUP Journal of Bank Management. 8. (3 & 4): 54-72.
- Gangaiah, C.; Nagarja, B. and Naidu, C. V. 2006, Impact of self-help groups on income and employment: A case study. *Kurukshetra*. 54. (5): 18-23.
- Ganguar, A. C. and Aggarwal, K. 1988. Borrowing and repayment of farmers pertaining to institutional loans in Kurukshetra district of Haryana, Indian Journal of Agricultural Economics. 43. (4): 136.
- Garg, R. B. L. 1977. Farmers Problem & Credit Co-operative. NCDC Bulletin: 18-21.
- Gaur, Arti. and Khatkar, Shilpa. 2010. Institutional credit flow in agriculture sector in India. Annalso f Agri Bio Research. 15, (2): 111-116.
- Gnanadhas, M. E. and Geetha, P. 2009. Repayment of loan in Employees' Co-operative Thrift and Credit Societies. *Journal of Rural Development* (Hyderabad). 28. (4): 485-490.

- Goel, B. B. 2006. Co-operative Legislation: Trends and dimension. Deep and deep publication, New Delhi, India.
- Gupta, J. K. 1988. Institutional farm financing with special reference to problems of loan recoveries in Jabalpur district. Indian Journal of Agricultural Economics. 43. (4): 129-136.
- Gupta, Jyoti and Jain, Suman. 2012. A study on Co-operative Banks in India with special reference to Lending Practices. International Journal of Scientific and Research Publications. 2. (10): 1-6.
- Gupta, K. K. 2005. Evolution of co-operative credit institutions in India: a viewpoint. National Bank News Review (Mumbai). 21. (2): 1-8.
- Gupta, N. K. and Chopra, Monika. 2008. Financial Markets, Institutions & Services. Ane Books Private Limited, New Delhi, India.
- Gupta, S. K., and Sadhu, A. N. 1995. Economic liberalization and rural credit. Kurukshetra. 43. (10): 28-35.
- Gurauswami, P. A. 1976. Study the factors affecting securing and repayment of agricultural credit from Canara Bank, Sarkar Somunkulan, Coimbatore. *Indian Journal of Agricultural Economics.* 18. (4): 411-415.
- Gurusamy, S. 2009, Indian Financial System (2<sup>nd</sup> edition). McGraw-Hill Education India Private Limited Noida, India: 520.
- Hajela, J. K. 1979. Problems of agricultural financing in Indian economy: an analysis. Indian Journal of Economics. 60. (23): 81-96.
- Hanumantharayappa, G. K. 1977. Small farmers' production credit requirements and repayment problems: a study in Doddaballapur Taluk, Bangalore District. University of Agricultural Sciences, Bangalore, India.
- Haque, T. and Maji, C. C. 1978. Structure and flows of agricultural co-operative credit in India. Indian Journal of Agricultural Economics. 33. (4): 72-78.
- Harshitha, G. S.; Mahajanashetti, S. B.; Vijayakumar, H. S.; Basavaraj, H. and Basavaraj, B. 2008. Management appraisal of district central co-operative bank - a case of DCC Bank, Shimoga, Karnataka. Karnataka Journal of Agricultural Sciences. 21. (3): 403-406.
- Hatai, L. D.; Singh, H. P.; Sen, C. and Dixit, R. S. 2006. Agricultural credit and Overdues in Uttar Pradesh: An Economic Analysis. *Financing Agriculture*. 38. (2): 17-19.

- Hate, M. V. 1977. Problems of financing agriculture: a study on India. Co-operative News Digest. 28, (12): 186-198.
- Hundie, B.; Belay, K. and Demeke, M. 2004. Factors influencing repayment of agricultural input loans in Ethiopia: the case of two regions. Savings and Development. Supplementary issue: 117-144.
- Huss, Bernard, 1924. People's Banks or Use and Value of Co-operative Credit. Mariannhill [Natal]: 82-83.
- Hussain, A. K. Z. 2006. Relative Performance of Service Co-operative Banks in Kerala. Co-operative Perspective. 41. (Annual issue): 65-70.
- Jain, H. C. 1983. Recovery performance of farm loans provided by the Central Bank of India in Jabalpur district, Madhya Pradesh. Financing Agriculture. 15. (3): 31-33.
- Jain, H. C. and Sarawgi, A. K. 1982. A comparative study into the impact of farm credit provided by the co-operative and commercial banks in tribal areas of Madhya Pradesh. *Co-operative Perspective*. 17. (1): 61-69.
- Jayasheela, B. and Birdar, R. R. 2000. Rural financing: A village study. Kurukshetra. 48. (6): 19-21.
- Jongur, A. A. U. 2008. The role of the Nigerian Agricultural and Co-operative Bank in the Development of Agricultural Extension Services in north-east zone of Nigeria. *Global Journal of Agricultural Sciences.* 7. (2): 115-118.
- Joseph, P. J. 1995. A study of the Agricultural and Rural Development Banks in Kerala with Special Reference to Funds Management. Ph. D. Thesis. Submitted to Cochin University of Science and Technology, (Unpublished).
- Joshi, D. P. 2002. Rural Credit. Yojana. 46 (1): 38-42.
- Joshi, M. K. 1979. Agricultural loans an appraisal of Lepayment performance. Financing Agriculture. 11. (1): 13-21.
- Joshi, N. C. 1997. Rural Credit and Development- a fresh look. Kurukshetra. 45, (11): 84.
- Kainth, G. S. 1979. Emerging pattern of co-operative credit in Punjab. Indian Journal of Economics. 59. (23): 451-458.
- Kainth, Cursharan Singh. 1998. India's rural co-operatives. Regency publication, New Delhi, India: 132-134.

- Kamath, C. E. 1978. Kamath working group on multi-agency approach to financing of agriculture. State Bank of India Monthly Review. 17. (9): 350-357.
- Kanchu, T. 2012. Performance evaluation of DCCBS in India a study. Asia Pacific Journal of Marketing & Management Review. 1, (2): 196-180.
- Kasar, D. V. and Patil, R. G. 1978. Institutional credit for agriculture: Problem and policy. Indian Journal of Agricultural Economics. 33, (4): 126-131.
- Kaushal, O. P. 1972. Proposed Channel of distribution of Loans for Rural Farmers. Indian Journal of Commerce. 21. (3): 85-86.
- Kharat, S. S. and Tripathi, B. N. 1979. The impact of crop loan on agricultural production by co-operative bank and nationalized bank in Rahuri Tuluka, Ahmednagar Distt. Maharashtra - a comparative study. Attahabad Farmer. 50, (4): 17-21.
- Khemani, C. L. 1981. Objectives of field visits in agricultural banking. Slate Bank of India Monthly Review. 20. (2): 85-88.
- Khemani, C. L. 1981<sup>2</sup>. Area approach in agricultural lending. State Bank of India Monthly Review. 20. (1): 32.
- Kim, Y. C. 1978. Factors affecting repayment performance on small farms: a South Korean case. Journal of Rurat Development. 1. (1): 80-95.
- Kota, S. K. and Sharma, V. 2001. Co-operative Credit-Revamping Needed. Yojana. July: 13-15.
- Krishi Vigyan Kendra Dimapur 2010. Demographic over View of Dimapur district. ICAR Research Complex, Jharnapani, Nagaland. http://kvkdimapur.nic.in/dimapur.htm [Accessed 15th February 2013].
- Kutwantsingh, Pathania and Singh, Yoginder. 1998. A study of the performance of the Himachal Pradesh co-operative banks. *Indian Co-operative Reviews*, 36 (2): 178-182.
- Kumar, G.; Khan, S. A. and Khireshu, V. R. 1989. Impact of institutional credit on income and employment- an economic evaluation of two farmers Service Society in Daksina Kannada District of Karnataka. Indian Co-operative Review. 26. (4): 43-51.
- Kumar, Rajiv. and Kaur, Jasmindeep. 2010. Financial Appraisal of Haryana State Co-operative Apex Bank. Advances In Management. 3. (12): 41-48.

- Kumar, S. and Singh, R. 2007. Impact of co-operative credit on the agriculture sector of Himachal Pradesh: a study of Mid Hill Zone. Co-operative Perspective. 42. (3): 10-13.
- Kumar, Sanjay and Dixit, R.S. 2008. Analysis of Factors Affecting the Credit Need of Tribal Farmers in India. Journal of Applied Sciences Research. 47, (2): 857-862.
- Kumar, Soni Anil. and Saluja, Dr. H. P. S. 2012. Role Of Co-operative Bank In Agricultural Credit: A Study Based On Chhattisgarh. Journal Of Research In Commerce & Management. 1. (10): 106-113.
- Kumar, Anjani.; Singh, K. M. and Sinha, Shradhajali. 2010. Institutional Credit to Agriculture Sector in India: Status, Performance and Determinants. Agricultural Economics Research Review. 23. (2): 15-23.
- Kumaran, M. and Vijayaragavan, K. 2005. Farmer's satisfaction of agricultural extension services in an irrigation command area. Indian Journal of Extension Education. 41. (3 & 4): 8-12.
- Lakshminarayana, S. K. and Adinarayana, S. 1990. An appraisal of repayment capacity and overdues of crop loans in Co-operatives and commercial bank in Kasimkota Panchayat Samiti of Visakapatnam district. Indian Cooperative Review. 27. (3): 298-302.
- Lalwani, M. R. 1984. Personnel Management of Credit Co-operatives. *Cooperator*. 2. (4): 8-9.
- Leeladhar, V. 2005. Taking banking services to the common man financial inclusion Commemorative lecture by Mr V Leeladhar, Deputy Governor of the Reserve Bank of India, at the Fedbank Hormis Memorial Foundation, Ernakulam, 2 December.
- Mehrotra, S. R. 1978. Potentialities of credit absorption and maximizing farm incomes in the arid region of Rajasthan. *Rajashau E conomic Journal*. 2. (1): 31-39.
- Memane, A. S. 2012. Performance of prim ary agriculture co-operative societies during 2000-01 to 2009-10 in India. International Interdisciplinary Research Journal. 2, (2): 253-261.
- Mishra, R. K. and Mishra, A. K. 2007. Institutional finance and farmers' indebtedness in Orissa: evidence from village study. Indian Co-operative Review. 44. (4): 281-285.

Misra, B. S. 2009. Performance of Credit Co-operatives. Research World. 6. 65-78.

- Misra, S. D. 1970. Institutional credit pattern: A case study in Kashi Vidyapith. Block of Varanasi District, U. P. Kurukshetra. 18. (4): 1-5.
- Mohan, R. 2006. Agriculture credit in India: status, issues and future agenda, Financing Agriculture. April-May: 3-16.
- Mohanty, Suchitra and Haque, T. 2003. Regional disparities in the flow of institutional credit in India. *Journal of Rural Development* (Hyderabad). 22. (1): 79-90.
- Moniruzzaman, Md. 2002. Loan utilisation pattern of Bangladesh Rural Development Board (BRDB) women co-operatives and Grameen Bank (GB) groups: a comparative analysis. *Journal of Rural Development* (Hyderabad). 21. (1): 67-83.
- Moorti, T. V.; Vashit, G.D. and Parmar, Urmil. 1988. Utilisation of Overdues of Cooperative Loans in Himachal Pradesh. Indian Co-operative Review. 26. (1): 34-38.
- Muley, S. S. 2007. Role of Co-operative Banks in Rural Credit. Co-operative Perspective. 42. (1 & 2): 31-40.
- Murthy, K. G. K. 1982. Financing Agriculture Problems and prospects. Commerce. 145, (37): 12-15.
- Muthupandian, K. 1995. A case study of Tirunelveli District Central Co-operative Bank. Indian Co-operative Review. 32. (4); 32-45.
- NAFSCOB. 2012. Performance Of Primary Agricultural Credit Societies (01 April 2010 to 31 March 2011): 5.
- Naidu, I. J. 1977. Institutional credit facilities. Kurukshetra. 26. (1): 18-20.
- Naidu, M. R and Prasad, J. V. S. 1987. Utilisation Pattern and Productivity of Cooperative Production Credit. Indian Co-operative Review. 25. (1): 17-22.
- Narayan, B. 1974. Management of Credit & Farmers Behaviour. Indian Journal of Commerce. 30, (3): 83-89.
- Natarajan, P. 2007. PACS in Kerala in search of profitability. Indian Co-operative Review. 44. (3): 234-244.
- Nicholson, F. 1983. Rural Indebtedness. In: A study of rural economics, Desai, V. Himalaya Publishing House, Bombay-4: 375-76.

- Ohha, P. D. 1989. Co-operative Sector: Some critical issues. Reserve Bank of India Bulletin. 43. (2): 175-180.
- Pancras, V. 1978. Fund Management in Co-operative Banks. Indian Co-operative Review. 15. (4): 23-27.
- Pandey, R. K. and Kumar, A. 1989. Economic evaluation of Co-operative credit in Indian Agriculture. *Financing Agriculture* 21. (1): 22-26.
- Pandey, R. N.; Aggarwal, K. and Gangwar, A. C. 1990. An analysis of repayment performance of farmers regarding agricultural loans in Kurukshetra district (Harvana). Indian Co-operative Review. 27. (1): 50-54.
- Pandey, U. K. and Muralidharan, M.A. 1977. Socio-economic factors influencing the overdues in co-operative credit societies. *Indian Co-operative Review*. 15. (2): 15-18.
- Paramasivan, C. 2008. Lending and repayment performance of primary agriculture co-operative banks. Co-operative Perspective. 42. (4): 20-25.
- Paranjothi, T. and Ravichandran, K. 2009. Co-operatives at grass-root level and eleventh five year plan approach: an overview. Indian Co-operative Review. 47. (1): 20-38.
- Patel, A. R. 1974. Problems of rural credit. Kuruksheira. 23. (4): 4-9.
- Patel, A. R. 1995. Bank approach to rural development policy prescription. Kurukshetra. 43. (10): 15-18.
- Patel, A. R. 1997. Rural Banking: Performance and challenges. *Kurukshetra*. 65, (12): 44-49.
- Pathania, K and Verma, Y. 1991. Impact of size of Loan and Types of Farmers on Co-operative Credit Utilisation. Indian Co-operative Review. 29, (2): 149-152.
- Pathania, K. and Verma, Y. 1992. Impact of size of family income and value of farm assets on Co-operative Credit Utilisation. Indian Co-operative Review. 30, (1): 42-47.
- Patil, B. V. 2005. Rural banking problems of localised banking institutions. Economic and Political Weekly. 40. (12): 1224-1228.
- Patil, R. H.; Patel, G. N.; Desai, M. M. and Patil, R. M. 1987. A study of utilization of farm credit. Indian Co-operative Review. 25, (1): 90-93.

- Patnaik, U. C. and Misra, R. N. 1991. Management of change in rural credit recovery practices. National Bank News Review. 28-34.
- Paul, James. 1987. A Study of the Operational Efficiency of Ernakulam District Co-operative Bank. Project work submitted to Kerala Agricultural University. (Unpublished).
- Prasad, A. 2006<sup>2</sup>. Primary Agricultural Co-operative Societies in India: Problems and Remedies. The Maharashtra Co-operative Quarterly, 92. (5): 6-7.
- Prasad, Bhagavati. 2006<sup>1,</sup> Co-operative banking in competitive business environment. *Co-operative Perspective*, **40**, (4): 1-8.
- Puhazhendhi, V. and Balakrishan, V. 1981. Pattern of flow of credit in Hill Farms of Tamil Nadu. *Financing Agriculture*. **13**. (2): 5-10.
- Puhazhendhi, V. and Jayaraman, B. 1999. Rural credit delivery: performances and challenges before Banks. *Economic and Political Weekly*. 34. (3 & 4): 175.
- Pujari, A. A.; Suhag, K. S.; Malik, D. P. and Kundu, K. K. 2008. Credit utilization, advancement and overdues of Primary Agricultural Co-operative Societies in Karnataka state. *Haryana Journal of Agronomy*. 24, (1 & 2): 42-46.
- Radhakrishnan, N. 2006. Co-operative credit for agricultural sector. Co-operative credit for agricultural sector. *Ph. D. thesis* (unpublished) submitted to the University of Madras.
- Rai, S. N.; Ram, S.; Behari, V. and Singh, R. I. 1975. Role of institutional credit in getting farm income (A case study in Kalyanpur Block, Kanpur District). Indian Journal of Agricultural Economics. 30. (3): 269-273.
- Rajeev, M. and Deb. S. 1998. Institutional and Non-Institutional Credit in Agriculture: Case Study of Hooghli District in West Bengal. Economics and Political Weekly. 33. (47): 2997-3002.
- Rajput, S.S. and Singh, J. V. 1977. Financing agriculture in Agra District. Rural India. 40 (7 & 8): 300-302.
- Ram, Sri.; Singh, R. t. and Prasad, V. 1978. Role of Commercial Bank in Generation of Income and Saving on farms. Indian Journal of Agricultural Economics. 23, (4): 147-152.

- Ramakrishnappa, V. and Jagannath Rao, R. 2006. Emerging microfinance issues in dairy development: A case study from Karnataka, India. International Journal of Agricultural Resource, Governance and Ecology. 5. (4): 399-412.
- Rambabu 1991. Repayment Pattern of Agricultural Credit. A study of Andhra Bank in Guntur district, A. P. Indian Co-operative Review. **29**, (2): 152-159.
- Rao, B. S. and Acharyulu, D. V. S. N. 1982. Whither Institutional finance: A study in Ngullanka Village of Razole Taluk in East Godavari District, A. P. Kurukshetra. 30, (23): 1-3.
- Rao, B.S. and Rao, C. S. 1983. Isn't Institutional credit a costly affair. Kurukshetra. 31. (16): 1-8.
- Rao, Narayan. 1974. Managerial Problems of Agricultural Co-operatives. Indian Journal of Commerce. 28. (98): 69-73.
- Ravichandran, K. and Alkhathlan, K. 2009. Financial Inclusion A Path towards India's Future Economic Growth. http://ssrn.com/abstract=1353125 [Accessed 25<sup>th</sup> October 2011].
- Ray, S. K. 2008. Availability of Institutional Credit, Change in Cropping Pattern and Agricultural Growth in West Bengal: A District Level Analysis. Indian Journal of Regional Science. 40, (1): 34-42.
- Reddy, A. 2010. Rural Banking Strategies for Inclusive Growth. http://ssrn.com/abstract=1532226 [Accessed 25th October 2011].
- Reddy, D. O. and Reddy, M. 1990. Socio-Economic Factors Influencing Default in Repayment of Co-operative Credit. Indian Co-operative Review. 26. (4): 23-28.
- Reddy, G. P.; Venkataram, J. V. and Nagaraja, G. N. 1989. An optimum resource use pattern and credit requirement for the beneficiaries of Upper Krishna Project command area of Karnataka. *Financing Agriculture*. 21. (4): 22.

Reddy, K. V. 1981. Supervised credit for Rural Development. Kurukshetra. 30 (4): 6.

- Reddy, M. J. M. 1999. Role of financial institutions in agriculture credit. Fertiliser Murketing News. 30, (8): 1-19.
- Reddy, P. Indra Sena. 1994. Financial Performance of Co-operative Banks- A Case Study. Agricultural Banker. 18. (2): 17-26.

Reddy. 1982. Rural Credit, Kurukshetra. 30. (8): 17-21.

- Reserve Bank of India. 2012. Developments in Co-operative Banking. Report on Trend and Progress of Banking in India 2011-12: 94.
- Roshan, B. and Singh, Roshan. 1980. Impact of bank finance on cropping pattern and farm income. *Financing Agriculture*. **12.** (1): 3-5.
- Roy, M. K. and Syed, S. I. 2004. Public sector micro credit programmes in Bangladesh: an analysis. *Journal of Rural Development-and-Administration*. 35. (1 & 4): 40-58.
- Roye, S. K. 1972. Study the agricultural credit movement in Assam in retrospect. Eastern Co-operative Front. (Special issue): 20-26.
- Sabarathanam, V. E. 1988. Manuals of Field Experience Training for ARS Scierntists. NAARM, Hyderabad.
- Sakthivel and Aranganathan, T. 2009. Service Marketing in Co-operative Banks: Need for Global Competitiveness. Tami Nadu Journal of Co-operation. January: 60-61.
- Samal, B. 2002. Institutional credit flow to West Bengal agriculture: revisited. Indian Journal of Agricultural Economics. 57. (3): 546-559.
- Sanderatne, N. 1978. An analytical approach to small farmer loan defaults. Savings and Development. 2. (4): 290-304.
- Sapkal, S. B.; Kumbhar, J. S. and Shinde, H. R. 2010. Borrowing and utilization pattern of co-operative credit in Satara district of Maharashtra. *Co-operative* Sugar. 42. (4): 45-49.
- Sarkale, R. N.; Sananse, S. L.; Patil, L. P. and Nalawade, A. S. 2010. Role of Satara. District Central Co-operative Bank in agriculture and rural development. *International Journal of Commerce and Business Managaement*, 2, (2): 156-160.
- Sarkar, S. C. 1974. Overdues of Co-operative Financial institutions. Journal of Indian Institute of Bankers, 45, (3): 63-68.
- Sarma, A. K. and Goswami, P. C. 1981. Rural indebtedness in Assam: A case study of Barringog Banbhag Development Block, Ghagrapar, Kamrup District of Assam. Financing Agriculture. 13. (2): 1-3.
- Satyasai, K. J. S. 1988. Flow of Institutional credit to agriculture in Deltaic Region: A case study of West Godavari District, A. P. Indian Journal of Agricultural Economics. 43. (3): 398.

- Satyasai, R. and Badatyer, H. 2000. Restructuring Rural Credit Co-operative Institutions. Economic and Political Weekly. 35. (5): 307-330.
- Saudamani, N. 1979. Regional Rural Banks Rajasthan experience. Eastern Economics. 72. (24): 128-131.
- Sawant, G. K. 1978. Borrowing behaviour of farmers in relation to their personal characteristics. Journal of Maluarashtra Agricultural Universities, 3, (1): 54-56.
- Saxena, A. K. 1983. Practice & Problems of DCCBs in UP. Indian Co-operative Review. 10. (2): 13-17.
- Seilan, A. 2006. Primary agricultural credit societies: the bank of the rural masses. Tamil Nadu Journal of Cooperation. 7. (1): 25-28.
- Selvi, Darling. 2009. Lending to Agriculture Scenario of Co-operative Banks in Kanyakumari District. Tamil Nadu Journal of Co-operation. April: 52-53.
- Sen, P. K. 2004. Co-operative credit sector in India: a crisis of confidence and tasks ahead. Co-operative Perspective. 39, (1): 21-22.
- Shah, C. H. 1978. Small farmers: policy and problems. Economic and Political Weekly 13, (42): 1771-1775.
- Shah, V. M. 1986. Planning, Research and Development in Co-operative Banks. The Tamil Nadu Journal of Cooperation. 77. (3): 11-16.
- Shankarish, A. and Rao, Madhusudan. P. 1983. Operational Problems of DCCBs. Indian Co-operative Review. 2, (10): 17-21.
- Sharad, N. Bansal, and Thakkar, Girish. 2012. Rural Credit Co-operatives in India: Responses to Reforms. *Journal of Business Management and Research*. 2. (1): 26-38.
- Sharma, A. K. and Goswami, P. C. 1983. Rural indebtedness in Assam- A case study of Barrigog Borbhag development Block Ghagrapar, Kamrup district of Assam, *Financing Agriculture*. 12. (2): 3-9.
- Sharma, N. K. 1985. Central Co-operative Banks and Short Term Agricultural Credit (A case study of Rajastan). *The Co-operator.* 22. (23): 1-6.
- Sharma, R. K.; Upta, Sonika. and Bala, B. 2007. Access to credit- a study of hill farms in 'Himachal Pradesh. *Journal of Rural Development* (Hyderabad). 26. (4): 483-501.

- Shekar, E. C.; Rao, G. V. K. and Narender, I. 1999. Impact of co-operative credit on farm income and employment in Karimnagar District of Andhra Pradesh. Journal of Research ANGRAU. 27. (4): 92-95.
- Shukla, A. N.; Tewari, S. K. and Dubey, P. P. 2010. Agricultural credit recovery performance of scheduled commercial banks. Agricultural Science Digest. 30. (2): 85-89.
- Singh, A. J. and Dhawan, K. C. 1978. Source, utilisation and productivity of agricultural credit in Ludhiana district of Punjab. Indian Journal of Agricultural Economics. 33. (4): 159-164.
- Sing, h. A. J. and Dhawan, K. C. 1979. Sources, utilization and productivity of agricultural credit in Ludhiana District of the Punjab State. Agricultural Situation in India. 34. (8): 529-534.
- Singh, D. P. and Kumar, Anil. 2003. Institutional credit gap in agriculture a case study of Bikaner District. Agricultural Economics Research Review. 16. (2): 126-134.
- Singh, G. 1995. Agricultural finance in the context of technology led development of Agriculture. Indian Journal of Agricultural Economics. 50. (1): 34.
- Singh, G. and Sukhmani, A. 2012. An analytical study of productivity and profitability of district central co-operative banks in Punjab. *Journal on Banking Financial Services & Insurance Research.* **1**. (3): **128**-142.
- Singh, Kamaljit. and Sandhu, H. K. 1980. An economic analysis of overdues in Kapurthala district. *Financing Agriculture*. **12**. (1): 12-14.
- Singh, R.and Jain, V. K. 1985. Rural banking and its challenges. Yojana. 29. (13): 6-8.
- Singh, R. I.; Prasad, V.; Prakash, B. and Singh, R. K. 1974. Borrowing behaviour of small farmers in S.F.D.A. Project, Fathehpur, U. P. Indian Journal of Agricultural Economics. 30, (3): 271-274.
- Singh, R. P. 1988. Disbursement, overdues and factors affecting repayment capacity of borrowers. Indian Journal of Agricultural Economics. 63: 433-437.
- Singh, Roshan; Singh, A. K. and Singh, Balister. 1978. Flow of Institutional Credit in Agriculture (with special reference to commercial bank finance). Indian Journal of Agricultural Economics. 33. (2): 156-157.

- Singh, S. K. and Ramanna, R. 1981. The role of credit and technology in increasing income and employment on small and large farms in Western Region of Hyderabad, Andhra Pradesh. *Indian Journal of Agricultural Economics.* 36. (3): 41.
- Singh, S. K.; Singh, R. I. and Singh, G. N. 1989. Impact of Rural Co-operatives Credit on Agricultural Development in Eastern U. P. Indian Co-operative Review. 27. (2): 198-210.
- Singh, Satendra Pal.; Singh, Balishter. and Jain, A. K. 1990. An Analysis of Factors Affecting Overdues of Agricultural Loans - A study of Agra District of Uttar Pradesh. Indian Co-operative Review, 27. (3): 32-45.
- Singh, Sukhdev.; Kaur, Maninder. and Gill, S.S. 2001. Performance of agricultural co-operative service societies in Punjab: an appraisal. *Indian Co-operative Review.* 38, (4): 243-254.
- Singha, Komol. 2010. Rural Development in India: Retrospect and Prospects. Concept Publishing Company Private Limited, New Delhi, India: 117.
- Singhal, A. K. and Singhal, L. K. 1984. Rural Banking problems and prospects. Kurukshetra. 32, (9): 16-18.
- Sinha, A. K. and Broadway, A. C. 1979. Institutional financing of agriculture with special reference to rural bank in Pippiri block District Uri (Orissa). *Atlatabad Farmer.* **50**. (4): 337-340.
- Statistical Handbook of Nagaland, 2011. Directorate of economics and statistics, Government of Nagaland.
- Subburaj, B.; Lopoyetum, S. K. and Selvam, K. G. 2003. An insight on the major operational and technical problems impinging on the growth of Primary Agricultural Co-operative Banks (PACBs) - an application of TWOS matrix analysis to formulate strategies. *Indian Co-operative Review*. **40**. (3): 203-215.
- Subharao, K. 1990. Institutional credit uncertainity and adoption of HYV technology. A Comparison of East Uttar Pradesh and West Uttar Pradesh. Indian Journal of Agricultural Economics. 35. (1): 69.
- Subramanian, S. R.; Ramamoorty, K. and Varadarajar, S. 1971. Credit needs and availability to farmers. *Indian journal of Agricultural Economics.* 26 (4): 553-558.
- Sujatha, V. 2007. Financial performance of the Krishna Co-operative Central Bank Ltd. Indian Co-operative Review. 45. (1): 9-24.

- Suryanarayana, P. and Chiranjeevulu, P. 1985. A study of utilization of farm credit. Indian Co-operative Review. 22. (4): 419-425.
- Tamuli, R 2005. Development of co-operative societies in Arunachal Pradesh. Indian Co-operative Review. 42. (3): 219-224.
- Thamilarasan, S. 2009. Impact of institutional credit on the employment, income, occupation and assets of the farmer borrowers: a case study. *Indian Co-operative Review.* **47.** (1): 12-19.
- Thanarathnam, J. J. 2006. Working of Primary Agriculture Co-operative Bank: A Case study. Southern Economist. 45, (9): 29-34.
- Tiwary, S. N. 2001. HRD priorities for co-operatives; need for re-evaluation. Indian Co-operative Review. 39. (1): 62-69.
- Tucker, S. K. 1993. Role of Education and Human Resource Development in Improving Productivity in Co-operatives. Co-operative Perspective. 22. (23): 11-14.
- Vaibhav. 2012. Understanding the Concept and Process of Microfinance. http://www.smallenterpriseindia.com/index.php?option=com\_content& view=article&id=995:understanding-the-concept-and-process-ofmicrofinance&catid= 82: featureone [Accessed 12th December 2012].
- Vaidya, M. K. 1991. Impact of Gramin Bank financing on agricultural development in District Mandi (H. P). Indian Co-operative Review. 29, (2): 136-139.
- Vaikuntha, L. D. 1988. Recovery of loans A study of District Co-operative Bank, Dharward. Indian Co-operative Review. 26. (1): 26-33.
- Vaikunthe, L. D. 1991. Agricultural Co-operative credit- Utilisation and Recovery Performance. *Indian Co-operative-Review*. 29. (1): 39-46.
- Varma, M. 1985. Central Co-operative Banks and Short-term Agricultural Credit. The Co-operator. 22, (23): 23-26.
- Varma, S. Rand Reddy, B. B. 2000. Analysis of the causes for overdues in Cooperatives under SWCCDS. Co-operative Perspective. 35, (1): 4-10.
- Venkitesan, S. 1984. The Performance of Co-operative Banks in Kerala A study on the Operational Efficiency of Primary Agricultural Credit Societies. Ph. D. Thesis submitted to Kerala University (unpublished).

- Vivek Bansal.; Suhag, K. S. and Hasija, R. C. 2003. Overdues of agricultural credit in Primary Agricultural Credit Societies (PACS) of Punjab. Environment and Ecology. 21. (1): 207- 209.
- Wali, M. M. K. 1980. How credit co-operatives fail to reach the rural poor. Kurukshetra. 28. (18): 4-7.
- Winfred, John. 1986. Funds Management Central Co-operative Banks. Tamil Nadu Journal of Co-operation. 77. (8): 41-47.
- Yerramraju, B. 2004. Revisiting the lending infrastructure and changing the mindset-critical to farm lendings. National Bank News Review, Mumbai. 20. (2 & 3): 43-52.
- Zeratsion, Fessha. 2002. Performance Analysis of Primary Agricultural Credit Societies in Karnataka. *M. Sc. (Agri.) Thesis.* University of Agricultural Science, Bangalore.

# APPENDIX

# **APPENDIX - I**

# SURVEY SCHEDULE

Name of the	:	
respondent		
Туре	:	BORROWER/ NON-BORROWER

Date :

Resp : No

#### Father's Name :

#### 1. DEMOGRAPHIC FEATURE.S

#### 1.1 DEMOGRAPHY

SN	Name		Educ	ation				nary pation		Se	conda	ary ion	W	ork fo	rce
		II.	Pr	115	G	Ag	Se	Bai	OL	Ag	Se	Bu	Wr	EI)	D
1				1											
2															
3															
4															
5															
6															
7															
8															
9															

II- Illiterate: Pr- Primary, HS- High School; G- Graduate & above; Ag- Agriculture: Se- Service; Bu- Business: Ot- Others

W- Worker; HI- Helper; D- Dependent

#### **1.2. OPERATIONAL LAND HOLDINGS**

Owned Land	Leased out	Leased in	TotalLand

#### 1.3. LAND USE PATTERN (Sq. Ft)/ Land Inventories

Land Use	Area	Land Use	Area
Settled land		Livestock area	
Paddy		Forest & Plantation area	
Vegetables		Barren Land	
Fisheries		Others	
		Total	

2. CROPPING

# 2.1 CROPPING PATTERN AND VIELD

	(in)	Arca (in Sq. Ft)	Yield (in kg)	ld (g)	Consum	Consumed Value (in Rs.)	Sold o (in	Sold out value (in Rs.)
Types Crops	Presently	Before Loan	Presently	Before Loan	Presently	Beforc Logn	Presently	Before loan
(a) Rabi (winter) oct/dec - apr/jun								
(b) Karif (sumner) apr/may - sep/oct								
(c) Zaid						-		

#### 2.2. COST OF CROPPING PER ANNUM

£.24	COST OF CROTTING FER AN	(in Rs.)
I.	Human Labour	- har an man
	a) Owned	New York Far With Har Y
	b) Hired	
2.	Seed/ Seedling	
3.	Chemicals	
4.	Equipment	
5.	Builock/ Machinery	
6.	Transportation	
7.	Marketing	
8.	Other	
	Total	

#### 3. ANIMAL HUSBANDRY

## 3.1. ANIMALS INVENTORIES

	Animals	Nos.	reared	Value	(in Rs)
	Annaars	Presently	Before ban	Presently	Before loan
1,	Cattle				
2.	Poultry				
3.	Piggery				
4.	Goat				
5.	Others				

#### 3.2. COST OF ANIMAL PRODUCTION PER ANNUM

SN	ltems	Cattle	Poultry	Piggery	Goat	Others
1.	Labour Input					
2.	Animal cost					
3.	Chemical					
4.	Equipment					
5.	Transportation					
6,	Marketing					
7.	Other					
	Total					

#### 3.3. RETURN FROM ANIMAL HUSBANDRY

SN	ltems	C	attle	Po	ultry	Pig	gery'	G	ioat	O	hers
PIC	Sold	Nos	Value								
1.	Young stock										
2.	Ma ture stock										
3.	Eggs										
4	Milk										
5,	Manure/ Dung's										
6.	Other			-							
7.											
	Total						1				

#### 4 FISHERY

#### 4.1. COST OF FISH PRODUCTION PER ANNUM

		(in Rs.)
I.	Human Labour	
	a) Owned	
	b) Hired	
2	Fingerlings/ Seedling	
3.	Chemicals	
4.	Feeds	
5.	Transportation	
6.	Marketing	
7.	Other	
	Total	

#### 4.2. RETURN FROM FISHERY

Items	Yi	eld	Consume	ed Value	Sold out	Value
	Kg	Rs.	Kg	Rs.	Kg	Rs.
l <sub>+</sub> Fish						
2. Fingerlings						

#### 5 PLANTATION

#### 5.1 COST OF PLANTATION CROPS PER ANNUM

		(in Rs.)
1.	Human Labour	
	a) Owned	
	b) Hired	
2.	Planting materials	
3,	Chemicals	
4	Transportation	
5.	Marketing	
6.	Other	
	Total	

#### 5.2. RETURN FROM PLANTATION

SN	liems	Home Consumption (in Rs.)	Sold (in Rs.)
1.	Timber		
2.	Firewood		
3,	Fruit crops		
4.	Seedlings		
5,	Others		
6.			

#### 6. TOTAL EXPENDITURE PER ANNUM

SN	ltems	Amount(in Rs.)
1.	Total Farm Expenditure (A) Cropping (B) Animal Husbandry (C) Fish Production (D) Planation (E) Others	
2.	Household needs	
3.	Education	
4,	Transportation	
5.	Others	
6.	Total	
7.		
	Total	

#### 7. TOTAL INCOME PER ANNUM

SN	ltems	Amount (in Rs.)
l.	Cropping	
2.	Animal Husbandry	
3.	Fish Production	
4.	Plantation	
5.	Service	
6.	Business	
7.	Others	
	Total	

#### **8. EMPLOYMENT GENERATED UNDER DIFFERENT CATEGORY**

Category		Employment (in nos.)		Working		
		Presently	Before loan	Presently	Before loan	
1.	Crop production					
2.	Animal Husbandry					
3.	Fishery					
4.	Forest & Ptantation					
5.	Others					
6.						
	Total					

# 9. MAGNITUDE: OF FINANCIAL ASSISTANCE FROM CO-OPERATIVE BANK

Scheme Name	Amount	As Loan	As Subsidy	Mode of financing	Remarks

# 10. LOAN BORROWED FROM OTHER SOURCES (OTHER THAN COOPERATIVE BANK)

SN	Amount	From	Purpose	Interest	Repayment period	Securities
	4					
_		-				
_				-		
-						
		. E.				

#### 11. REPAYMENT PERFORMANCE OF THE BORROWERS

Amount Borrowed	Inferest. rate	Interest Amount	Amount to be napaid	Amouni pai d	Balance	Mode of payment	Remarks

#### 12. UTILIZATION OF LOAN

Purpose of the Loan:

SN	Activities	Απουπ	Remarks
L	Agricultural		
2.	Cattle		
3.	Poultry		
4,	Piggery		
5.	Goatry		
6.	Fishery		
7.	Plantation		
8.	Household Needs		
9.	Education		
10,	Others		
	TOTAL		

#### 13. PROBLEMS IN UTILIZATION OF BANK LOAN

	Problems	Yes	No
I.	Amount		
2.	Disbursement of loan		
3.	Time of disbursement	1 1 2	
4.	Others Need		

# 15. PROBLEMS FACED IN ACQUIRING BANK LOAN

1.       Knowledge about type of loan	SI	Problems	Yes	No	Remarks
3.     Form issued by the bank       4.     Filling up of forms       5.     Guidance from bank       6.     Bank process       7.     Guarantor/ Securities/ Certificates	۱.	Knowledge about type of loan			
4.     Filling up of forms       5.     Guidance from bank       6.     Bank process       7.     Guarantor/ Securities/ Certificates	2.	Knowledge about type of Banks			
5.     Guidance from bank       6.     Bank process       7.     Guarantor/ Securities/ Certificates	3.	Form issued by the bank			
6.     Bank process       7.     Guarantor/ Securities/ Certificates	4.	Filling up of forms			
7. Guarantor/ Securities/ Certificates	5.	Guidance from bank			
	6.	Bank process			
8 Others	7.	Guarantor/ Securities/ Certificates			
o, ouns	8.	Others			

#### 16. PROBLEMS FACED BY LOANERS

SI	Problems	Yes	No	Remarks
Ι.	Amount			
2,	Disbursement of loan			
3.	Time of disbursement			
4.	High Interest rates			
5.	Repayment period	-		
6.	Supervision			
7.	Knowledge & Skill			
8.	Insects pest & diseases			
9.	Funds & capital			
10,	Marketing			
11.	Transportation			
12.	Others			

# (FOR BANK OFFICIALS)

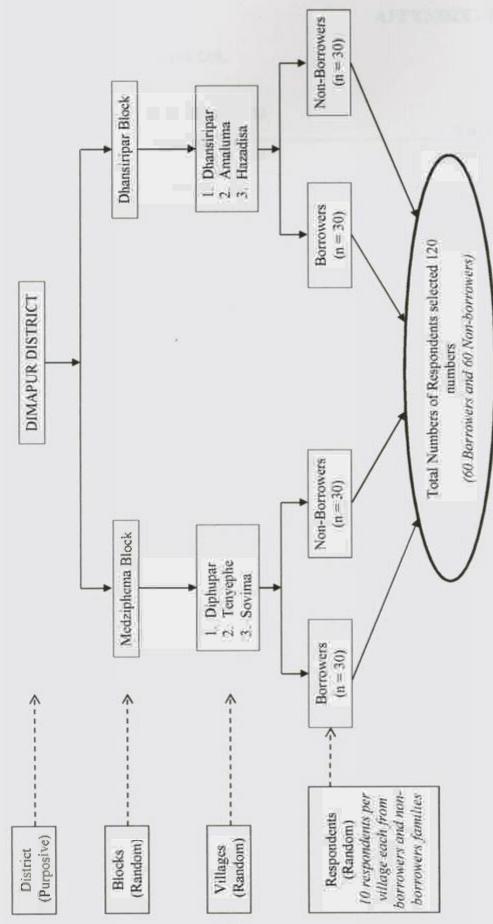
# **1. TERMS AND CONDITIONS**

Invitation of application			
Loan and subsidy amount		2	
Rate of interest			
Securities	10.3.9.11		
Repayment period			
		4	

# 2. PROBLEMS FACED BY THE BANKERS

# **3. SUGGESTIONS**

1	
0	
2	
S	
H	
OF	
ND	
ESI	
9	
NG	
PCI	
M	
S	



A10

**APPENDIX - II** 

#### **APPENDIX - III**

#### Nagaland State Co-operative Bank Ltd. Dimapur: Nagaland

#### BUDGET AT A GLANCE as on 31 March 2013

(? in Lakh) Revised Estimated SN Head of Account 2007-08 2008-09 2010-11 2011-12 2012-13 2013-14 2006-07 6544.55 3888.94 5690.80 2802.43 4816.79 1 Income 1548.05 2398.50 5264.57 5880.84 2742 42 3827.38 4729.32 2 Expenditure 1912.01 2373.54 663.71 3 Net Working Result -363.96 60.01 6156 8747 426.23 24.96 9825600 Target of Deposits 22597.40 2310.50 36683.45 85449.00 4 16218.45 18726.34 18726.34 2310.50 36683.45 42172.00 48491.00 (a) Normal 1621845 22597/10 (b) Ambitious 0.00 000 0.00 0.00 000 43277.00 4976500 5406.34 5919.28 633980 8232.37 13209.04 15185.00 17132.00 5 Fresh Lending Fresh Borrowing 131 31 89.66 74.39 1013.82 1027.98 1269.13 136913 6 Target of Loan 7 335193 3698.84 422000 4720.00 635.08 230725 308775 Recovery Other Capital 3062.89 329008 3549.49 3760.00 4000.00 8 3008.72 3117.48 Recepts Other Capital 39715 9 93.41 9E.37 325.69 164.85 213.27 49705 Exac-inditure Investment in 2422186 30000.00 35000.00 Approved Securities 9946.42 10920.74 14:025.51 23568.54 10 &Others

# APPENDIX - IV

# Nagaland State Co-operative Bank Ltd. Dimapur: Nagaland

# HUMAN RESOURCE DEVELOPMENT as on 31 March 2013

SN	Particulars	2006-07	2007-08	2008-09	2009-10	2010-11	201 1-12
1	Resigned	0	0	1	0	2	1
	(a)Officers	0	0	0	0	0	0
	(b)Others	0	0	1	0	2	1
2	Superannuated	3	1	0	0	3	4
	(a) Officers	2	1	0	0	2	3
	(b)Others	1	0	0	0	I	1
3	Availed VRS	8	8	2	4	0	1
	(a) Officers	3	ī	1	3	0	0
	(b)Others	5	7	1	ī	0	1
4	Terminated	1	2	0	Ð	0	0
	(a)Officers	0	0	0	0	0	0
	(h)Others	1	2	0	0	0	0
5	UnderCRS	0	0	0	0	0	0
	(a)Officers	0	0	0	0	0	0
	(b)Others	0	0	0	0	0	0
6	Expired	1	0	1	2	1	2
	(a)Officers	0	0	0	1	0	1
	(b) Others	1	0	1	1	1	1
7	Total Strength as on 31-3-11	222	229	230	230	224	2.32
	(a) Officers	44	54	71	67	75	82
	(b)Others	178	175	159	163	149	150
8	Of which cadre on deputation to JCDP	2	0	0	0	4	4
	(a)Officers	1	0	0	0	2	2
	(b) Others	1	0	0	0	2	2
9	Employee Recruited	3	18	S	6	0	0
	(a) Officers	0	3	0	0	0	0
	(b)Others	3	15	5	6	0	0
10	Staff undergoing Training	31	27	40	85	50	59
	(a) Officers	17	12	25	36	31	44
	(b)Others	14	15	15	49	19	15

## APPENDIX-V

# Nagaland State Co-operative Bank Ltd. Dimapur: Nagaland

# BALANCE SHEET as on 31 March 2012

FREVIOUS YEARASON 31032011	AMOUNT (Rs)	CAPITAL AND LIABILITIES		AMOUNT (IIs)	CU RRENT YEARAS ON 31.43.2012
AND A CARLEY		1. CAPITA Iz			
		i) Authorized Capital	Sec.		1.
90000000000		1,00,000 "A"Cla es shares o ( Rs. 5000/ -ca ch			9000000000
9300000000		9.50 ,000 B' Ches share of Rs. 1000/ -such			\$50000000.0
150000000.00		3,00 000°C°C is as sharesof Ra. 500/-cash(Nominal)			150000000
0000000000000				3	22000000000000
and a state of the		in Interibud Carlin I			
		14,485' A'ch te that anof R = \$000/ -one h			
		25115'B' cinerah ar caof Rs. 1000/-6 sch			
		71096 'C' classish statof R s. 500/ -es ch			
		Ill Amonutes lledensyn id up on			
		53,585 shares of Ra 5000/-eachings of hungard			
		atRa0 25 machon 36,000 shates.			
		26,534 share set Rs. 1000/ -a sublission in unpaid			
		alkaD.06esshon 1000 shatet			
		1,11,138 abar a sofRa 500/-cashie as calls uspand			
		stRe0.66 cachos 1000 shares			
		Of (iii)a bove held by>			
		n) Individuals			
	2 51148 40.00	b) Co-oper sitve lastingtings -1571 Socializes		26533 940.00	
	267 921000.08	a) Sinte Covernment		272 421000.00	
	355 47 5 39 00	d) Others (Nom mal Mambers )		51568939.00	
329868 379,88	425000-00	e) Share Cagel Daposi			354948879.00
******* 1 * 3/9 m	DO SOACEN			425000.00	3347468/7.94
		2.RESERVE FUND AND OTHER RESERVES			
5506 916 .78		i) Statutory Reserve		550691628	
6274656.00		a) Agricult um CraditS tabilitat ion Fond		646289600	
973484386		iii) Building Fund		1107164246	
16 9829 91		iv)D ividend Equiples timeF and		1.696299(	
1018013.60		v)SpecialBed()ebbsReter ve		10(0013.60	
1146343206		vi) Badand DoubtfulD, bis Ra serve		h663432.06	
1220048 90		will are stiment Depresenting Reserve		12200 4890	
110231794134					
		viii) Provision for NPA a		134831294.34	
\$165017.24		in) Provision for 1 stor -Branch A dju also ent		5865087.24	
98367050.10		*)Provision for O the cansols		8733146273	
1619862174		Ti)Other Fundas adR eserves (tobe specified)		1615768474	
	28773891	s)ShareCental Re demptosF and	267738.01		
	22763400	b)SMFDA Rick Fand	227634 00		
	8665249.59	e)Coursi Reas rvs Fred	240 5195 59		
	3941.25	OAgriculture Role(F and	394125		
	500000.00				
		g) Ravolvin gF and	50000000		
	2000000.00	b) Raha hilitationFund	2:0000000		
	236174.77	i) Rova on of PayFand	23617477		
	4591.32	DV olutta ry Retiransent Fend	4591.37		
	31.4515.24	k) Propose & D widend	31448574		
	119028-65	DCo-ops a live D a velopment F and	11902865		
	924778.36	mi StaffWelfareFued	100049536		
386550294.54	2915000.00	n)Provision for Qratisity	5058000.00	the second	283298889,16
		3 PRINCIPAL/SUBSID IN BY STATE			
		PARTNERSHIP FUND ACCOUNT:			<u></u>
		For share as pitalof			
		i) CantialCo-opelative Banks			
		<ul> <li>Primary agric ultural or edit sociation</li> <li>iii) O therse cintura</li> </ul>		1.5	
		4 DEPOSITS AND OTHER ACCOUNTS:			
11.011.0.000		<b>AFIXEDDEPOSITS</b>	10000	All the second second	
1147141663.61	13.6.6645864 61		56490264.11	12 5977 346411	
	-	b)Cr mira IC o-operative Banks			
	282700.00	a) O ther 5 ocid till a	1282 700 00		and the second second
		Balance Carried Over			

PREVIOUS YEARABON	ANGLAST	FROPERTY & ASSETS		ANO UNT	CUBRENT YEAR ALON
31032011	(8.)			(#8.)	31.63.3413
		I.CARH:			the second s
	399071 02.20	O Cosh inband		M6208 91.69	
a second second second	210136.3 (	6) With Report of Banker Inde		11.013 6.31	
#9156353.90	49139112.47	66) W ith 2:14 2		46983974.07	100775006,0
	243 70994.05	2. BALANCE WITH OTHER BANKS		699212 9205	
	17535389.94	(b) In Saving Bank Deposit (B) CS CIL Wand Current A/C with TC/CI Rank (v) Fire 4D sports -		10 761791 73	
	416222102.00	n) Wma%B1	13747 5606 00		
043031258.01	390702713.00	b)W ah Commerce iB asis	283076534.00	420552140.00	5013432157
		Note: FD anreacked (atbook -value) town rds			100 000 000 000 000 000 000 000 000 000
	\$501327.00	a)S ration y Reserver	#885262.00		
	7593-483.00	hiA C'S Funt	70 36418.00		
	3711716.00	o)Building gand	34 7945100		
	262178.00	d) D heite seift up flicht abrie D (b	274019.00		
	20068807.00	Total	20975150.00		
		20915150-00			
		3.M ONEY AT CALLAND			
		SHORTNOTICE:			
	432 SE 2325,00	6 Win 8 B I		51 4741732.00	
357633131.BB	325049616.00	With O they Banks	-	414101133.00	ID 044400 310
		A INVESTMENTS			
	857629 24400	() In Court al and State () oversimply		9924 39150.00	
	als cold a watering	Sederatura (at Sock Value )		4474 J41300V	
		N# 100 W No. *****	104049000000		
		h Martelvalue - Ruliosoasooodo	100000000000		
	30000000				
		N) II have a see a oppose two in standows other than in good (5) be low		-	
	\$00000000	w) Other to we state on it (to be space that )		\$00000000	
	\$00000000	(A) UTI Contra Pand - 488997555 Units	\$00000000		
		5) F865-29Md -RelEe9975.53 6)Market value -ReE156919.52			
004420242100					BB 7400100,00
		5. INVET THENTOUT OF THE			
		FRINCIPALISU BRIDIARY STATE PARTNERSHIPFUND:			
50.00		lashara of QC== to ICo-ope to two B pairs			
		With the ry ages ubwellered it societies			
		e interestion and the second second			
2010018 71 57		S. ADVANCES		and the second second	
201001171 37		Dünsefsterm hann, onthe radius,		226224391.52	
		over draft and bills demonster d			
		Of which assured against			
		a) Govi. and other approved securities			

PREVIOUS YEARASON H 01 2011	AMOUNT (Re)	CAPITAL AND LIADI	LITIES		AMOUNT (R1)	CURRENT YEARAS ON 31:43.2412
615558673.54		BalaaceBraagh#Zorword A)Ap uxBanks				638247688.1
	282700.00	2) Societie & O thers C)Pr im ar y Coop. Banks	1282 780.00			
17 593 706 6 6 17	1731474217.24	ajSA VINGS BANK DEPOSITS Binda thata bjC antratCo-operativeBanks	-	1920135566.23	2034913096,56	
	27896449.33	a)O ther Socie ties A)Ap ex Hanks		54777530.33		
	27758134 0 y 1383 15.26	B)Socknes& Othens C) PrimeryCuop Banks (UCB)	54 77216907 5361-26			
9 21 751 50,98	\$1417101.24	ini CURRENT DEPOSITS a) Individua (s b) Centra ) Coloperatives Bank J		73613 847,19	74023251.93	
	475804976 398000 475206974	a) Othor Sociation A) Ape 3 Banka B) Societ in s& Others C) Primetry Comp. B# nks(UCB)	598000 40342474	40940474		
12925 9450.55	129259450.35	iv)MONEY ATCALLAND SHOR a)Individuals b)C satra ICo-operative Banks	NOTICE	171414802.75	171414802.75	
		<ul> <li>a) Other Socie t lies:</li> <li>A) Apex Banks</li> <li>B) Societites &amp; Others</li> <li>C) Primary Coop Banks</li> </ul>	-	-		
103103305.56	81 6717 59.00 81 6 717 59.00 109807 \$2.00 10980 794.36	v)OTHER DEPOSITS n)R conving D eposit A)OfIstividual B)OfStaff b)Othertypes of thorntally depositsche c)Staff Service Deposit	9960825500 	9960885656 1592 4614.00 126 86436.56	128219906-56	
231650237.27	and the second se	1 BOBROWINGS		-		366 83 44 5 21,9
9446900094	2000000000 7400000000 469000000	5. BORXOWINGS; ) From NABARD n) Short-ouren ioam (SAD) u/s 21(13) h) Schommetric toam (ARP) u/s 25(13) sc u) 1 mEnstructure est issance e under CD ii) From State Bank of India	ANBA et 1981	37510000.00 58000600.00 375205.00	95885200.00	
	:	iii) From State Government a) Short-termioan b) Modiana-termioan		:	:	
6912 550.00		w)Fram Orber Scences (NSTFOC)		ŀ	691255000	102797 756,00
666730,66		4 BHLLS FOR COLLECTION BILLS RECEIVABLE (A S				\$35744,00
12995145.17		7. BRANCH ADJUSTMENTS		100		13826223,41
114997742.84	102127112-11 1287063073	<ul> <li>a. INTEREST SUSPENSE;</li> <li>Onlogwhich towards</li> <li>a)Overdae Interastraceixable</li> <li>b)Oa palafised Interestin NPA a/</li> </ul>			117154215.33 11471734.25	128675949.51
07 46 58 87 E4 2		Balance Carried Over	2			4551957877.13

PERVIOUS YEARASON 31632011	AMOUNT (Rr)	PROPERTY & ASSETS		AMOUNT (25)	CURRENT YEAE ASON 31.00.3013
2553449826.59		BulaaceBussght Ferward			254331 9310.4:
	201 00 (873.57	b)Othugtan gibines utims	226534251-12		
	145083915.11	Of theadynacco, um contduction indu.	16582 177.04 5		
		Of thes des seas, a mount due from liquidated	a manual an a sea o		
		ROCINTING			
	102426314.37	Orthead vances, am orgate vertige	220380845 50		
	85 939060 .37	Of thead the data of the other	101423021.44		
	22400244.67	Considered had & doubt fuln free gvary	22400244,67		
		- domented who we described the granty	10 100 446,01		
62035109401		ii) Modiatatevanioano		1092602692.17	
		Of which success diaga in at			
		a Shu a see bro rege radioben tvoD(a			
	62013109401	b) O the stan gible on cort and	1092 40269 217		
	\$07996377.98	Of thes dynases, smooth i deaft om inde	9273192398		
		Of the advances, amount dwaft on basids to d			
		locilities			
	BK 53152.00	Of the advances, an ous sate hand &	845033200		
		inmedby NSTEDC through NSCB (chemat-	#43 039 Zon		
		This a sence v)			
	141269 508.39	Of theadvances, a mount over des	166829 176.32		
	204926438.39	Of the save book, a mount of NP A	24196 9487.31		
	740321367	Considered bad & doubth lofrecovery			
	790221207	Commerceded & potena louiscovery	74 03 213.67		
2084436.00		iii) Lewis-regardon as		176700100	
		Of which so co to de ga inst			
		a)Goviand othersprovediestres	1.1		
	2024486.00	h) Other tann ble see a rates	1767001.00		
	197522300	Of the advances, an ount due from o du	1641603.00		
		Of these waters a, a mount die from liq undertail	-		
		SOCIETIN I			
	10226300	Off handve scar, sch ounig verdag	102 263 00		
	10126300	Of thend years as amount of NPA	102263.00		
	102263.00	Con sider a dhed & doubt faile fr cany at y	102263.00		
		W) Amu au I coce ly ab te from Ool under	10220200		
121237-45 1.50		Agrica katel Dabt Walver Schemy 2008			132 49 439 44. 25
13 904 580 200		7. INTEREST RECEIVA BLEI			124 45 427 441 1
Sector Street Sector	139045807.00	O Colorad & styness		16925297 76 1	
		Ostof which.		(DV 1 269 7 4D 1	
	10212711211	BILL ONNPA A/CE	11715 62 15 33		
	36918694 10	b)] st. ObStandardA/CI	43098 76 228		
E E	NIL	Of which are rdue Rs. 11715 4215.33	43076 /0 160		
1944110511		Considered bid & doubtful of recovery R. NIL			
326484912.11		WORteventments (accrueffut not due)		131202434.00	191455411/6
			1	· · · INUL 43 · · · ·	121455411761
		& BILLS RECEIVABLE BEING BILLS			
646730.00		FOR COLLECTION (AS FER CONTRA)			11 5744.00
					11
-		9. BRANCH ADJUSTMENTS			
\$4347638.99		18. PREMISES [Less Depreciation]			53291603.99
		IL.FIXEDA PLOATING ASSETS			
		[Lens Depr son tion]			
	2415151.00	i) Forn tored a paintee		266949100	
	456689.00	é) Motor Vahicle		13850 8600	
	165077700	inOffice Machinety Items & Babiomonts		258588800	
	1002.965.00	iv)Com paleri		1570251 91	
6531542.00			H	1379431 71	1211714.91
666719331.27		Balance CarriedOver		-	421720 1731.65

PREVIOUS YEARASON 31,032011	AMOUNT (RL)	CAPITAL AND LIABILITIES	AMOUNT (Ra)	CURRENT YEAR AS ON 31.03.2012
4076650078.82		Balance Brought Forward		4551957877.13
		9. INTERESTPAYABLE:	-	
ALL STREET, ST	121370049.12	a)OuDeposits	162523733.63	
128950 673.12	758042450	b) On Barr orwings	79421.50.00	170465883.63
	-	. OTRER LIABILITIES & PROVISION	-	
	40000.00	a)Nabard Scheidy (R WHS)	-	
	4736981.89	b)SundryCreditors	14773969.19	
	628750.00	c)ShareaSuppense	572950.00	2
	165000.00	d)Provision for Audit fee	00.00000	6
	295273.00	e)Professional Taxpayable	176926.00	1
	1582249.38	()Provident Fund payable	-	8 1 1 1 1 1 1
	32318.00	g)G.S.L.I assistance premium mysble	19898.00	
	49639 500	h)Provision for TDS rofund receivable	\$17263.00	
	2055336.00	(Contingent Provision for Standard Assets	3755336.00	
	-	)Drafts Payable	70236.00	
-	3256975.00	KiSubsity Reserve FundAccount	3737243.00	
- N	-	hDemend Drak	21145.00	
	-	m)Bank-Adjustment	1409084,00	
	-	n)AccountUn-reconciled	1976.00	
13289281.27	-	o)OutstancingLinhity	6586380.00	31742406.1
		IL PROFIT & LOSS ACCOUNT		
(a. 1	0	Profit as per last balance -sheet	1	1
	-	Less: A ppropriations		
	-	Add: Profit for the year brought		
	1	fram P&L Account	1	)
	-	12. CONTINGENT LIABILITIES		
	-	i) Outstanding induities for guarantee issued		
	-	ii)Others -		
218889833,21		GRANDTOTAL		4754166166.95

Dates DIMAPUR 25th Sept. 2012

> Sd/-B.K.THADANI MANAGING DIRECTOR

Sd/-T.IMKONGLEMLALONGKUMER DIRECTOR

Sd/ RAJUSEI, RE LHOUSA VICE-CHAIRMAN

PREVIOUS YEARASON 31,03,201 1	AMOUNT (Rs)	PROPERTY & ASSETS	AMOUNT (Rs.)	CURRENT YEAR AS ON 31.03.2012
3666719331.27		Balance Brought Forward		4217206731.65
		12. OTHER ASSETS		
	8520421.57	i)Suspense	11550784,08	A CONTRACTOR OF A
	896155.82	Stock of Printed Materials & Stationery	1248668.R2	
	22000.00	Security Deposit with Post& Telegraph	22000.00	
	2447186.83	iv) I ncome TaxRefund Receivable	247952483	
	35942119.53	v) A mortizing Investment under US-64	26267508.66	1
	800000.00	vi)Assistance Receivable from State Govt.		
	2267858.00	vi)Disputed Income Tax, with I.T.Deptt,	2267858.00	
		viii) Staff PFC Pending A djustment	60179.62	and the second sec
	28495159.77	ix)Sundries	28498 59.77	
		x) Amountrealisa biefrom staff		
	967735.00	(a)Festivaladvance 11146(3.00		1
	354154.00	(b)T.A.advance 436556.00	1551 169.00	1
	182523.02	xi) Selary Sa vings A/C pending adjustment	224726.32	
	123600.00	xi)Advance Payment of Income-Tax	262303.00	
	2481816.00	xiii) Disputed P.F.C.	2481816-00	d
	17398.00	xii)Books & Periodicals	18163.00	
	4698200	xiii) Interestrelis ( receivable	4698700	
	1070100	xiv) Receivable from SLite Govt.(Historicoutsa Institutional Debta)	4096 AA/	
		xv)Account Un-recording	-	
311243763.98	2766494844	attravel outsevend	27800022.44	The second secon
112-01-05.70	LIGOTINGT		-	104779870.54
		12. NON-BANKING ASSETS		
		ACQUIRED IN SA TISFACTION		
		OFCLAIMS		
		13. PROFIT& LOSS ACCOUNT		
	447083077.79	Accumulated isses	440926737.96	
	03.0	Add: Loss transferred from P & L Appropriation A/C	0.00	
440926737.96	6156339.83	Less: Profit for the year broughtfrom P& LAccount	87 47 173 20	432179564.76
218889833.21		GRAND TOTAL		4754166166.95

#### AS PER OUR REPORT OF EVEN DATE ATTACHED AJT K. JAIN & ASSOCIATES, CHARTEREDACCOUNTANTS

Sd/-TOSHI AIER, IAS CHAIRMAN

Sd/-AJIT K. JAN

YEAR 2010-2011	ANOUNT (Rs.)	EXPENDITURE	AHOUNT (Rs.)	CURRENT YEAR 20 11.2012
		T) intelast paid oo de poulte , barrawiage, éta.		
	134532366.08	a) Init. Oneepo aita	1838 6847 8.3.2	
	2778644.88	e) Init On Bong wings	6435 750, 11	
28 5 12 2 10 5.88	1673 1509400	c) Inite a inter-branch	170/18370.00	348244678,
6612036400		2) Seisries, 6) in what has been do ra vie 66		
	1	een ributio e		01012000.0
		3) Director's & localizammittee member's		
		faastellowsnaar		
1.1	3910000	a) Gitting i ouu	23406.00	
	91248.50	ð) Mostingsspannen	4117.00	
	93383.00	c)Tatvelling allo wense	1726 18.00	
417883.58	9339200	d)Annical General M autingeopens as	9444200	441677.4
3466194.75	1	d Rang, ignag)fatoriaga, Hybling, ate.		242 3088.0
211333.2D		f)Lewchz/gas		32.464.9
001601.00		5)Pontage, telegram & telephone charges		101486.
		7) ABdit See		10.4444.4
192626.72		4) Stationary, printing Addvertismant, atc.		f 18. 0 71. 6
\$\$33712,52		in Depreciation on and repairs toproparty		
		10) Loss from sale of or da aling with Non-		
		banklagnnanta		
		%) Other Expenditure:		
	5544184	= )Commision&excellange	77977.05	
	764251.00	the TAIOILAT	00216900	
	41877.2.18	c) M iso allense ut 4 spendhers	454682891	
	7988392.88	d) A martizatio a print of mant la s	08 25 38 3.87	
	000	e)AmortbalianExpenditure on Invasiment	000	
	54044300	DEx-G rese	3235 44.00	
	15530600	g)Subscription	38050000	
	1558900	h)C'Anthon Dea ontpett	104 12600	
	69 600000	() Premium for Stell Greatelly Fund	08 47 27 200	
	2269692.00	k) Oupo siting una premute	2845730.99	
	702204:00	DL cov sens Astment	25 1563 (00	
	0.00	III) Paymenti on VR a.CR Schemps	655850.00	
	5027 84,43	BLO B DRA/COLODCS	10532 14.85	
0460080.36	6156.30	-)Unevalle able #seets written-off	1649763.84	32 422 7 37,6
	MARINE CO.	12)P rovible K		
	192757 00	4 Interes (Provision for A CE Fund	188240.00	
	0238 8.00	b) for Overdue & unramije edenternet	15 2307 69 . 74	
	000	C) For invois the unit Dispreciation Referen		
	176415.00	d FarNPAs	4 0000000	
12D424 3.00	000 749274.00	D ForOliteramela 6 ForStandard amela	000	212184 4474
626 2774.83		15)ProfitbeforsPriorPeriodProvisionc/d		4665368.61
67 (164 37 W				496888888.01
415633P.83	TO	Payment - towards Prio?Period Items 8 sisses of Promit Inselanted 148 sisses fibert		49-194.0
121277413	10	a elenced i mait l'anglèring i dei elencestent		

Dated DatAPUR 25th Sept. 2012 SdF ELK.THADANI MANAGING DIRECTOR

Sd/-TJMKONGLEMLALONGKUMER DIRECTOR

Sd4 RAJUSELIE LHOUSA VICE-CHA'RMAN

PREV10US YEAR 2810-2011	AMOUNT (Rs.)	INCOME	AMOUNT (Rs.)	CURAENT Y EAR 30 115-2012
240330544.42	84955652.8 1 122601344.00 4296408.41 197818094.00	1) into 10016 B is cannot; 0) bit, an in man 6 adv and us b) bit, an in man 6 adv and us b) bit, an internet deposits 1) in terms deposits 2378064.76 10 in approved securities 70 g/B57.34 c) inticent interference in	11(7133044,67 10363302 3:0 170 110370,00	47 B.2.37 138.1
4113224.76 376669.69		2) Commission, uncongeterburges 3) Substalesandddsetions		26 67.206.3 34446.4,4
••		4) Incomercomete - koskingtesetsä Preik 179 määltöt daaling viihtach annate	-	*
	22 4400 00 148325200 244347 194 580000 602339739 20930.05	5) O the of Rede(pts: i) Member's admin a son Peen fi) inclusional charges for Metodification and social and with Locker and reading of with De-provisioning from A so als with De-provisioning of Securities has been afrom 7 rading of Securities has been afrom 7 rading of Securities has been afrom 7 rading of Securities	226 53000 2118849 .45 4676585.31 4200.00 7035597.38	
12269748.86	3500.00	x))interiusi on LT/R efued	0.00	1043752.1
		fillet Loss transferred to bulancy sheet		
337718437.18	In the second			426226426.41
6282774.83		By Not Promit Hod By Receipts from Prior Period disms By Balanceof Loss Transformed in BalanceSheet		00143452 28067.0

THERE I

f Loss transforred in B slasceSheet RÅR

1111122.30

ASPEROURREPORT OF EVENDATE A IT ACHED FOR AJIT K. JAIN & ASSOCIATES, CHARTERED ACCOUNTANT

Sdi-TOSHI AIER, IAS CHAIRMAN

Sdi- AJIT K. JAIN

NS	Darthandore	Crop Production	oduction	Animal husbandry	Animal usbandry	Fishery	Kua	Piantation	ution	Others	ers	Overall	rall
NIC	t at the set	Before	After	Before	After	Before	After	Before	After	Before	After	Before	After
Α.	Employment (Mandays / Annum)		8										
1.	Low (<70)	1	0	1	0	1	0	1	0	1	1	5	-
5	Medium (71-272)	10	6	30	28	80	7	5	5	0	0	53	49
3.	High (273 >)	-	3	1	4	0	2	0	-	0	0	2	10
	Total	12	12	32	32	6	6	9	9	1	1	09	60
B.	Income (Rs. / Annum)												Y
Ι.	Low (< 48,431)	1	0	1	0	2	0	2	0	1	1	9	
2.	Medium (48,432-59,636)	11	80	31	27	7	9	4	4	0	0	52	48
3.	High ( 59,637 >)	0	4	0	5	0	3	0	2	0	0	2	11
	Total	17	17	66	27	0	0	4	4	-	-	60	60

A21

**APPENDIX - VI** 

# CURRICULUM VITAE

The author of this manuscript, KEVIU SHUYA, s/o N. SHUYA, was born on the 2<sup>nd</sup> Jan 1980 at 4<sup>th</sup> Mile, Dimapur, Nagaland. He passed out his HSLC Examination in the year 1997 from High Mountain School, Signal Angami Dimapur under Nagaland Board of School Education and HSSLC Examination from Union Christian College, Meghalaya under Meghalaya Board of School Education. He passed out is B.Sc (Agri.) from School of Agricultural Sciences and Rural Development under Nagaland University during 2004 and also his M.Sc (Agril, Economics) in the year 2006.

After which he worked under ICAR (Indian Council of Agricultural Research) ad-hoc Scheme in the establishment of Nagaland University, in the Department of Agricultural Economics, Medziphema Campus as SRF (Senior Research Fellow) during the period May 2007 - Sep 2009. He later joined Agricultural Technology Management Agency in the capacity of Deputy Project Director, under Support to State Extension Programmes for Extension Reforms' Scheme, department of Agriculture & Co-operation, Ministry of Agriculture, Government of India.

He registered his Ph.D on 14<sup>th</sup> November 2008, a part time, started his research work since then and completed all necessary requirements in July 2013.

LIBRARY Magatani University SASED : Medziphema

Signature Marino

A second contract of complementations. We put on he of

Restrict         Value           59         3,81,000           59         3,81,000           59         3,81,000           150         9,07,500           150         9,07,500           23         1,39,500           23         1,39,500           232         14,28,000           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           3,87         23,800           53         3,34,500           53         2,59,500           53         2,59,500           53         2,59,500           53         2,59,500	Nature (mm 5)         Rum 6)           3,81,000         4           9,07,500         17           9,07,500         17           1,39,500         4           1,39,500         4           1,39,500         4           23,8,000         25           96,000         0           3,34,500         25           3,34,500         25           2,59,500         10           2,59,500         10           5,50,000         35	Nature (mat)         Rational (mat)         Nature (mat)           3,81,000         4         9,600           9,07,500         17         42,400           1,39,500         4         9,600           1,39,500         4         9,600           1,39,500         4         9,600           1,39,500         25         61,600           14,28,000         25         61,600           23,800         0.42         1,026,67           3,34,500         25         45,600           3,34,500         25         45,600           2,59,500         10         27,200           6,90,000         35         72,800
	4 4 4 4 25 25 25 25 25 25 25 25 25 25 25 25 25	Remote the second time second t
Value         Kalue           9.600         42,400           42,400         61,600           9.600         13,500           45,600         13,500           72,800         72,800		

(Figure in the parentheses represents the percentage)

.

birds respectively. The maximum present value was seen from piggery wh an average value of ₹ 23,800 per borrower family and ₹ 11,500 per borrower family.

#### In Respondents' cost of livestock production

The cost of livestock production on an average incurred was found out 32,496.73 and ₹ 14,653.45 for the borrower and the non-borrowers repetively as given in Table 5.24. Under both the cases (borrowers and borrowers), the highest cost was incurred on the purchase of animals for 11,278.40 (34.71 per cent) and ₹ 5,264.18 (392 per cent) respectively, followed by an average feeding cost of ₹ 8,243.25 per cent) for the borrowers and ₹ 3,779.96 (25.80 per cent) for mborrowers:

#### **3.3.** Returns from livestock production

The average return from livestock production for borrowers was found in to be  $\gtrless$  55,371.26 and  $\gtrless$  33,648.17 for non-borrowers as given in 1.64 5.25.1. Under borrowers, the highest average return was found out to be cattle with a return of  $\gtrless$  27,979.33 (50.53 per cent) and for the borrowers the highest average return was from piggery with an average 123,741.50 (70.56 per cent).

The item-wise breakup of return from different source as given in tube 5.25.2, revealed that of the different items sold, the sale of mature smalls contributed the highest, with an average sold out value of  $\gtrless$  30,422 big per cent) for the borrowers and  $\gtrless$  23,686.04 (70.39 per cent) for the subborrowers.

~96~

107750 $5.97870$ $1.38300$ $34.800$ $87000$ $38.47700$ $(2.80)$ $(15.54)$ $(3.59)$ $(3.90)$ $(2.26)$ $(100)$ $979.13$ $5.39196$ $1.410.50$ $2.44.13$ $975.00$ $31.273.94$ $(3.13)$ $(1724)$ $(4.51)$ $(0.78)$ $(3.12)$ $(100)$ $(3.13)$ $(1724)$ $(4.51)$ $(0.78)$ $(3.12)$ $(100)$ $(3.13)$ $(1724)$ $(4.51)$ $(0.78)$ $(3.12)$ $(100)$ $(3.43)$ $(1703)$ $(4.42)$ $(0.79)$ $(4.00)$ $(100)$ $(3.09)$ $(17.03)$ $(4.42)$ $(0.79)$ $(3.03)$ $(100)$ $(1003.04)$ $5.533.70$ $1.434.83$ $256.54$ $985.00$ $32.496.73$ $(1,003.04)$ $(17.03)$ $(4.42)$ $(0.79)$ $(100)$ $(100)$ $(1,03)$ $(17.03)$ $(17.03)$ $(4.42)$ $(0.79)$ $(100)$ $(1,01)$ $(2.86)$ $(17.18)$ $(3.98)$ $(1.07)$ $(1.99)$ $(100)$ $(2.86)$ $(17.18)$ $(3.98)$ $(1.07)$ $(1.99)$ $(100)$ $(2.80)$ $(17.92)$ $(4.20)$ $(1.07)$ $(2.36)$ $(100)$ $(3.28)$ $(17.92)$ $(4.20)$ $(1.07)$ $(2.34)$ $(100)$ $(3.28)$ $(17.92)$ $(4.20)$ $(1.01)$ $(2.30)$ $(1.01)$ $(3.28)$ $(17.92)$ $(4.20)$ $(1.07)$ $(2.91)$ $(100)$ $(3.13)$ $(17.92)$ $(4.20)$ $(1.01)$ $(2.51)$ $(100)$ <	Groupe Construction Control Fooding Medication (	Fooding	Fooding Cost	Fooding Cost			Statistics 1	Equipmenta	Labour	Transportation, T	Marketing	Others	Total Cost
97913         5,391.96         1,410.50         244.13         975.00           (3.13)         (17.24)         (4.51)         (0.78)         (3.12)           (3.13)         (17.24)         (4.51)         (0.78)         (3.12)           (3.43)         (17.24)         (1.511.00         (177.50         (1.100)           (3.43)         (18.86)         (5.45)         (0.64)         (4.00)           (3.43)         (18.86)         (5.45)         (0.64)         (4.00)           (3.43)         (17.03)         (1.442)         (0.64)         (4.00)           (1.003)04         5.533.70         1,442)         (0.79)         (3.03)           (1.003)04         5.533.70         1,442)         (0.79)         (3.03)           (1.003)04         5.533.70         1,442)         (0.79)         (3.03)           (3.09)         (17.03)         (4.42)         (0.79)         (3.03)           (2.86)         (1.718)         (3.98)         (1.07)         (1.99)           (3.28)         (17.92)         (3.98)         (1.01)         (2.36)           (3.19)         (17.92)         (4.26)         (1.01)         (2.36)           (3.19)         (17.92)	Group I 3,871.00 13,606.80 11,148.00 (35.36) (28,97)	3,871.00 13,606.80 (10.06) (35.36)	13,606 80 (35.36)		11,148,00 (28,97)	Concernance of the local division of the loc	194.00 (0.50)	1,077.50 (2.80)	5,978.70 (15.54)	1,383.00 (3.59)	348.00 (0.90)	870.00 (2.26)	38,477.00 (100)
952.50         5.230.45         1.511.00         177.50         1,110.00           (3.43)         (18.86)         (5.45)         (0.64)         (4.00)           (3.43)         (18.86)         (5.45)         (0.64)         (4.00)           (3.03)         (17.03)         1,434.83         256.54         985.00           (1.003)04         5.533.70         1,434.83         256.54         985.00           (1.003)04         5.533.70         1,442)         (0.79)         (3.03)           (1.003)04         5.533.70         1,442)         (0.79)         (3.03)           (1.003)04         5.533.447         602.19         (1.07)         (1.99)           (2.86)         (17.18)         (3.98)         (1.07)         (1.99)           (2.81)         (17.92)         (4.26)         (1.01)         (2.36)           (3.28)         (17.92)         (4.26)         (1.01)         (2.36)           (3.19)         (17.92)         (4.26)         (1.01)         (2.31)           (3.19)         (17.73)         (4.31)         (0.99)         (2.51)           (3.13)         (17.73)         (4.21)         (1.02)         (2.31)           (3.13)         (17.73)	Group II 3,333.38 10,884.60 7,725.75 (10.66) (34.80) (24.70)	1,333,38 10,884.60 (10.66) (34,80)	10,884.60 (34,80)		7,725,75 (24,70)		329.50 (1.05)	(51.5)	5,391.96 (17.24)	1,410.50 (4.51)	244.13 (0.78)	975.00 (3.12)	31,273.94 (100)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Group III 3,101.00 9,343.80 5,856.00 (11.18) (33.68) (21.11)	3,101.00 9,343.80 (11.18) (33.68)	9,343.80 (33.68)		5,856.00 (21.11)		457.00 (1.65)	952.50 (3.43)	5,230,45 (18.86)	1,511.00 (5.45)	177.50 (0.64)	1,110.00 (4.00)	27,739.25 (100)
323.75         1.943.63         450.00         121.25         225.00           (2.86)         (17.18)         (3.98)         (1.07)         (1.99)           463.91         2.534.47         602.19         142.97         334.38           (3.28)         (17.92)         (4.26)         (1.01)         (2.36)           (3.28)         (17.92)         797.50         142.97         334.38           (3.19)         (17.92)         (4.26)         (1.01)         (2.36)           (3.19)         (17.92)         797.50         182.50         465.00           (3.19)         (17.92)         797.50         182.50         465.00           (3.19)         (17.92)         (4.31)         (0.99)         (2.51)           (3.13)         (17.92)         (4.31)         (0.99)         (2.51)           (3.13)         (17.73)         (4.21)         (1.02)         (2.33)	Average 3,435,13 11,278,40 8,243,25 (10.57) (34.71) (25.37)	3,435,13 11,278,40 (10.57) (34.71)	11,278,40 (34,71)		8,243,25 (25.37)		326.83 (1.01)	1,003.04 (3.09)	5,533.70 (17.03)	1,434.83 (4.42)	256.54 (0.79)	985.00 (3.03)	32,496.73 (100)
463.91         2.534.47         602.19         142.97         334.38           (3.28)         (17.92)         (4.26)         (1.01)         (2.36)           589.25         3.316.03         797.50         182.50         465.00           (3.19)         (17.92)         797.50         182.50         465.00           458.97         2,598.04         616.56         148.91         341.46           (3.13)         (17.73)         (4.21)         (0.99)         (2.51)           (3.13)         (17.73)         (4.21)         (1.02)         (2.33)	Group I 1,005,00 3,859,50 3,365,00 (8.88) (34,11) (29,74)	1,005,00 3,859,50 (8.88) (34.11)	3,859.50 (34,11)		3,365.00 (29.74)		20.63 (0.18)	323.75 (2.86)	1,943.63 (17.18)	450.00 (3.98)	121.25 (1.07)	225.00 (1.99)	(11,313.75
589.25         3,316.03         797.50         182.50         465.00           (3.19)         (17.92)         (4.31)         (0.99)         (2.51)           458.97         2,598.04         616.56         148.91         341.46           (3.13)         (17.73)         (4.21)         (1.02)         (2.33)	Group II 1,327,50 5,186.94 3,469.38 (9.38) (36.67) (24.52)	1,327.50 5,186.94 (9.38) (36.67)	5,186.94 (36.67)		3,469.38 (24.52)		85.00 (0.60)	463.91 (3.28)	2,534.47 (17.92)	602.19 (4.26)	142.97 (1.01)	334.38 (2.36)	14,146.72 (100)
458.97         2,598.04         616.56         148.91         341.46           (3.13)         (17.73)         (4.21)         (1.02)         (2.33)	Group III 1,782.75 6,746.10 4,505.50 (36.47) (24.35)	1,782.75 6,746.10 (9.64) (36.47)	6,746.10 (36.47)		4,505.50 (24,35)	1	115.25 (0.62)	589,25 (3.19)	3,316.03 (17.92)	797,50 (4.31)	182.50 (0.99)	465.00 (2.51)	18,499.88 (100)
	Average 1,371,75 5,264,18 3,779.96 (9.36) (35.92) (25.80)	1,371,75 5,264.18 (9.36) (35.92)	5,264.18 (35.92)		3,779.96 (25.80)		73.63 (0.50)	458.97 (3.13)	2,598.04 (17.73)	616.56 (4.21)	148.91 (1.02)	341.46 (2.33)	14,653.45 (100)

(Figure 71) the parentheses represents the percentage)

The second secon

Table 5.25.1. Distribution of respondents' return from livestock production

(₹ in average)

	Groups	Cattle	Poultry	Piggery	Goatery	Total
	Group I	15,734.00 (28.35)	225.00 (0.41)	38,669.70 (69.66)	880.00 (1.59)	55,508,70 (100)
	Group II	28,230,00 (51,39)	212,50 (0.39)	25,453.18 (46.33)	1,040.00 (1.89)	54,935.68 (100)
and a state of the	Group III	39,974,00 (71,81)	100,00 (0.18)	13,995.40 (25.14)	1,600.00 (2.87)	55,669,40 (100)
	A.verage	27,979.33 (50,53)	179.17 (0.32)	26,039,43 (47,03)	1,173.33 (2.12)	55,371.26 (100)
	Group I	2,252,50 (8.77)	1,187.50 (4.62)	22,240.00 (86.60)	0.00 (0.00)	25,680,00 (100)
	Group II	8,875,63 (26,87)	1,296,88 (3,93)	20,432,50 (61,86)	2,425,00 (7.34)	33,030.00 (100)
	Group III	11,035,00 (26,13)	1,487,50 (3,52)	28,552.00 (67,60)	1,160,00 (2,75)	42,234.50 (100)
	Average	7,387.71 (21.96)	1,323.96 (3.93)	23,74150 (70,56)	1, 195.00 (3.55)	33,648,17 (100)

(Figure in the parentheses represents the percentage)

	Groups	Nos.	Group I (0.003)	Group II (0.001)	ВОR Group III 0.20 (0.0004)	Average (0.002)	2.25 Group I (0.01)	Group II 2.19 (0.01)	Group III 2.90 (0.01)	Z Average 2.45
	Young	Value	3,760.00 (6.77)	1,585.00 (2.89)	(1.08) (1.08)	1,981.67 (3.58)	5,050.00 (19.67)	4,606.25 (13.95)	6,220.00 (14.73)	5,292.08
	N	Nos	4.10 (0.01)	3.35 (0.01)	2.30 (0.004)	3.25 (0.01)	6.25 (0.02)	7.22 (0.02)	8.20 (0.02)	7.22
A ROUTE	Mature	Value	39,305.00 (70.81)	30,402.50 (55.34)	21,560.00 (38.73)	30,422.50 (54.94)	20,387.50 (79.39)	22,503-13 (68,13)	28,167.50 (66,69)	23,686.04
It works	NUT	VIIIA	9,720.00 (17 51)	18,225.00 (33.18)	26,730.00 (48.02)	18,225.00 (32.91)	0.00	4,556,25 (13.79)	6,075.00 (14.38)	3,543,75
	East	C-88	0.00 (0.00)	0.00(0.00)	0.00 (0.00)	0.00	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00
	Atomica	CARGINESS C	2,453.70 (4.42)	4,536.18 (8.26)	6,639.40 (11.93)	4,543.09 (8.20)	0.00(0.00)	1,125.00 (3.41)	1,500.00 (3.55)	875.00
	Outrans	SIDHU	270.00 (0.49)	187.00 (0.34)	140.00 (0.25)	199.00 (0.36)	242.50 (0.94)	239.38 (0.72)	272.00 (0.64)	251.29
	Total	1 0141	55,508.70 (100)	54,935.68 (100)	55,669.40 (100)	55,371,26 (100)	25,680.00 (100)	33,030.00 (100)	42,234.50 (100)	33,648.17

Strates with Sample Party

# **PHOTO GALLERY**

## Cimpse of animal husbandry (Cattle) undertaken by the respondents':



ill Researcher with respondent at Medziphema block



(2) Researcher interacting with female respondent at Medziphema block



III Researcher with respondent at Dhansiripar block



(4) Researcher interacting with female respondent at Dhansiripar block

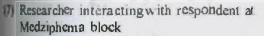


in Researcher interacting with female respondent at Medziphema block



(6) Researcher with respondent at Medziphema block







(8) Researcher interacting with female respondent form Medziphema block



19 Atypical cattle shed at Dhansiripar Block



(10) Cattle shed at Medziphema block



(II) Free-range Cattle rearing at Dhansiripar block



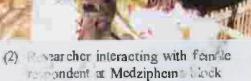
(12) Cattle shed at Medziphema block

# PHOTO GALLERY

Compse of animal husbandry (Piggery) undertaken by the respondents':



 Researcher interacting with respondent at Dhansiripar block.





(1) Researcher interacting with female respondent at Dhansiripar block



(4) Researcher with female respondent at Medziphema block



Researcher interacting with respondent at Medziphema block



(6) Researcher interacting with female respondent at Medziphema block



- (1) Researcher interacting with female respondent at Medziphema block
- (8) Researcher interacting with respondent at Medziphema block



(W) Researcher interacting with female respondent at Dhansiripar block



(10) Researcher interacting with female respondent at Dhansiripar block



(II) Researcher interacting with female respondent at Medziphema block



(12) Semi-open system of pig rearing at Medziphema block





D Female respondent of Dhansiripar block caring for the piglet

(14) Typical traditional pig sty at Medziphema block

10.0



(b) Typical modern pig sty at Meaziphema block



(16) piggery and fishery integrated farming practiced at Dhansiripar block



IT A view of items used in preparation of pg feed at Dhansiripar block



(18) A view of preparation of pig field at Medziphema block

## PHOTO GALLERY

upse of animal husbandry (Poultry) undertaken by the respondents':



Recarcher with respondent fam N at N phema block



(2) Researcher with male respondent at Medziphema block



Researcher with female respondent at Medziphema block



(4) A view of poultry farm at Medziphema block

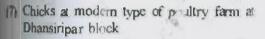


Nixew of traditional poultry farm



(6) A view of traditional chicken coop







(8) Ready for market broiters at Medziphema block



(9) View of swan goose reared by respondent at Medziphema block



(10) Integrated farming system practiced by respondents at Dhansiripar block



(II) View of poultry feeds used by respondents at Medziphema block



(12) Poultry nutrients and medication used by the respondent

### **WFISH PRODUCTION OF THE RESPONDENTS**

#### **W.I. Respondents'** cost of fish production

The cost of fish production of the respondents is given in Table 5.26. The overall average cost of fish production was found to be  $\gtrless$  11,455.63 for the binowers and  $\gtrless$  8,091.96 for the non-borrowers. The total cost incurred was und increasing with the increase in the farm size under both the cases of binowers and non-borrowers. The highest cost incurred for fish production us the feed cost, with an average cost of  $\gtrless$  4,626.53 (40.39 per cent) and 11,10.25 (44.62 per cent) for borrowers and non-borrowers respectively.

### 22. Respondents' yield and income from fish production

The respondents' average yield from fish production was found to be 1 kg, with a worth value of ₹ 25,026.67 for the borrowers, whereas for the m-borrowers, it was found out to be 154.73 kg, worth ₹ 15,472.50 as given in 1 kg = 5,27. The average sold out value of fish for the borrowers was found to 1 s = 23,670.83 and ₹ 14,760.83 for the non-borrowers. Comparatively, in terms 1 tg = kd and returns from sales of fish, the borrower was found to be better off has is counterpart, the non-borrowers.

#### **RESPONDENTS' PLANTATION**

#### Respondents' cost of plantalion

The cost of plantation for the respondents is given in the Table 5.28. The warage cost of plantation for the borrowers was found out to be  $\gtrless$  2,029.73 at  $\end{Bmatrix}$  4,086.33 for the non-borrowers. The highest cost incurred for plantation much both the cases was from the labour cost. The borrowers' human labour et was found to be 59.78 per cent, contributed by 34.16 per cent owned

Tille 5.27. Distribution of respondents yield and income from fish production

(in average)

	-	1	rield	Co	nsumed	1	Sold
	Groups	Kg	Value (Rs)	Kg	Value (Rs.)	Kg	Value (Rs.)
	Group I	24.00	2,400.00	3.00	300.00	21.00	2,100.00
DOM: NO	Group 11	256.40	25,640.00	16.28	1,627.50	240.13	24,012.50
AND REPORTS AND	Group III	470.40	47,040.00	21.40	2,140.00	449.00	44,900.00
	Average	250.27	25,026.67	13.56	1,355.83	236.71	23,670.83
	Group I	76.50	7,650.00	3.75	375.00	72.75	7,275.00
ALL DALA AND AND A	Group II	183.38	18,337.50	8.50	850.00	174.88	17,487.50
THE OWNER WATER OF THE OWNER OWNE	Group III	204.30	20,430.00	9.10	910.00	195.20	19,520.00
-	Average	154.73	15,472.50	7.12	711.67	147.61	14, 760.83

(Figure in the parentheses represents the percentage)

## **PHOTO GALLERY**

timpse of fishery activities undertaken by the respondents':



III Researcher with respondent at Medziphema block



(2) Researcher with female respondent a Medziphema block



Researcher with female respondent at Medziphema block



(4) Respondent from Medziphem 1 block



Il Researcher with respondent at Medziphema block



(6) Researcher with female respondent at Medziphema block



 Researcher with respondent at Dhansiripar block



(8) Researcher with female respondent at Dhansiripar block



(9) Researcher with respondent at Dhansiripar block



(10) Researcher with respondent at Medziphema block



(1) Researcher with respondent at Dhansiripar block



(12) Researcherwith respondent at Dhansiripar block



(11) View of respondent for any at Dhansiripar block

(14) View of respondent fishery at Medziphema block



(15) View of respondent fishery at Dhansiripar block



(16) View of respondent fishery at Dhansiripar block



Wew of respondent fishery at Dhansiripar block



(18) View of respondent fishery at Medziphema block



(19) View of respondent fishery at Medziphema block



(20) View of respondent fishery at Dhansiripar block





- (21) View of respondent fishery at Medziphema block
- (22) View of respondent fishery at Medziphema block





Di) A view of integrated farming at Dhansiripar block

(24) Pump-set used for dual purpose by the respondent at Dhansiripar block

amour and 25.62 per cent hired labour. Whereas, the non-borrowers had a uman labour cost of 60.62 per cent contributed by 31.35 per cent owned abour and 39.26 per cent hired labour. The next highest cost was the cost of planting materials, which was 33.82 per cent for the borrowers and 33.11 per ent for the non-borrowers.

#### 5.2 Respondents' returns from plantation

The return from plantation for the respondents is given in the lable 5.29. The average total return from plantation for the borrowers was bund to be  $\gtrless$  1,136.67 and  $\gtrless$  1,926.56 for the non-borrowers. The borrowers' mal return from sale of the products accounts for 61.58 per cent and for the two-borrowers it was 60.77 per cent. The highest sales return from plantation multiple from the sale of fruit crops, both for the borrowers and the two-borrowers with 57.18 per cent and 44.34 per cent of the total value repectively.

#### EXPENDITURE AND INCOME OF THE RESPONDENTS

#### 181. Respondents' annual expenditure

The total annual expenditure of the respondents' family is given in the 5.30. The borrowers on an average per annum had a total expenditure of 1.22,346.56, whereas for the non-borrowers it was  $\gtrless$  88,838.89. The total menditure for the borrowers was incurred from on-farm expenditure mounting to  $\gtrless$  62,074.31 (50.74 per cent) and the family-needs expenditure mounting to  $\gtrless$  60,272.25 (49.26 per cent), whereas for the non-borrowers, it is found out to be  $\gtrless$  36,363.64 (30.15 per cent) for on-farm expenditure and 132,475.25 (59.07 per cent) for family-needs expenditure. The highest

~98~

Chemicals         Transportation         Marketing         Others           82.50         82.50         0.000         0.000           82.50         (3.20)         (3.20)         (0.00)         (0.00)           60.00         60.00         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (3.20)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (3.20)         (0.00)         (0.00)         (0.00)           (3.20)         (0.00)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           (3.14)         (3.14)         (0.00)         (0.00)         (0.00)		Human Labour		Human Labour		Distant					
Group II $660.00$ $880.00$ $1540.00$ $871.20$ $87.20$ $82.50$ $000$ $000$ Group II $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Group II $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(500)$ $000$ $000$ Group III $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Group III $(25.62)$ $(34.16)$ $(59.78)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $000$ $000$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $(000)$ $000$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $(000)$ $(000)$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(320)$ $(320)$ $(000)$ $(000)$ Average $(25.62)$ $(34.16)$ $(59.73)$ $(33.82)$ $(32.0)$ $(320)$ $(000)$ $(000)$ Group II $000$ $000$ $(000)$ $(000)$ $(000)$ $(000)$ $(000)$ $(000)$ Group III $(31.5)$ $(31.35)$ $(33.11)$ $(31.4)$ $(31.4)$ $(000)$ $(000)$ Average $1,95.83$ $(32.52)$ $(32.10)$ $(32.60)$ $(000)$ $(000)$ $(000)$ <th< th=""><th></th><th>Groups</th><th>Hired</th><th>Owned</th><th>Total</th><th>Materials</th><th>Chemicals</th><th>Transportation</th><th>Marketing</th><th>Others</th><th>Total Cost</th></th<>		Groups	Hired	Owned	Total	Materials	Chemicals	Transportation	Marketing	Others	Total Cost
Group II $\frac{480.00}{(25.62)}$ $\frac{640.00}{(316)}$ $\frac{1,120.00}{(3978)}$ $\frac{633.60}{(33.82)}$ $\frac{60.00}{(3.20)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Group III $\frac{420.00}{(25.62)}$ $\frac{540.00}{(3416)}$ $\frac{5978}{(33.82)}$ $\frac{53.82}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{420.00}{(25.62)}$ $\frac{540.00}{(3416)}$ $\frac{554.40}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{50.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{520.00}{(25.62)}$ $\frac{691.33}{(3416)}$ $\frac{1,213.33}{(33.82)}$ $\frac{686.40}{(33.82)}$ $\frac{52.50}{(32.00)}$ $\frac{65.00}{(32.00)}$ $\frac{65.00}{(32.00)}$ $\frac{60.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{520.00}{(25.62)}$ $\frac{691.33}{(34.16)}$ $\frac{1,213.33}{(33.82)}$ $\frac{686.40}{(33.82)}$ $\frac{65.00}{(32.00)}$ $\frac{65.00}{(0.00)}$ $\frac{60.00}{(0.00)}$ Average $\frac{520.00}{(25.62)}$ $\frac{691.33}{(34.11)}$ $\frac{1,213.33}{(32.21)}$ $\frac{686.40}{(33.11)}$ $\frac{65.00}{(33.11)}$ $\frac{65.00}{(32.10)}$ $\frac{60.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Group II $\frac{4375.00}{(292.6)}$ $\frac{46.87}{(31.35)}$ $\frac{906.25}{(33.11)}$ $\frac{495.80}{(33.11)}$ $\frac{46.88}{(31.44)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Group III $\frac{4375.00}{(31.35)}$ $\frac{6525.00}{(31.35)}$ $\frac{3375.00}{(33.11)}$ $\frac{31750}{(31.44)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ Average $\frac{1,195.83}{(31.35)}$ $\frac{1,281.35}{(31.35)}$ $\frac{1,31.31}{(31.44)}$ $\frac{1,31.43}{(31.44)}$ $\frac{0.00}{(0.00)}$ $\frac{0.00}{(0.00)}$ <t< td=""><td></td><td>Group I</td><td>660.00 (25.62)</td><td>880.00 (34.16)</td><td>1,540.00 (59.78)</td><td>871.20 (33.82)</td><td>82.50 (3.20)</td><td>82.50 (3.20)</td><td>0.00</td><td>0.00 (0.00)</td><td>2,576.20 (100)</td></t<>		Group I	660.00 (25.62)	880.00 (34.16)	1,540.00 (59.78)	871.20 (33.82)	82.50 (3.20)	82.50 (3.20)	0.00	0.00 (0.00)	2,576.20 (100)
Group III         420.00         560.00         980.00         554.40         52.50         60.00         0.00         0.00         0.00         0.00           Average         (25.620         (34.16)         (59.78)         (33.82)         (320)         (320)         (0.00)	MERS	Group II	480.00 (25.62)	640.00 (34.16)	1,120.00 (59.78)	633.60 (33.82)	60.00 (3.20)	60 00 (3 20)	00.00	0.00 (0.00)	1,873.60 (100)
Average         52000         69333         1,213.33         686.40         65.00         65.00         0.00 <td>BORRO</td> <td>Group III</td> <td>420.00 (25.620</td> <td>560.00 (34.16)</td> <td>980.00 (59.78)</td> <td>554.40 (33.82)</td> <td>52.50 (3.20)</td> <td>52.50 (3.20)</td> <td>00.00</td> <td>0.00 (0.00)</td> <td>1,639,40 (100)</td>	BORRO	Group III	420.00 (25.620	560.00 (34.16)	980.00 (59.78)	554.40 (33.82)	52.50 (3.20)	52.50 (3.20)	00.00	0.00 (0.00)	1,639,40 (100)
Group1         0.00         <		Average	520.00 (25.62)	693.33 (34,16)	1,213.33 (59.78)	686.40 (33.82)	65.00 (3.20)	65.00 (3.20)	0.00 (0.00)	0.00	2,029.73 (100)
Group II         437 50         468.75         906.25         495.00         46.88         46.88         66.80         0.00         0.00         0.00           Group II         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           Group III         (29.26)         3.37500         5.5500         3.56400         337.50         337.50         (0.00)         (0.00)           Group III         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)           Average         1,195.83         1,281.25         2,477.08         1,353.00         1,353.00         1,353.00         1,353.00         0.000         0.000         0.000           Average         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           Average         1,195.83         1,281.25         2,477.08         1,333.00         128.13         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)	S	Group I	0.00	0.00)	0.00	0.00	0.00)	0.00	00.00	0.00 (0.00)	0.00 (0.00)
Group III         3.150.00         3.375.00         6.525.00         3.564.00         337.50         337.50         0.00         0.00         0.00           Group III         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)           Average         1,195.83         1,281.25         2,477.08         1,353.00         128.13         128.13         0.000         (0.00)         (0.00)           Average         (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)         (0.00)	ROWER	Group II	437.50 (29.26)	468.75 (31.35)	906.25 (60.62)	495.00 (33.11)	46.88 (3.14)	46.88 (3.14)	00.00	0.00	1,495.00 (100)
Average         1,195,83         1,281.25         2,477.08         1,353.00         128.13         128.13         0.00         0.00           (29.26)         (31.35)         (60.62)         (33.11)         (3.14)         (3.14)         (0.00)         (0.00)	NOB-NC	Group III	3,150.00 (29.26)	3,375.00 (31.35)	6,525.00 (60.62)	3,564.00 (33.11)	337.50 (3.14)	337.50 (3.14)	0.00 (0.00)	0.00	10,764.00 (100)
	N	Average	1,195.83 (29.26)	1,281.25 (31.35)	2,477.08 (60.62)	1,353.00 (33.11)	128.13 (3.14)	128.13 (3.14)	0.00 (00.00)	0.00 (00:00)	4,086.33 (100)

(Incompany)

- 2. 28. Materialized of comparison and and

Fruit crops (Rs.) Seedings (Rs.) Others (Rs.)	Home Sold Home Sold Home Sold Home	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80.00         600.00         60.00         0.00         80.00         467.50           (6.57)         (49.28)         (4.93)         (0.00)         (6.57)         (0.00)         (38.40)	70.00         525.00         52.50 $^0.00$ 70.00         52.50 $^3.20.00$ 70.00 $^3.20.00$ 70.00 $^3.20.00$ $^{3.20.00}$ ^{3.20.00}         ^{3.20.00}	86.67         650.00         65.00         0.00         86.67         0.00         436.67           (7.62)         (57.18)         (5.72)         (0.00)         (7.62)         (0.00)         436.67	0:00         0:00 <th< th=""><th>168.75         312.50         62.50         0.00         62.50         0.00         367.18           (24.83)         (45.98)         (9.20)         (0.00)         (9.20)         (0.00)         (54.02)</th><th>562.50         2.250.00         450.00         450.00         1.900.00           (11.03)         (44.12)         (8.82)         (0.00)         (8.82)         (0.00)         (3.25)</th><th>alterna att att att att att att att att att a</th></th<>	168.75         312.50         62.50         0.00         62.50         0.00         367.18           (24.83)         (45.98)         (9.20)         (0.00)         (9.20)         (0.00)         (54.02)	562.50         2.250.00         450.00         450.00         1.900.00           (11.03)         (44.12)         (8.82)         (0.00)         (8.82)         (0.00)         (3.25)	alterna att att att att att att att att att a
Timber (Rs.) Firewood (Rs.)	Home Sold Home Sold	82.50         0.00         137.50         0.00           (6.12)         (0.00)         (10.20)         (0.00)	147.50         150.00         100.00         0.00           (12.11)         (12.32)         (8.21)         (0.00)	40.00         0.00         87.50         0.00           (4.73)         (0.00)         (10.36)         (0.00)	90.00         50.00         108.33         0.00           (7.92)         (4.40)         (9.53)         (0.00)	0.00 0.00 0.00 0.00 0.00 (0.00) (0.00)	31.25         0.00         42.18         0.00           (4.60)         (0.00)         (6.21)         (0.00)	225 00         950 00         212 50         0 00           (4.41)         (18.63)         (4.17)         (0.00)	AAA 00 18 72 215 22 28 28
	admon	Group I	Group II	Group III	Average	Group I	Group II	Group III	

2 W. Philippin Statement and watered

(and which and party in the first all many in the	Barri (hmily months	ation Trunsportation Chiners Total Expenditure	5570.00 3(835.00 2,112.00 44.977.00 94.865.20 (16.41) (4.04) (2.23) (47.41) (100)	9,297,50 4,463.75 3,156,00 65,714.75 1,25,136.34 (15.42) (3.57) (2.52) (52.51) (100)	0.00 4,485.00 2,400.00 70,125.00 1,47,037.95 71) (3.05) (1.63) (47.69) (.100)	8,342.50         4.261.25         2.556.00         60.272.25         1.22.346.56           (14.99)         (3.48)         (2.09)         (49.26)         (100)	0.00 3,968.75 1,920.00 54,038.75 75,671.25 92) (5.24) (2.54) (71.41) (100)	8.515.63 4.240.63 2.370.00 51.470.00 86.230.66 (21.47) (4.92) (2.75) (39.69) (100)	5.00         4,190.00         2.652.00         51,917.00         1.04,614.78           13)         (4.01)         (2.54)         (49.63)         (100)	19,246.88         4,133.13         2,314.00         52,475.25         88,838.89           (21.66)         (4.65)         (2.60)         (39.07)         (100)
		Household Education Needs	23,460,00 15,570,00 (24,73) (16,41)	38,797,50 19,297,5 (31,00) (15,42)	43,080 00 20,150,00 (29,30) (13.71)	35,112.50 18,342.5 (28.70) (14,99)	24,750,00 23,400,00 (32,71) (30,92)	26,343,75 18,515.62 (30,55) (21,47)	29,250,00 15,825,00 (27,96) (15,13)	26,781,25 19,24 (30,15) (21
		Total	49,888.20 (52.59)	59,421,79 (47,49)	76.912.95 (52.31)	62,074.31 (50.74)	21,632.50 (28,59)	34,760.66 (40.31)	\$2,697.78 (30.37)	36,363.64 (40.93)
a magain		Othern	0.00	0.00 (0.00)	0.00 (0.00)	0.00	00.0	00.0)	0.00 (0.00)	0000)
		Plantateon	2.576.20 (2.72)	(1.50)	1,639.40 (111)	2.029.73 (1.66)	0.00)	1,495.00 (1.73)	10,764.00 (10.29)	4,086 33 (4.60)
THE PARTY IS NOT	Van Parmarapanet uch	Finhery Production	1,092.00 (1.15)	11,634.10 (9.30)	21,640.80 (14.72)	11,455.63 (9.36)	3,972.00 (5.25)	9,624.50 (11.16)	10,679,40	8,091.97 (9.11)
OTHER DESIGNATION.		Ammul Husbandry	38,477.00 (40.56)	31,273,94 (24,99)	27,739/25 (18.87)	32,496.73 (26.56)	11,313.75 ()4,95)	(4,146.72 (16.41)	18,499.88 (17.68)	14.653.45 (16.49)
It's a provide stationardian and to monomerican s million		Agricultural Production	7,743.00 (8.16)	14,640.15 (11.70)	25,893,50 (17,61)	16,092.22 (13.15)	6,346.75 (8.39)	9,494,44	12,754,50 (12,19)	06.152,90
COMES IN		Groups	Group I	Group II	Group III	Average	Group I	Group II	Group III	Average
Same .		0		SMERS	BORRO			SKOWIES	IOR-NON	ı

(righte in the parentneses represents the percentage)

## **PHOTO GALLERY**

Gimpse of respondents' engaged in other activities:



 A view of respondents areca nut and teak plantation at Dhansiripar block



(2) A view of respondents passion fruit plantation at Medziphema block



(ii) Rabbit farming undertaken by respondent at Medziphema block



(4) Jute production by respondent at Dhansiripar block



b) Indigenous indoor bee keeping by respondent at Medziphema block



(6) Indigenous on farm bee keeping by respondent at Medziphema block

penditure incurred was for animal husbandry with an amount of ₹ 32,496.73 156 per cent) for the borrowers and for the non-borrowers, the highest appenditure was incurred for household needs amounting to ₹ 26,781.25 115 per cent).

## In Respondents' annual income

The distribution of respondents' annual income from different sources given in Table 5.31. The findings revealed that the average annual income im different sources was found to be ₹ 1,38,136:10 per respondents for the unovers and ₹ 83,389.81 for the non-borrowers. Of the different sources of nume of the respondents, animal husbandry contributed a major share, on average contributing ₹ 55,371.26 (40.08 per cent) to the borrowers income and ₹28,368.85 (34.02 per cent) to the non-borrowers income. The income was and to increase with the increase in the farm size for the borrowers. Under the non-borrowers category the income was found highest under Group II and size), followed by Group I (marginal size) and then by Group III redum size). On comparison of the findings, the borrowers' income metated from agricultural, animal husbandry and fishery activities was and higher than the non-borrowers in all the cases. This implies that the some generated from agricultural and allied activities was found to have a puttive impact on the borrowers.

## **UD. EMPLOYMENT GENERATED**

The distribution of respondents' employment generated from different multural and allied activities in mandays is given in Table 5.32.1. Under a category of borrowers, the total average number of mandays generated 305.62 mandays, with male employed for 161.64 days (52.89 per cent) and

0	0	SNERS					NOR-BOR	N
Groups	Group I	Group II	Group III	Average	Group I	Group H	Group III	Average
Agricultural Production	4,855.90 (4.90)	11,467.90 (8.36)	30,045.70 (16.87)	15,456.50 (11.19)	1,142.37 (1.32)	6,654.34 (7.15)	7,184.90 (10.14)	4,993.87 (5.99)
Animal Husbandry	55,508.70 (56.01)	54,935.68 (40.05)	55,669.40 (31,25)	55,371.26 (40.08)	25,680.00 (29.77)	33,030.00 (35,50)	26,396,56 (37,26)	28,368.85 (34.02)
Fishery	2,100,00 (2,12)	24,012.50 (17.50)	44,900.00 (25.21)	23,670.83 (17.14)	7,275.00 (8.43)	17,487.50 (18.79)	12,200.00 (17.22)	12,320.83 (14.77)
Forest & Plantation	825.00	750.00 (0.55)	525.00 (0.29)	700.00 (0.51)	0.00	312.50 (0.34)	2,000.00 (2.82)	770.83 (292)
Service	18,000.00 (18.16)	28,275.00 (20.61)	30,900,00 (17.35)	25,725.00 (18.62)	12,750.00 (14.78)	10,875.00 (11.69)	8,250.00 (11.65)	10,625.00 (12.74)
Business	15,720.00 (15,86)	11,430.00 (8.33)	16,080.00 (9.03)	14,410.00 (10.43)	34,050 00 (39.47)	21,375 00 (22.97)	10,762.50 (15.19)	22,062.50 (26.46)
Others	2,100.00 (2.12)	6,307.50 (4.60)	0.00	2,802.50 (2.03)	5,375.00 (6.23)	3,318.75 (3.57)	4,050.00 (5.72)	4,247.91 (5.09)
TOTAL	(001)	1,37,178.60 (100)	1,78,120.10 (100)	1,38,136.10 (100)	86,272.38 (100)	93,053.09 (100)	70,843.97 (100)	83,389.81 (100)

+

a with the theory of the proposition of the proposi

100	Citedia	Group I		E DANO H	Total	Group	BOWERS		Lotal Total
	Ē	Iqu	Group <sup>II</sup>	Group <sup>1]</sup>		da I	Group II	Group II1	
es.	W	(38.00	65.05 (22.92)	109.80 (28.62)	(70.95 23.22)	(26.50 16.87)	(38.28 18.58)	51.90 (19.09)	38.89 (18.38)
Crop production	<b>H</b> )	37.50 (15.03)	53.25 (18.76)	99.40 (25.91)	63.38 (20.74)	24.13 (15.36)	29.03 (14.09)	36.45 (13.41)	29.87 (14.11)
1000	T	75.50 (30.27)	118.30 (41.68)	209.20 (\$4.54)	134.33 (43.95)	50.63 (32.23)	67.31 (32.67)	88.35 (32.50)	68.76 (32.49)
MIL	M	53.50 (21.45)	48.10 (16.95)	36.60 (9.54)	46.07 (15.07)	23.25 (14.80)	28 (3 (13 65)	31.10 (11.44)	27,49 (12.99)
Annual (Indexely)	đ	67,59 (27.10)	43.35 (15.27)	40.59 (10.58)	50.51 (16.53)	25.48 (16.22)	40.51 (19.66)	35.35 (13:00)	33.78 (15.96)
estin.	e	121.09 (48.55)	91.45 (32.22)	77.19 (20.12)	96.58 (31.60)	48,73	68.64 (33.31)	66.45 (24.44)	61.27 (28.95)
	W	1.00 (0.40)	13.40 (4.72)	23.10 (6.02)	12.50 (4.09)	8.13 (5.12)	19.47 (9.45)	21.35	16.31 (7.71)
Futures	ł	00.0)	4.55 (1.60)	21.10 (3.50)	8.55 (2.80)	7.70 (4.90)	9.23 (4.48)	9.18 (3.38)	8.70 (4.11).
	P.	1.00 (0.40)	17.95 (6.32)	44.20 (11.52)	21.05 (6.89)	15.83 (10.08)	28.69 (13.92)	30.53 (11.23)	25,02 (01,82)
	W	6.60 (2.65)	4.18 (1.47)	3.10 (0.81)	463 (151)	000	3,38 (1.64)	29.25 (10.76)	(5,14)
NAME TRANS	A	3.25 (1.30)	1.90 (0.67)	(050) 061	235 (0.77)	0.00	1.80 (0.87)	18.00 (6.62)	6.60 (3.12)
	L.	9.85 (3.95)	.6.08 (2.14)	500 (1.30)	6.98 (2.28)	00.0	\$17 (251)	47.25 (17.38)	17.47 (8.26)
	M	24.00 (9.62)	28.50 (10.04)	30.00 (7.82)	27.50 (9.00)	25.00 (15.92)	23.13 (11.22)	25.00 (9.20)	24.38 (11.52)
Chen	4	18:00 (7.22)	21.56 (7.60)	18.00 (4.69)	19,19 (6,28	16.88 (10.74)	13,13 (6.37)	14,25 (524)	14.75 (6.97)
	н	42.00 (16.84)	50.06 (17.64)	48.00 (12.51)	46.69 (15.28)	41.88 (26.66)	36.25 (17.59)	39.25 (14.44)	39.13 (18.49)
	M	123.10 (49.35)	(56.40)	202.60 (52.82)	161.64 (52.89)	82.88 (52.77)	(12.58) (51.53)	158.60 (58.35)	117.95 (55.73)
Total	144	126.34 (50.65)	124.60 (43.90)	180.99 (47.18)	143.98 (47.11)	74,18 (47,23)	93.69 [45.47]	113.23 (41.65)	93.70 (44.27)
	-	249.44 (100)	283.83 (100)	(001) (001)	305.62 (100)	157.05	206.07 (100)	271.83 (100)	211.65 (100)

(Figure in the parentheses represents the percentage)

M. Male, F-Female, T-Total

	Others Total	M F T M F T	11.20 11.20 2.40 5.50 5.10 10.60 (11.32) (11.32) (22.64) (51.89) (48.11) (100)	1.43         1.44         2.86         5.81         5.75         11.56           (12.32)         (12.43)         (24.76)         (50.27)         (49.73)         (100)	150 1.20 2.70 6.20 5.15 11.35 (13.22) (13.22) (13.27) (23.79) (54.63) (45.37) (100)	1.38         1.28         2.65         5.84         5.33         11.17           (12.31)         (11.45)         (23.76)         (52.26)         (47.74)         (100)	1.25 1.13 2.38 3.25 4.25 7.50 (16.67) (15.00) (31.67) (43.33) (56.67) (100)	1.16 0.88 2.03 4.13 4.30 8.42 (13.73) (10.39) (24.12) (48.98) (51.02) (100)	1.25 0.95 2.20 6.00 5.13 11.13 (11.24) (8.54) (19.78) (5.00 (5.13 (10))	1.22 0.98 2.20 4.46 4.56 9.02
	Plantation	F T	0.50 1.40 (4.72) (13.21)	0.30 0.95 (2.39) (8.22)	0.40 1.20 (3.52) (10.57)	0.40 1.18 (3.58) (10.59)	0.00 0.00 (00,0) (00,0)	0.25 0.81 (2.97) (9.65)	0.95 2.70 (8.54) (24.27) (	21.1 01.0
of the restriction of	Publicity	F T M	0.20 0.30 0.90 (1.89) (2.83) (8.49)	0.90 1.61 0.65 (7.78) (13.95) (5.62)	0.85 1.65 0.80 (7.49) (14.54) (7.05)	0.65 1.19 0.78 (5.82) (10.63) (7.01)	0.38 0.50 0.00 (5.00) (6.67) (0.00)	0.64 1.14 0.56 (7.61) (13.54) (6.68)	0.73 L43 L75 (6.52) (12.81) (15.73)	0.58 1.02 0.77
	andry	T M	(3810 0.10 (3863) (0.94)	<sup>3</sup> .30 0.71 (28.54) (6.16)	$ \begin{array}{c} 3 & 10 \\ (2731) \\ (705) \end{array} $	3.50 0.54 (31.33) (4.81)	2,25 0.13 (30.00) (1.67)	2.19 0.50 (25.97) (5.94)	2.50 0.70 (22.47) (6.29)	231 0.44
solution and the second	Animal Husbundry	MF	) (19.81) (2.00 (18.87)	) (13.84) (14.70)	) (14.10) (13.22)	) (15.81) (15.52)	) (8.33) (21.67)	) (8.16) (17.81)	) (9.44) (13,03)	0.79 , 1.53
fable 3.32.7. Distribution of evolumitant' official providence	Cropping	F T	0 1.20 2.40 (2) (11.32) (22.64)	3 1.41 2.84 (2) (12.22) (24.54)	0 1.20 2.70 (10.57) (23.79)	8 1.27 2.65 (11.38) (23.69)	57) (15.00) (31.67)	2 1.03 2.25 (7) (12.24) (26.72)	s 1.05 2.30 (4) (9.44) (20.67)	4 1.07 2.31
Table # 32.5. Dist	Ciscuttan -	M	Group I (1.20)	Group 1 (12,32)	Group <sup>1</sup> II (13.22) Group <sup>1</sup> II (13.22)	Total (12,31)	Group 1 (155	Croup (14,47)		, 124

(Figure in the parentheses represents the percentage)

M- Male: F- Female; T- Total

imale for 143.98 mandays (47.11 per cent). In the non-borrowers category, werage number of mandays was 211.65 mandays, with male employed for 17.95 mandays (55.73 per cent) and female for 93.70 mandays (44.27 per cent). If the different agricultural activities, crop production was found to generate the highest employment mandays, generating 134.33 mandays (43.95 per cent), with 70.95 male mandays (23.22 per cent) and 63.38 female mandays 174 per cent) for the borrowers, whereas for the non-borrowers it generated 18.76 mandays (32.49 per cent) with 29.87 male mandays (14.11 per cent) and 18.89 female mandays.

The distribution of respondents' employment generated in numbers is inten in Table 5.32.2. The average number of persons employed for the personers was found to be 11.17 per family of which 5.84 (52.26 per cent) male and 5.33 (47.74 per cent) female were employed. The non-borrowers employed 902 persons per family with 4.56 (49.45 per cent) male and 4.56 60.55 per cent) female.

# ED. IMPACT OF CO-OPERATIVE BANK FINANCE ON EMPLOYMENT AND INCOME

Table 5.33 reveals the impact of co-operative bank finance on income end employment. A significant increasing trend on overall group was deerved. The increase in income from crop production was found to be 2027 per cent, animal husbandry with 48.12 per cent, fishery enterprise with 1679 per cent, plantation enterprise with 16.33 per cent and other agriculture end allied activity had increased to 42.55 per cent on the sample respondents ther getting the co-operative bank finance, which was found to be statistically minificant at 1 per cent level during 't' test, except on other enterprises which tas 139 per cent increase and statistically non-significant. Further it showed th such activities could be further explored for generating more income by

~100~

such a survey column bus account on account district assistance for a survey of the

MeanSDMeanSDMean $Mean$ SDMeanSD $Mean$ $14670.83$ $9784.27$ $28279.17$ $2062.34$ $26.27$ $975.33$ $9784.27$ $28279.17$ $21990.56$ $48.12$ $975.33$ $9784.27$ $28279.17$ $21990.56$ $48.12$ $975.33$ $351.35$ $1093.33$ $481.83$ $10.79$ $975.33$ $351.35$ $1313.96$ $521.76$ $16.32$ $975.33$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $342.55$ $1313.96$ $521.76$ $16.32$ $1099.42$ $232.700$ $4112.90$ $239.11$ $1.39$ $20349.38$ $11415.22$ $35422.00$ $24216.08$ $42.55$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $28.86$ $13.74$ $2732$ $70349.38$ $8120$ $2438$ $8.78$ $10.12$ $70349.38$ $8.78$ $13.74$ $2732$ $70349.38$ $13.74$ $2732$ $12.34$ $70349.38$ $8.78$ $9.93$ $13.74$ $70349.38$ $13.74$ $23.74$ $13.74$ </th <th></th> <th></th> <th>Bei</th> <th>Before</th> <th>After</th> <th>let .</th> <th>Ad. Channes</th> <th>101 mars</th>			Bei	Before	After	let .	Ad. Channes	101 mars
Income (₹)         Income	7	Farameters	Mean	SD	Mean	SD	70 Commice	1 (631
Crop Production         3192,50         1218.01         4330.05         2062.34         26.27         26.27           Animal Husbandry         14670.83         9784.27         28279.17         21990.56         48.12         26.27           Animal Husbandry         14670.83         9784.27         28279.17         21990.56         48.12         26.27           Fashery         975.33         351.35         10093.33         481.83         10.799         26.27           Plantation         1099.42         342.55         1315.96         521.76         16.32         26.23           Others         1099.42         342.55         1315.96         521.76         16.32         26.27           Deters         1099.42         342.55         1315.96         521.76         16.32         26.27           Cold         20349.38         11415.22         35422.00         24216.08         42.55         27.32           Employment         212.88         8.120         28.86         39.13         11.31         87.96         42.55           Coop Production         212.88         8.120         28.86         21.34         27.32         27.32           Fenployment         21.28         8.120         2		Income (₹)						
Animal Husbandry         14670.83         9784.27         28279.17         21990.56         48.12         88.12           Fishery         975.33         351.35         1003.33         481.83         10.79         88.12           Plantation         1099.42         342.55         1313.96         521.76         16.32         16.32           Plantation         1099.42         342.55         1313.96         521.76         16.32         16.32           Others         405.54         223.700         411.29         239.11         1.39         16.32           Others         405.54         223.700         411.29         239.11         1.39         16.32           Cobers         405.54         223.700         411.29         239.11         1.39         1.39           Fishory         20349.38         11415.22         35422.00         24216.08         42.55         1.39           Employment         20349.38         11415.22         35422.00         24216.08         42.55         1.35           Employment         212.80         8.120         238.66         91.374         27.32         1.374           Crop Production         21.28         8.120         28.86         91.374	1.12	Crop Production	3192,50		4330.05	2062.34	26.27	4.577963***
Fishery         975.35         351.35         1003.33         481.83         10.79         10.79           Plantation         1099.42         342.55         1313.96         521.76         16.32         16.32           Others         405.54         223.70         411.29         521.76         16.32         16.32           Others         405.54         223.70         411.29         53.911         11.39         1           Total         20349.38         11415.22         35422.00         24216.08         42.55         1           Employment         20349.38         11415.22         35422.00         24216.08         42.55         1           Crop Production         21.28         8.120         28.86         13.74         27.32         1           Animal Husbandry         58.68         39.13         113.11         87.96         45.25         1           Fishery         21.86         9.63         24.38         13.74         27.32         1           Animal Husbandry         58.68         39.13         113.11         87.96         45.25         1           Fishery         21.86         9.63         24.38         8.78         16.12         1         1<		Animal Husbandry	14670.83	9784.27	28279.17	21990.56	48.12	6.702508 **
Plantation         1099.42         342.55         1313.96         521.76         16.32           Others         405.54         223.70         411.29         239.11         1.39           Others         405.54         223.70         411.29         239.11         1.39           Funduction         20349.58         11415.22         35422.00         24216.08         42.55           Employment         21.28         8.120         28.86         13.74         27.32           Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Animal Husbandry         28.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         2.08         15.82           Others         1.05         5.25         2.08         15.82         10.12           Animal Husbandry         8.78         8.78         8.78         10.12         10.12           Fishery         21.35         24.38 <td></td> <td>Fishery</td> <td>62533</td> <td>351.35</td> <td>1093.33</td> <td>481.83</td> <td>10.79</td> <td>3.085567 **</td>		Fishery	62533	351.35	1093.33	481.83	10.79	3.085567 **
Others         405.54         223.70         411.29         239.11         1.39           Total         20349.58         11415.22         35422.00         24216.08         42.55           Empioyment         20349.58         11415.22         35422.00         24216.08         42.55           Empioyment         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         13.74         27.32           Plantation         21.86         9.63         24.38         8.796         45.25           Others         1.62         0.63         24.38         8.796         10.12           Plantation         4.39         1.37         5.25         2.08         15.82           Total         110.39         55.53         170.73         101.21         35.33	1 22	Plantation	1099,42	342.55	1313,96	521.76	16.32	4.156683 **
Total         20349.38         11415.22         35422.00         24216.08         42.55           Employment         20.349.38         11415.22         35422.00         24216.08         42.55           Employment         21.28         8.120         28.86         13.74         27.32           Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Animal Husbandry         28.68         39.13         113.11         87.96         45.25           Plantation         21.86         9.63         24.38         8.796         45.25           Plantation         1.37         5.25         24.38         8.796         10.12           Others         1.62         0.89         1.374         27.32         1           Total         110.39         55.53         170.73         10.21         35.33		Others	405.54	223.70	411.29	239.11	1.39	-2.36075 NS
Employment         Employment         21.28         8.120         28.86         13.74         27.32           Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         8.796         45.25           Plantation         4.39         1.37         52.55         20.8         10.12           Others         1.62         0.89         1.37         5.25         15.82           Total         1.039         55.53         170.73         101.21         35.33		Total	20349.38	11415.22	35422.00	24216.08	42.55	4.94287:**
Crop Production         21.28         8.120         28.86         13.74         27.32           Animal Husbandry         58.68         39.13         113.11         87.96         45.25           Fishery         21.86         9.63         24.38         8.78         10.12           Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         2.08         10.12           Others         1.62         0.89         1.54         0.95         1.582           Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33		Empioyment						
Animal Husbandry         58.68         39.13         113.11         87.96         45.25         45.25           Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         20.8         10.12           Others         1.62         0.89         1.52         2.08         15.82           Total         110.39         55.53         170.73         101.21         35.33		Crop Production	21.28	8.120	28.86	13.74	27.32	5.215270 **
Fishery         21.86         9.63         24.38         8.78         10.12           Plantation         4.39         1.37         5.25         2.08         15.82           Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33		Animal Husbandry	58.68	39.13	113.11	87.96	45.25	5.679833 **
Plantation         4.39         1.37         5.25         2.08         15.82           Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33		Fishery	21.86	9.63	24.38	8.78	10.12	2,260137.**
Others         1.62         0.89         1.64         0.95         1.28           Total         110.39         55.53         170.73         101.21         35.33	1	Plantation	4.39	1.37	5.25	2.08	15.82	3.727963 **
110.39 55.53 170.73 101.21 35.33	-	Others	1.62	0.89	1.64	0.95	1.28	-2.05863 NS
		Total	110.39	55.53	170.73	101.21	35.33	4.156683 **

the farmers. It also showed a significant increase on overall group imployment. Employment from crop production was to have increased to 232 per cent, animal husbandry with 45.25 per cent, fishery enterprise with 232 per cent, plantation enterprise with 15.83 per cent and other agriculture and allied activity has increased to 35.34 per cent on the sample respondents after getting the co-operative bank finance, which was found to be statistical unificant at 1 per cent level during 't' test, except on other enterprise it was a per cent increased with statistically non-significant, further it shows that more potentiality can be explored for generating more emptoyment by the largest in the coming days.

#### **12.RESOURCE USE EFFICIENCY**

Cobb-Douglas Production Functions was used in the present study for the assessment of the resource use efficiency of different enterprises viz., crop moduction, livestock and plantation crops on different farm size groups in the niced area. The production function of different enterprises were fitted as thesing gross return (y),  $x_1$ ,  $x_2$ ,  $x_3$ ,  $x_4$ ,  $x_5$ ,  $x_6$ ,  $x_7$  and  $x_8$  in terms of rupees ( $\stackrel{\textbf{*}}{\phantom{t}}$ ) independent variables on marginal, small and medium farm size groups as well as overall farm size group.

#### 12.1. Resource Productivity

The Ordinary Least Square (O.L.S.) estimates of parameters of Bibb-Douglas type of production with respect to different farm size groups and overall farm size samples are presented in Table 5.34.1 and 5.34.2.

It is clear from the tables that the value of co-efficient of multiple Interminations (R<sup>2</sup>) for beneficiaries ranges from 99.56 per cent (in marginal uzegroup of fam ) to 87.08 per cent (in small size group of fam), and with an overall of 94.76 per cent, which explains the variation in the dependent ratiables by the selected independent variables chosen in the equation in different farm size groups and in overall farms. By aggregating the toss-sectional data of all the farms in various farm size groups under beneficiaries, the value of R<sup>2</sup> in all farm samples was found to be 0.9956, which shows that 99 per cent of the variation of dependent variable is inplained by the independent variation chosen in the equation. Even on the ton-beneficiaries farm size group it was found out to be in the range of 799 per cent to 94.55 per cent with an overall of 99.96 per cent, which shows a good fit of the selected model. The remaining variation of dependent tariable might be due to other variables, which have been used in excess or toproperly used.

The overall regression co-efficient of input a (constant) was found to have positive significant at 1 per cent and 10 per cent level for the teneficiaries and non-beneficiaries respectively, which indicates that the model is a good fit. The negative and non-significant values, indicate that outstant have very little role towards the gross return.

The regression co-efficient of x<sub>1</sub> (human labour cost) for beneficiaries mas found maximum (0.24) on the overall and Minimum on the small size thup (0.19) and was found significant at 10 per cent level of significance, while on marginal and medium size group it was found non-significant. The unt-beneficiaries human labour had significance on the marginal (0.94) and mal (0.96) size group at 10 and 5 per cent level of significance respectively. The non-significant character may mean that it contributes less or that their mile is very less to the return. Even the investment of selected input was found a have negative impact, so it is better to re-allocate the input variables for inder investment and have meaningful contribution with regard to the input investment.

~102~

In case of x<sub>2</sub> (seed/sapling/animal/fingerling cost) it was found to be motive and significant at 10 per cent level of significance in the entire size roup under beneficiaries. x<sub>2</sub> was also found significant under in-beneficiaries in all the group size. It indicates a good fit with more put ntial in comparison to other inputs toward the gross returns.

The regression co-efficient of x<sub>1</sub> (fertilizer) was found to be statistically inficant at 1 per cent level only in medium farm size group (25.75) on the mediciaries, while on the non-beneficiaries, it was found significant on the dium and the overall. The result shows that in comparison to the other size groups, it could be betier utilized on the farm, because of its positive in gaining more net return. While on other farms, its contribution was or may be utilized in excess, which ultimately provides a negative sponse towards the gross return. So it may be concluded that the investment is the medium farm size group may further have more potential after the medium farm size group may further have more potential after the medium or by shifting the other inputs for getting better returns.

The value of x<sub>4</sub> (plant protection) was found to be significant only in the size group under beneficiaries and significant at 10 per cent level of quificance, whereas, it was not found significant in any of the group under some beneficiaries. So it will be better to shift the inputs as an investment to idential areas for getting better prospects as well as returns as compared to therinputs as it contributes little towards the gross return.

The value of xs (machineries) was found to be significant only in the metal group under beneficiaries significant at 1 per cent level, while on the so-beneficiaries, it was found to be significant on the small size group and in the overall group significant at 10 per cent level of significance.

The value of  $x_6$  (transportation) for the beneficiaries was found to be initiatically significant at 10 per cent level in small size and medium farm pup and the overall groups at 1 per cent level of significant, which shows a

~103~

<ul> <li>+-Statientes</li> <li>-3.2E-07<sup>NS</sup></li> <li>-3.2E-07<sup>NS</sup></li> <li>0.660283<sup>NS</sup></li> <li>0.660283<sup>NS</sup></li> <li>1.398279<sup>6</sup></li> <li>1.398279<sup>6</sup></li> <li>1.972674<sup>NS</sup></li> <li>1.435103<sup>NS</sup></li> <li>1.862762<sup>NS</sup></li> </ul>
---

**						0.870789*** (1527.016)				
1-Statistics		1.886113***	2.245466	1.238913*	-0.97768 <sup>NS</sup>	0.204938	-0.1661 <sup>NS</sup>	-0.60436 <sup>NS</sup>	0.378437	-0.0841 <sup>NS</sup>
Regression Co-afficiency		2723.806*** (3.912539)	( <i>161</i> 880.0)	4.847295" (3.912539)	-4.87357 <sup>NS</sup> (4.984829)	53.15255° (259.3595)	-11.1585 <sup>NS</sup> (67.17767)	-1.0825 <sup>NS</sup> (1.791139)	6.654108* (17.58313)	-0.20627 <sup>NS</sup> (2.452675)
Variables		g	x <sub>1</sub>	x <sub>2</sub>	x <sub>3</sub>	X <sub>4</sub>	x <sub>s</sub>	×6	×	x <sub>s</sub>
No.'s of observation	Small farm size group					40				
181	(ii).	l.	2.	3.	4.	5,	6.	7.	8.	.6

R <sup>2</sup>						0.99505*** (849.6419)					
(-Southing		-1.08 H <sup>NS</sup>	0.467673 <sup>NS</sup>	1.145543*	1.693909***	-1.12034 <sup>NS</sup>	-1.36155 <sup>NS</sup> -	6.665657***	1.221153***	1.519061*	
Regression Co-efficiency		-5750.69 <sup>NS</sup> (5319.275)	0.095459 <sup>NS</sup> (0.204114)	7.061947° (6.164715)	25.75573 *** (15.20491)	-103.514 <sup>NS</sup> (92.39518)	-10.6342 <sup>NS</sup> (7.810345)	16.18642 (2.428331)	45.66887*** (37.39815)	4.768853 (3.139343)	and the second s
Variables		es	x1	x <sub>2</sub>	x <sub>3</sub>	X4	x <sub>s</sub>	x <sub>6</sub>	×	×8	
No's of observation	Medium farm size group					10					
NS	(iii).	Ι.	2.	3.	4,	5.	6.	7.	80	9,	

R	A Contraction of the local division of the l					0.947637*** (1787.897)				
P-Straticalco		3.246245***	0 755565*	0.700759*	-0.40085 <sup>NS</sup>	-0.75521 <sup>NS</sup>	2.10777***	<i>"</i> 216965-1	0.685819**	-0.26826 <sup>NS</sup>
Represention Co-efficiency		716.0078***********************************	0.245545 (0.07564)	1.398507° (1.9957(43)	-1.89379 <sup>NS</sup> (4.724446)	-29,5739 <sup>NS</sup> (39,16007)	9.466241*** (4.491117)	2.708045* (1.695795)	10.34837** (15.08908)	-0.38046 <sup>NS</sup> (1.41825)
Variables		æ	×	$\mathbf{x}_2$	*,	,X4	×,	X <sub>6</sub>	×	×8
No'n of abservation	Overall farm size group					60				
82	(iv)	Ĺ	5	3.	4.	5.	6.	7.	8	9.

significant at per cent, againtant a per cent tan againtant at to per cent teres)

د <sup>ع</sup> ا						0.999967*** (16.71651)				
t- Statistics		2.995069***	40.11149*	9,438457**	-0.88892 <sup>NS</sup>	-2.6522 <sup>NS</sup>	-2.26248 <sup>NS</sup>	3.617278***	2.040176***	-0.0121 <sup>NS</sup>
Regression Covefficiency		722.6128*** (241.2675)	0.942542* (0.023498)	1.156315** (0.122511)	-0.6849 <sup>NS</sup> (0.770485)	-7.75261 <sup>NS</sup> (2.923082)	-9,39066 <sup>NS</sup> (4.15061)	12.74165*** (3.522442)	5,209856*** (2,55363)	-5E+15 <sup>NS</sup> (-0.0000231)
Variables	þ	g	x	×2	x <sub>3</sub>	X4	X <sub>5</sub>	X <sub>6</sub>	×	×8
No's of observation	Marginal farm size group					8				
28	(j)	l.	2.	3.	4.	5.	6.	7.	8.	9.

						0.998825*** (66.51042)				
a thinks		2.65377	59.76906**	5.55649	-0.82413 <sup>NS</sup>	1.734635 <sup>NS</sup>	4.675523	2.379517 <sup>NS</sup>	5.008234°	-0.70458 <sup>NS</sup>
Hardenmanness a second the party		261.4756 (98.52987)	0.96716** (0.016182)	1.102792* (0.198469)	-0,57408 <sup>NS</sup> (0,696591)	0.653858 <sup>NS</sup> (0.376943)	1,1719* (0,250646)	0.51656 <sup>NS</sup> (0.217086)	2.994106 <sup>*</sup> (0.597837)	-0.34281 <sup>NS</sup> (0.486553)
- Antimica		ta	x <sub>1</sub>	X <sub>2</sub>	×3	X <sub>4</sub>	X <sub>5</sub>	x <sub>6</sub>	×۲	×s
Notes of Minured matching	Small farm size group	77.5				32				
10.10	(ii).	Π.	2.	3.	4.	5.	6.	7.	QÓ	9.

Medium farm size group					20				
	×	×₁	x <sub>2</sub>	x <sub>3</sub>	X4	×5	×6	× <sub>7</sub>	X8 8
	-2863.69 <sup>NS</sup> (1538.522)	0.203841 <sup>NS</sup> (0.06347)	3.841157** (1.680644)	4.266043° (4.18209)	-41.692 <sup>NS</sup> (33.66562)	-3.62684 <sup>NS</sup> (3.485446)	8.827077*** (1.386537)	11.44018* (13.64558)	4.676801 <sup>NS</sup> (1.143489)
	-1.86133 <sup>NS</sup>	3.211612*	2.285527	1.020074	-1.23842 <sup>NS</sup>	-1.04057 <sup>NS</sup>	6.366275***	0.83838	4.089941 <sup>NS</sup>
					0.945508*** (713.0072)				

Overall farm size group		16.16413*		
	a	(42,62756)	0.379194	
	$\mathbf{x}^{\dagger}$	0.993629 <sup>NS</sup> (0.0084)	118.2938 <sup>NS</sup>	
	*	1 066331* (0.086997)	12.2571*	
	×,	1.036308 (0.166168)	6.236491*	
60	×	0.952754 <sup>N8</sup> (0.267153)	3.566325	0.999662*** (69.96485)
	×3	1.27755* (0.247783)	5.155922*	
	×.	0.21086 <sup>NS</sup> (0.207801)	1.014721 <sup>NS</sup>	
	×,	1.382999° (0.415286)	3.330234	
	×	0.982642 <sup>NS</sup> (0.365714)	2.686917 <sup>NS</sup>	

The significant contribution of the input to the gross returns. Under meneficiaries marginal and medium size group was found significant at 10 runt level of significance.

The value of x7 (marketing cost) was found significant in all the groups also on the overall groups under beneficiaries and non-beneficiaries, and shows a positive significant contribution of the inputs to the gross real. So it will be better to continue the investment on these inputs for rung better prospects as well as benefiting the farmers after reshuffling the real cost.

The value of x<sub>8</sub> (miscellaneous) was found to be significant only in the diam size group and was found statistically significant at 10 per cent level day beneficiaries, while under non-beneficiaries it was non-significant.

## U22. Resource use efficiency

To evaluate how efficiently the farmers of the study area have been doing their resources, the Marginal Value Product (MVP) of an input was impared with its respective factor cost. An optimal use of that factor was used as the ratio approach unity. The value of ratio greater than unity must that returns could be increased by using more of that resource and if out of ratio is less than unity, it indicates improper use of the resources. The inginal value products of a particular resource indicates the expected while of that resource to the gross return caused by an addition of one unit inter resource, while other inputs are held constant. The marginal value reducts of these factors were computed by multiplying the regression reficient of that resource with the geometric mean of gross return to the interimetric mean of each resource. The computed MVP of different strategic unibles is shown in Table 5.35.1 and 5.32.2.

~104~

The value of MVP for x<sub>1</sub> (human labour cost) was found to be positive the entire farm size groups. Under beneficiaries, an addition of one unit of it x input would be adding a value ranging from 4.21 to a maximum of 09, whereas in the non-beneficiaries it would be adding a value in the range 04.55 to 217.61.

The value of MVP for x<sub>2</sub> (seed/sapling/animal/fingerling cost) was und to be positive for all the farm size groups. The value ranges from 17 to 932.56 for the beneficiaries and from 31.79 to 108.51 for mbeneficiaries.

The MVP of x<sub>3</sub> (fertilizer) was found to be positive for medium farm (120.51) and negative for the marginal (-18.83) and the small (-21.52) farm of the beneficiaries. The negative MVP means that addition of one unit of input x<sub>3</sub> would reduce the return ranging from 18.83 to 21.52. Also the WP of x<sub>3</sub> for the non-beneficiaries was found to be positive on medium farm (727.59) and negative on the marginal (-420.76) and small (-182.76) farm is of the beneficiaries.

The MVP of x4 (plant protection) in marginal size and small size was and to be positive and negative for the medium size group and the overall outp of the beneficiaries. Whereas for the non-beneficiaries, the marginal, and medium farm size had a negative value indicating that the addition is unit will reduce the return and only the overall will have a positive value.

The MVP of  $x_5$  (machineri es) of beneficiaries under marginal and intervalue form size groups was found out to have negative values, indicating int addition of one unit of these inputs would decrease the gross return, the the small and the overall group was found to have positive values. The im size groups all had a negative value under non-beneficiaries and only the metal had a positive value. The additional investment of one unit to these

~ 105~

us would be decrease the gross returns and would not contribute their in to the gross return of the farm.

The MVP of  $x_6$  (transportation) in small, medium and overall farm size up under beneficiaries was found to be positive, indicating that addition of unit of this input will increase gross return by 16.83 to 244.00. While the non-beneficiaries, it was found to be positive for all the groups and also the overall groups with value ranging from 1.24 to 70.07.

The MVP of  $x_7$  (marketing cost) was found to be positive on the entire resize groups. Under beneficiaries, an addition of one unit of the  $x_7$  input read be adding a value ranging from 1846.51 to a maximum of 9547.08, reas, in the non-beneficiaries it would be adding a value return in the rest of 3.35 to 1031.55.

The MVP of x8 (miscellaneous) for beneficiaries under marginal, small overall farm size groups was found to be negative, indicating that it ion of one unit of these inputs will decree their gross return, and only medium farm size had a positive value. The marginal and small farm size in non-beneficiaries had a negative value, whereas the medium and the rall groups had a positive value.

The cross-sectional data of overall farm size was aggregated and the im of MVP to its factor cost was computed. It was observed that ratio of to x<sub>8</sub> was found to have positive as well as negative values. Positive value dicates increase return, the greater than unity the higher the gross return duch highlight that the farmers can earned more by investment on those puts for getting better returns, while the negative values indicates either there use of inputs or adverse response towards the gross return, which ends to be curtailed immediately. Further investment of such inputs must be under towards other higher results inputs which will provide a positive attribution to the gross return.

~106~

SN	Variables	Geometric Mean	MVP	MFC	Efficiency
(i).	Marginal farm				
_	<sup>1</sup> x	7712,69	4.21	86	0.04305
2	K <sub>2</sub>	239.363	932.56	23	40.5465
3	x	49,4956	-420.76	22	-19.126
4	X <sub>4</sub>	118.756	7.00E+17	17	4.10E+16
5	×X <sub>5</sub>	406.416	-11576	200	-57,881
9	X <sub>6</sub>	260.841	244.01	4	61.0008
7	x	282 096	49745.2	175	284.258
80	×6	760.037	-7.00E+15	1	-7.00E+15
6	y	6635.75	-450560	24	-18773

	Sciences,	Manufacture of Manager	1444	Const.	
and the second second	Small farm				5
	x1	10404.1	44.86	86	
	x <sub>2</sub>	1146.43	181.77	23	
	x <sub>3</sub>	48.933	-182.76	22	
	X4	305.331	1594.58	11	93.7986
	x <sub>5</sub>	1188.44	-4184.5	200	-20.922
9	X <sub>6</sub>	929,477	-8.12	4	-2.0297
	х <sup>2</sup> .	725.483	1846.51	175	10.5515
	X <sub>8</sub>	795,914	-0.39	1	-0.3868
6	y	16865.6	102143	24	4255.95

a La	Variantee	Christmanne Schwart	11.014	MIC	( inflation of the
(111).	Medium farm				
-	x	14158.1	16.18	86	0.1651
5	x2	1956.09	199.5	23	8.67391
3	x <sub>3</sub>	\$7.1146	727.59	22	33.0727
4	X4	516,804	-2339.4	17	-137.61
5	X5	1953.82	-3004.2	200	-15.021
9	X <sub>6</sub>	1713.19	91.45	4	22 8633
7	<b>x</b> <sub>7</sub>	1248.93	9547.08	175	54.5547
~	X <sub>8</sub>	1289	6.73	1	6.736
6	y	28374.6	-162457	24	-6769

Better Narrahlese	(iv). Overall farm	1 x <sub>1</sub>	2 x <sub>2</sub>	3 x <sub>3</sub>	4 X <sub>4</sub>	5 x <sub>5</sub>	6 x <sub>6</sub>	7 x <sub>7</sub>	8 X <sub>8</sub>	
Construction (14) and		10419.3	965.251	50.306	284.781	1079 68	832 766	678.538	855.905	2. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVVP		45.79	43.47	-58.86	-735.4	2942.42	16.83	2380.3	-0.59	
Select.		86	10	22	17	200	4	175	1	
Contraction of		0.46729	4.34703	-2.6757	-43.259	14.7121	4.20875	13,6017	-0.5913	

25	Variables	Geometric Mean	NIVE	MFC	A.Maiency
(1).	Marginal farm				
-	×1	2757.18	155.52	86	1.58693
13	x <sub>2</sub>	330.073	31.79	23	1.38255
3	x <sub>3</sub>	36.312	-18.84	22	-0,8561
4	X4	98.3419	-170,56	17	-10.033
ŝ	X5	369.376	-2582.4	200	-12.912
9	X <sub>6</sub>	283 641	70.08	4	17.5198
7	×	284.39	1031.55	175	5.89458
00	X8	369.376	-7,00E+15	1	-7.00E+15
6	y	4652.31	19871.9	24	827,994

-Constanting	and the second	2 22052	1.79803	-0.9786	1.15387	2 19731	0 96855	0.05133	-0.6428	408,556
2.05	and the second	86	23	22	17	200	4	175	1	24
antes.		217.61	41.35	-21.52	19.61	439.46	3.87	8.98	-0.64	9805.34
and a straight		4976.64	583.298	36.2255	95.5636	762.246	550.167	564.656	773,486	8418.94
anitation of	Small farm	x, ix	x <sub>2</sub>	x <sub>3</sub>	X4	x <sub>5</sub>	X <sub>6</sub>	×ج	. X <sub>8</sub>	y
-	(II).	1	2	3	4	5	9	7	00	6

7772.0534.55980.35256919.278108.51234.71794919.278108.51238.7179478.0913120.52235.4779978.0913120.52225.4779978.0913120.52225.4779988.9051-942.2417-55.42688.9051-942.2417-55.42698.9051-942.2417-51.229963.28949.87412.4682963.28949.87412.4682963.43925.851750.147741284.396.61.155.74433134522-808992424-3370.8	Sciences of the Science	NAME	1500.0	ACTIVATION NO
34.55     98       34.55     98       108.51     23       108.51     23       120.52     22       120.52     22       -942.24     17       -942.24     17       -942.24     17       98     -1024.6       200     200       987     4       987     4       987     175       987     175       987     175       988     175       988     175       988     175       988     175				
108.51     23       120.52     22       120.52     22       -942.24     17       -942.24     17       -1024.6     200       -1024.6     200       -1024.6     17       6.6     1.15       -80899     24	7772.05	34.55	86	0.35256
120.52     22       -942.24     17       -942.24     17       -1024.6     200       -1024.6     200       -1024.6     200       -1024.6     17       -25.85     175       6.6     1.15       -80899     24	919.278	108.51	23	4.71794
-942:24     17       -1024.6     200       -1024.6     200       49.87     4       25.85     175       6.6     1.15       -80899     24	78.0913	120.52	22	5.47799
-1024.6     200       49.87     4       49.87     4       25.85     175       6.6     1.15       .80899     24	88.9051	-942.24	17	-55.426
49.87     4       49.87     4       25.85     175       6.6     1.15       -80899     24	1284.39	-1024.6	200	-5.1229
25.85 175 6.6 1.15 -80899 24	963.289	49.87	4	12.4682
6.6 1.15 -80899 24	967.87	25.85	175	0.14774
-80899 24	1284.39	6.6	1.15	5.74433
	13452.2	66808-	24	-3370.8

Account     Account     Account     Account     Account       5336.71     185.31     100     100       5336.71     185.31     100     33.14     23       629.176     33.14     23     23       93.6476     23.69     17     22       93.6476     23.69     17     200       823.528     397.11     200     4       607.041     1.25     4     4       607.041     1.25     175     175       829.983     1.47     1.1     200       829.983     1.47     1.1     24	2	(iv), (	-	2	3	4	s	9	7	~	6
185.31     100       185.31     100       33.14     23       33.14     23       32.21     23       32.21     22       32.21     22       32.21     22       32.21     22       32.21     22       32.21     22       37.11     200       37.11     200       37.11     200       335     175       1.17     11       407.41     1.1	Value inte	Overall farm		x <sub>2</sub>	X <sub>3</sub>	X4	X <sub>5</sub>	X <sub>6</sub>	x,	X <sub>6</sub>	y
100       23       23       23       23       23       23       23       23       23       23       23       23       23       23       23       24       11       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17       17	Chrystenstein Physics	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	5336.71	921 629	46.8111	93.6476	823.528	607.041	616 707	829.983	9094.06
	terr.		185.31	33.14	32.21	23.69	397.11	1.25	3.35	1.47	497.41
1.85312 1.85312 1.44109 1.46418 1.39364 1.39364 1.39364 0.31133 0.31133 0.31133 1.33282 1.33282	- States 1		100	23	22	17	200	4	175	1.1	24
	A DESERVICE AND A		1.85312	1.44109	1 46418	1.39364	1 98553	0.31133	0.01916	1.33282	20.7255

The second second

The above result showed that none of the resources were used with numum efficiency since MVP to factor cost ratio was not equal to unity. It other need shift of input variables for getting better prospects from the same instment of inputs.

### **BARTATUS OF BANK LOAN RECEIVED BY THE BORROWERS**

### 1. Loan received

The distribution of loan received by the borrowers is given in Table Under Group I (Marginal farm size) there are ten (10) loanees who took for animal husbandry. Under Group II (Small size) there are 3 borrowers agriculture, 15 for fishery and 22 for animal husbandry. Under Group III Midium Size) there are 4 agricultural loanees, 5 fishery loanees and 1 animal moundry loanee. Categorizing the loanees under different enterprise, the toimum amount disbursed per loanee was found highest under animal moundry with an average amount of  $\gtrless$  63,969.70, followed by agriculture  $\oiint$  57,685.71 and then by Fishery with  $\gtrless$  48,890.

### 132. Repayment performance of the borrowers

The distribution of the borrowers' loan repayment is given in the 5.37. The findings revealed that the borrowers as a whole borrowed an nount of ₹ 34,92,600, with an additional interest amount of ₹ 4,19,112. The that amount due for repayment was found to be ₹ 39,11,712, out of which 14,71,000 (37.61 per cent) was paid and with a balance of ₹ 24,40,712.00 139 per cent). Across the different Groups, Group I have a balance of 14 per cent, Group II with 63.64 per cent and Group III with 64.38 per cent. 14 per cent, Group II with 63.64 per cent and Group III with 64.38 per cent.

~107~

Agriculture     Fishery       Amount (in ₹)     Nos     Amount (in ₹)       Amount (in ₹)     Nos     Amount (in ₹)       000     0     0       1.86,300     15     7,01,400       1.86,300     15     7,01,400       2,17,500     5     2,76,400       6,23)     5     2,76,400       4,03,800     5     2,76,400       (11,56)     20     9,77,800       57,685.71     48,890		Nos.	10	22 14,18,300 (40.61)	1 72,600 (2.08)	33 21,11,000 (60.44)	63,969.70
Agriculture Amount (in ₹) (in ₹) (0 00) (0 00) (5.33) (5.33) (5.33) (5.33) (5.33) (5.23) (5.23) (11.56) (11.56) (11.56)	1				2,76,400 (7.91)	9,77,800 (28.00)	48,890
	iculture						685.71
Sample 5 Size 10 10 10 1		Nos.	0	m	4	7	51,

1 hourse	-					
ent	Not Paid	1 (1.67)	7 (11 67)	1 (1.67)	9 (15.00)	
Mode of payment	Partial	(00°51) 6	31 (51.67)	9 (15.00)	49 (81.67)	
Mon	Paid	00.0)	2 (3.33)	0000)	(3.33)	
Balance	(in ₹)	3,88,512 (55.94)	16,43,720 (63.64)	4,08,480 (64.38)	24,40,712 (62.39)	
Amount paid	(in ?)	3,06,000 (44,06)	9,39,000 (36,36)	2,26,000 (35.62)	14,71,000 (37.61)	(Figure in the parentheses represents the percentage)
Interest	Amount (in ₹)	74,412 (10.71)	2,76,720 (10.71)	67,980 (10.71)	4,19,112 (10.71)	neses represent
Aniount	Borrowed (in ?)	6,20,100 (89.29)	23,06,000 (89.29)	5,66,500 (89.29)	34,92,600 (89.29)	e in the parentl
Interest	rate	12	77	2	12	(Figur
Amount to be	retpa⊮d (in ₹)	6,94,512.00 (100.00)	25,82,720 (100.00)	6,34,480 (100.00)	39,11,712 (100.00)	
Sample	Size	10 (16.67)	40 (66.67)	10 (16.67)	(001) 09	
	Croups	Group I	Group II	Group III	Total	
1	-					-

with 81.67 per cent. The balance due for repayment was found to increase with the increase in the farm size, which indicates that, the marginal farmers in found better in repayment of loan than the small and medium size unmers.

### 113. Borrowers utilization of bank loan

The nature of utilization of bank loan for which it has been sanctioned it is given in Table 5.38.1 and 5.38.2. The overall utilization of the bank loan it which it was sanctioned was found out to be 41.70 per cent; the remaining its used for other productive uses on the farm (14.52 per cent) as well as im-productive uses for home consumption (43.78 per cent). Apart from the small usage, the maximum funds were diverted towards household insumption needs which accounts for 33.13 per cent of the total loan. Under the different categories of borrowers, Group 1 utilized 46.28 per cent for the cinal loan purpose, 2.82 for other productive purpose and 50.90 per cent for in-productive uses. Group II utilized 40.78 per cent for the loan purpose, it52 per cent for other productive uses and 43.70 per cent for non-productive uses. Group III utilized 40.42 per cent for the actual loan purpose, 23.25 per un for other productive uses and 36.33 per cent for non-productive uses. The impose utilization of bank loan was found better in Group I (46.28 per cent), unwed by Group II (40.72 per cent) and then by Group III (40.42 per cent).

1	Toon Dumont	Amount	Actually		otho	Other Productive Uses	Lines .			Non-Productive Lines	19-11 9-51)	
	Coan rupose	Loaned	Utilized	Agnoutural	Fishery	Animuls	Plantation	Total	Household Needs	Education	Others	Total
	Agriculture	(0.00)	0 (00:0)	0.00)	0(00.0)	0 (00.0)	0(00)	0 (00.0)	0 (00)	0.00)	0 (00)	0 00)
	Fishery	0(000)	0(00)	0 (00.0)	0 (00.0)	0000)	00(0)	0(000)	0 (00 0)	0(00/0)	0(00.0)	0(0.00)
dnoug	Animal Husbandry	6,20,100 (100)	2,87,000 (46.28)	4,500 (0.73)	6,000	5,000 (0.81)	2,000 (0.32)	17,500 (2.82)	2,53,600 (40.90)	38,000 (6.13)	24,000 (3.87)	3,15,600 (50.90)
	Total	6.20,100 (100)	2,87,000 (46,28)	4,500 (0.73)	6,000 (0.97)	5,000 (0.81)	2,000 (0.32)	17,500 (2.82)	2.53,600 (40.90)	38,000 (6.13)	24,000 (3.87)	3.15.600 (50.90)
	Agriculture	1,86,300 (100)	20,500 (11 00)	0 (0.00)	1,500 (0.81)	1,15,000 (61.73)	0 00)	1,16,500 (62.53)	36,000 (19.32)	10,000 (5.37)	3,300 (1.77)	49,300 (26,46)
	Fishery	7,01,400 (100)	2,86,000 (40,78)	29,500 (4.21)	0(00:0)	34,500 (4.92)	1,500 (0.21)	(9.34)	2,31,400 (32,99)	77,000 (10.98)	41,500 (5.92)	3,49,900 (49,89)
Group	Am <sup>mal</sup> Husbandry	14,18,300	6.34,000 (44.70)	39,000 (2.75)	37,800 (2.67)	90,000 (6.35)	9,000 (0.63)	L.75,800 (12,40)	4,84,000 (34,13)	87,000 (6.13)	37,500 (2.64)	6,08,500 (42.90)
1	Total	23,06,000 (100)	9,40,500 (40.78)	68.500 (2.97)	39,300 (1.70)	2,39,500 (10.39)	10,500 (0.46)	3,57,800 (15,52)	7,51,400 (32,58)	1,74,000 (7.55)	82,300 (3.57)	10,07,700 (43.70)
	Agriculture	2,17,500 (100)	65,000 (29,89)	0(0.0)	27,000 (12.41)	35,000 (16.09)	0(00)	62,000 (28.51)	69,000 (31.72)	14,000 (6.44)	7,500 (3.45)	90,500 (41.61)
Шd	Fishery	2,76,400 (100)	(47,03)	18,200 (6.58)	0(000)	29,500 (10.67)	2,000 (0.72)	49,700 (17.98)	73,000 (26.41)	17,200 (6,22)	6,500 (2.35)	96,700 (34,99)
-	Animal Husbandry	72,600 (100)	34,000 (46.83)	5,000 (6.89)	0(000)	15,000 (20.66)	0(000)	20,000 (27.55)	10,000 - (13.77)	5,000 (6.89)	3,600 (4.96)	18,600 (25,62)
	Total	5,66,500 (100)	2,29,000 (40,42)	23,200 (4.10)	27,000 (4.77)	79,500 (14.03)	2,000 (0.35)	1,31,700 (23.25)	1,52,000 (26.83)	36,200 (6.39)	17,600 (3.11)	2,05,800

ALC: NO.

AND A DESCRIPTION OF DESCRIPTION OF A DE

					Other Prod	Other Productive Uses (on farm)	(on farm)		Non	Non-Productive Uses (home use)	lacs (homo i	ISC)
2	Loun Purpose	Loaned	Utilized	Agricultural	Fishery	Animals	Plantation	Total	Household Needs	Education	Others	Total
	Agriculture	4,03,800 (100)	85,500 (21.17)	0(00)	28,500 (7.06)	1,50,000	0(00.0)	1,78,500 (44,21)	1,05,000 (26.00)	24,000 (5.94)	10,800 (2.67)	1,39,800 (34,62)
Ter	Fishery	(001)	4,16,000 (42.54)	47,700 (4,88)	0(00.0)	64,000 (6.53)	3,500	1,15,200 (11,78)	3,04,400 (31.13)	94,200 (9.63)	48,000 (4.91)	4,46,600 (45.67)
юŢ	Animal Husbandry	21,11,000 (100)	9,55,000 (45,24)	48,500 (2.30)	43,800 (2.07)	1,10,000 (5.21)	11,000 (0.52)	2,13,300 (10.10)	7,47,600 (35,41)	1,30,000 (6.16)	65,100 (3.08)	9,42,700 (44.66)
	Total	34,92,600 (100)	14,56,500 (41.70)	96,200 (2.75)	72,300 (2.07)	3,24,000 (9.28)	14,500 (0.42)	5,07,000 (14,52)	11,57,000 (33.13)	2,48,200 (7.11)	1,23,900 (3.55)	15,29,100 (43.78)

(Figure in the parentheses represents the percentage)

### **III. PROBLEMS FACED BY THE BORROWERS**

### 14.1. Problems faced in utilization of bank loans

The problem faced by the respondents in utilizing bank loan is given in Table 5.39. The highest incidence of problem faced in utilization of the loan is found to be the time of disbursement of bank loans, with 60 (100 per cent) repondents facing such problems, followed by problems faced in foursement of loan (instalment release) faced by 33 respondents for percent), other needs (46.67 per cent) and the amount (21.67 per cent).

### 114.2 Problems faced in acquiring bank loans

The problems faced by the borrowers in acquiring loans are given in lible 5.40. The highest problem faced was getting a Guarantor/ Securities/ cetificates was faced by 60 respondents (100 per cent), followed by guidance povided by the bank, faced by 71.67 per cent, bank process faced by 66.67 per ent, form issued by the bank faced by 60 per cent, knowledge about type of an faced by 51.67 per cent, filling up of forms faced by 48.33 per cent and inwledge about banks faced by 38.33 per cent.

## 111.3. Other problems faced by the respondents

The other related problem faced by the respondents is given in table 5.41. The highest incidence faced by the respondents was with the upervision and also other ag,ricultural and allied problems faced by 100 per ent each, followed by interest rates faced by 81.67 per cent, funds & capital used by 80 per cent, knowledge & skill problem faced by 76.67 per cent and ther problems viz., transportation, bank knowledge, repayment period, uset-pest & diseases and marketing.

~109~

Concession of

The same with some same as

Size         Faced         Not Faced         Faced         Faced         Faced           10         1         9         6         4         10           40         8         32         23         17         40           10         4         6         4         10         10           10         4         5         23         17         40           10         4         6         1         6         10		Sample		and a second sec	NAME AND A	CANES STRANGED TO THE CONTROL		And a state of the	CHICLI MCCO	
10     1     9     6     4       40     8     32     23     17       10     4     6     34     6	uroups	Size	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced
40 8 32 23 17 10 4 6 4 6	Group 1	10			ø	.4	10	0	3	7
10 4 6	Group II	40	80		23	11	40	0	17	23
	Group III	10	4	9	7	9	01	0	80	3
Total         60         13         47         33         27         60           (100)         (21.67)         (78.33)         (55.00)         (45.00)         (100)         (100)	Total	60 (100)	13 (21.67)	47 (78.33)	33 (55.00)	27 (45.00)	(001) 09	00(0)	28 (46,67)	32 (53.33)

rotation         Faced         Not Faced         Faced         Not Faced         Faced         Not Faced         Faced         Not Faced         Not Faced         Not Faced         Faced         Not Faced	Group-f	On	Group-1	Gro	Group-II	Grot	Group-III	E	Total
	Problems	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced
6 $4$ $29$ $11$ $8$ $2$ $11$ $8$ $2$ $11$ $667$ $(48.33)$ $(18.33)$ $(13.33)$ $(3.33)$ $(71.67)$ $7$ $7$ $3$ $27$ $(48.33)$ $(18.33)$ $(13.33)$ $(3.33)$ $(71.67)$ $7$ $(7)$ $(500)$ $(45.00)$ $(45.00)$ $(21.67)$ $(10.00)$ $(667)$ $(490)$ $1$ $(11.67)$ $(500)$ $(45.00)$ $(21.67)$ $(10.00)$ $(600)$ $(600)$ $1$ $(11.67)$ $(500)$ $(500)$ $(500)$ $(3000)$ $(10.00)$ $(600)$ $(600)$ $8$ $3$ $3$ $3333$ $(11.67)$ $(33333)$ $(11.67)$ $(3333)$ $(3333)$ $(3333)$ $(350)$ $(6000)$ $8$ $3$ $5$ $5$ $5$ $3$ $3$ $3$ $8$ $5$ $5$ $3333$ $(11.67)$ $(3333)$ $(3333)$ $(31.67)$ </td <td>Guarantor/ Securities/ Certificates</td> <td>10 (16.67)</td> <td>0 (0.00)</td> <td>40 (66.67)</td> <td>00(0)</td> <td>10 (16.67)</td> <td>0.00)</td> <td>60 (100)</td> <td>0 (00 0)</td>	Guarantor/ Securities/ Certificates	10 (16.67)	0 (0.00)	40 (66.67)	00(0)	10 (16.67)	0.00)	60 (100)	0 (00 0)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Guidance from bank	6 ( <u>1</u> 0.00)	4 (6.67)	29 (48.33)	11 (18.33)	8 (13.33)	2 (3.33)	43 (71.67)	17 (28.33)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bank process	7 (11.67)	3 (5,00)	27 (45.00)	13 (21.67)	6 (10.00)	4 (6.67)	40 (66.67)	20 (33.33)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Form issued by the bank	7 (11.67)	3 (5.00)	22 (36.67)	18 (30,00)	7 (11.67)	3 (5.00)	36 (60.00)	24 (40.00)
5         5         17         23         7         3         29           (8.33)         (8.33)         (28.33)         (38.33)         (38.33)         (11.67)         (5.00)         (48.33)           4         6         13         27         6         4         23         (48.33)           (6.67)         (10.00)         (21.67)         (45.00)         (10.00)         (5.67)         (38.33)	Knowledge about type of loan	3 (5,00)	(11.67)	20 (33.33)	20 (33.33)	8 (13.33)	2 (3.33)	31 (51.67)	29 (48.33)
4         6         13         27         6         4         23           (6.67)         (10.00)         (21.67)         (45.00)         (10.00)         (38.33)	Filling up of forms	5 (8.33)	5 (8,33)	17 (28.33)	23 (38.33)	7 (11.67)	3 (5.00)	29 (48.33)	31 (51.67)
	Knowledge about banks	4 (6.67)	6 (10:00)	13 (21.67)	27 (45.00)	6 (10.00)	4 (6.67)	23 (38.33)	37 (61.67)

	Con	Genut	Cuit	100	-	The second s		
Problems	5	value	CIO	oroup-11	CITO	Croup-Iti	T	Total
	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced	Faced	Not Faced
Supervision	10 (16.67)	0 (00:0)	40 (66.67)	00(0)	10 (16.67)	0(000)	(00)	0 (0.00)
Others	10 (16.67)	00(0)	40 (66.67)	0 (000)	10 (16.67)	0000)	60.	0 (00.00)
Interest rates	7 (11.67)	3 (5.00)	33 (55.00)	7 (11.67)	9 (15.00)	1 (1.67)	49 (81.67)	(18.33)
Funds & capital	8 (13.33)	2 (3.33)	32 (53.33)	8 (13.33)	8 (13.33)	2 (3.33)	48 (80.00)	12 (20.00)
Knowledge & Skill	7 (11.67)	3 (5.00)	34 (56.67)	6 (10.00)	5 (8.33)	5 (8.33)	46 (76.67)	14 (23.33)
Transportation	6 (10:00)	4 (6.67)	24 (40.00)	16 (26.67)	(11.67) 7	3 (5.00)	37 (61.67)	23 (38.33)
Bank Knowledge	3 (5,00)	(11.67) 7	20 (33.33)	20 (33.33)	8 (13.33)	2 (3.33)	31 (51.67)	29 (48.33)
Repayment period	5 (8.33)	5 (8.33)	19 (31.67)	21 (35.00)	4 (6.67)	6 (10.00)	28 (46.67)	32 (53.33)
Insects-pest & diseases	2 (3.33)	8 (13.33)	19 (31.67)	21 (35.00)	4 (6.67)	6 (10:00)	25 (41.67)	35 (58.33)
Marketing	5 (8.33)	5 (8.33)	16 (26.67)	24 (40.00)	2 (3.33)	8 (13.33)	23 (38.33)	37 (61.67)
		(Figure III	the parenthes	the parentheses represents the percentage	percentage)			

Table 5.41, Other problems faced by the

## 14.4 Ranking of constraints faced by the borrowers

Table 5.42 reveals that respondents were facing many constraints during equisition of bank loan from co-operative bank. Amount of loan was the increase challenge to the borrowers and has been ranked as the most encived constraint with a RBQ 33.33, followed by preparation of DPR RBQ 30.67), lack of technical guidance from bank (RBQ 30.00), time of libbursement (RBQ 28.33) were highly ranked constraints reported by the uspondents. On the other hand, subsidiary/ rebate on loan (RBQ 20.00), fibursement of loan (RBQ 14.67), credit facilities and miscellaneous RBQ 12.00), form issued by the bank (RBQ 11.00), knowledge about type of the (RBQ 9.00), bank interest rate (RBQ 8.00), filling up of loan forms RBQ 5.33), repayment period (RBQ 4.67) were perceived as constraints of noperative bank finance, but on a lower scale.

### 5. PROBLEMS FACED BY THE BANK(ERS)

The following problems were faced by the bankers in financing moultural and allied activities.

### 15.1 Repayment/ Overdues

The foremost important problem faced by the bankers in general was existence of high overdues. This was caused by non-repayment of dues. Not of the borrowers were not sincere in repaying their dues, and this has unsed stagnation in lending for further developmental activities and others upiring beneficiaries wanting to take loan. Table 5.42. Ranking of constraints faced by the borrowers during acquisition of co-operative bank finance

				Ranks			10 M M	ALLO 2004 - 100
	Constraints	1	11	111	IV	V	N. 15: 42	CVCFall Rank
	Amount of loan	20	12	11	14	3	33.33	Ι
	Disbursement of loan	Ш	18	8	18	5	14.67	IV
	Time of disbursement	17	12	11	6	11	28.33	IV
	Credit facilities	12	23	8	3	14	12.00	IIV
	Technical guidance from bank	18	15	14	11	2	30.00	III
	Bank loan formalities	12	13	6	11	15	12.00	IIA
-	Form issued by the bank	11	16	12	10	11	11.00	VIII
	Knowledge about type of loan	6	11	Ш	21	8	00'6	IX
	Filling up of loan forms	8	6	14	22	7	5.33	ШΧ
	Repayment Period	7	7	12	24	10	4.67	XIII
	Bank interest rate	8	9	21	18	7	8.00	X
	Preparation of DPR	23	5	17	6	6	30.67	П
-	Subsidiary / rebate on loan	15	. 12	16	6	8	20.00	N
	Guarantor / securities required	6	11	15	11	14	6.00	IX
	Miscellaneous	12	14	13	13	80	12.00	ΝΠ

### us.2 Distance and Supervision

The co-operative bank in general gives financial assistance to people on all walks of life, even financing to the remote ateas and other localities, if which has caused supervision problems due to poor connectivity and the stance between the bank branch and the loanees. Bank related information at needs to be passed to them (farmers) gets delayed. Also, the distance has used the problems in imparting training to them.

### 15.3. Uneven distribution of borrowers

The bankers also face uneven distribution of borrowers which has led to apervision problems. Though they have come up with the idea of group mowing and area approach system for better supervision yet, the problems at not always solved as there are no respondents from the target area while here are individuals who want loan are not from the target groups/area.

## 154. Unfaithful nature and misulilization of funds by the borrowers

It has also been found that there are borrowers who are unfaithful ards supervision officials especially when the official/staff goes for utuating the projects of the borrowers. The problem is such that the banker disit difficult to evaluate the actual benefits or significance of bank loans to borrowers as they divert the loan to other activities or towards mumption purposes. The misutilization of bank loan in the study may not due to lack/inadequate funds but due to unfaithful nature of the unowers. Misutilization of the funds allotted to them is one of the major mos leading to problems of non-repayment of the dues on time.

### 15.5. Untimely submission of form

The bankers also observed that borrowers submitted their loan proposal ine. If the loan is sanctioned to these borrowers, there may be a possibility of inversion of the loan. There is also a chance of repayment problem as the loan sinctioned may not be able to generate returns to repay the installment on due inte. Thus, the bankers face the problem of advancing the loans in odd times.

### \$15.6. Human resource and Logistic support

One of the main reasons why co-operatives bank are lacking in the slate a due to lack of human resources. Lack of manpower has limited the bank's opansion as well as supervision. Due to limited bank branches more areas his to be covered by a bank branch in that locality, this has caused work load on the bankers especially on the limited field staff who has to cover more mas/villages. The limited bank staff that are work loaded with are faced with poor or lack of logistic support and poor communication to do their works efficiently.

### 515.7. Productivity

Apart from misutilization and diversion of loans for other uses, the use of modern technology in the farming system is lacking which reduces their productivity. The farmers neither are ready to participate in trainings on modern means of farming nor are willing to use modern technology in the farming system.

## CHAPTER-VI

# SUMMARY & CONCLUSION

## CHAPTER - VI

## SUMMARY & CONCLUSION

Agriculture is the mainstay of Indian economy not only in terms of antribution to the gross domestic product but also the people dependent non it. In the last few years, the Indian economy has emerged as one of the fastest growing economies in the world. Many economist and policy wakers believe that the future growth of the domestic economy, to a large otent, will depend on the robust performance of the agricultural and rural world. The manufacturing and service sectors cannot sustain the economy's growth if the rural sector underperforms.

The role of banks in rural upliftment and the effectiveness of banks is a tool for socio-economic, and over all development of the rural people consists of a broad spectrum. The success or failures of any enterprises depends to a large extend on availability of finance.

The contribution of the banking and financial sector to the current conomic growth of the Indian economy is very significant. However, the itess of banking services to the rural, agriculture and the common man in pineral is not as promising. In India, the focus of the financial inclusion at resent is more or less confined to ensuring a bare minimum access to a avings bank account without frills to all. The rural population in India infers from a great deal of indebtedness and is subject to exploitation in he credit market due to high interest rates and the lack of convenient access to credit. Rural households need credit for investing in agriculture ind smoothening out seasonal fluctuations in earnings. Since cash flows ind savings in rural areas for the majority of households are small, rural inscholds typically tend to rely on credit for other consumption needs like education, food, housing, household functions, etc. Rural households red access to financial institutions that can provide them with credit at ower rates and at reasonable terms than the traditional money-lenders and hereby, help them avoid debt-traps that are common in rural India.

Micro finance is a broad term that includes deposits, loans, payment ervices and insurances to poor. A success indicator of micro finance lies in a credit-plus' approach, where the focus has not only been on providing andit, but to integrate it with other development activities. One such agency that provides micro finance is the co-operative bank. A co-operative tunk is a financial entity which belongs to its members, who are at the une time, the owners and the customers of their bank.

Agriculture along with livestock rearing and other allied agricultural activities is a common aspect seen in most tribal houses of India and plays in important part, especially in the lives of the North-Eastern Hill Region people. Since agricultural operations are seasonal, family labour may become ideal, leading to decreased labour efficiency and unemployment problems. Agriculture and allied activities helps to supplement the farm income as well as utilizes the surplus resources of the farm. To remove or impress such problems, one important measure is financing them to take impress through banking sectors.

Although a few studies on macro aspects of agricultural credit have been undertaken, yet specific studies to highlight the status of agricultural fnance in the Northeastern India is lacking.

The broad objective of the study is to examine the magnitude of financing made by Co-operative Bank on Agricultural and Allied activities and the impact on the borrowers in promoting productivity, income generation and the employment generated in the study area. Also, to ansider the broad based impact of credit on production potential and all mund development of rural people, the present study entitled," A study on Co-operative Bank in financing agricultural and allied activities with special reference to Dimapur district of Nagaland" has been undertaken furing the year 2010-12.

## **A1 SUMMARY OF THE FINDINGS**

### 1.1. Status of bank network in Nagaland

The findings on the status of bank branch showed that as on March 2012, there are 19 Commercial Banks with 93 branches, Regional Rural Bank with 9 branches and 1 Co-operative Bank with I branches with a total of 123 bank branches operating in Nagaland. At present there are 52 bank branches located in rural areas and 71 in Remi-urban areas. Data showed that there is a least growth in the bank branches in the past few years. The current network of banking in the state is however far from being adequate. Out of the 74 Development Blocks in Nagaland, 32 Blocks are still un-banked. The people living in the un-banked areas have to travel a long way to the nearest banks. The bank branches failed to reach the areas where they are needed the most, the rural areas. Most of the Banks are situate in the commercial hubs like Dimapur, Kohima, Mokokchung and Wokha.

The status of loan and advances from NABARD in Nagaland over the past years showed that there was an increase in the overall growth rate from 10.34 per cent in 2010-11 to 16.10 in 2011-12. The major share of advances during the year 2011-12 was released to the Commercial Banks followed by the RRB and then the SCB. The agency-wise break-up indicates that the SCB has the highest growth rate of 59.79 per cent.

As on March 2012, the aggregate deposits showed an increased growth rate of 64.08 per cent from 24.37 per cent in 2010-11, with RRB having the highest growth rate of 36.41 per cent.

The Credit-Deposit (CD) ratio of all the banks as on March 2012 showed an increase from 27.79 during 2010-11 to 28.28. Bank-wise analysis revealed that only the SCB has an increase in the CD ratio to 36.24 from 25.80 during 2010-11. On analysing the table the SCB has the highest credit deposit growth rate of 40.46 per cent. This indicates that the SCB had performed better than their counterpart in terms of bank credits and deposits.

The Annual Credit Plan for the entire bank in Nagaland was estimated to the tune of  $\gtrless$  32,479.32 lakhs during the year 2011-12, for the disbursement to the priority sector. The overall flow of the credit during the year 2011-12 showed that the credit plan for Agri and Allied sector had increased, while Other sector and Industries was seen to have decreased.

A total of 16,800 numbers of Kisan Credit Card were fixed under the Annual Credit Plan (2011-12) of which the highest achievement was made by the CBs whose achievement percentage was 59.71 per cent, followed by the SCB with 51.06 per cent achievement and the RRB with only 21.71 per cent achievement. The overall achievement was found out to be 55.40 per cent which is only half the mark of the total sanction amount and numbers.

NABARD refinance support for meeting investment credit of banks during the year 2011-12 showed that of the total amount 81 per cent (7 500 lakhs) was refinanced to the SCB and the other 19 per cent (7 115.04 lakhs) was refinanced to the CBs, whereas the RRB was not refinanced.

### 6.1.2. Status co-operative bank in Nagaland

The Nagaland State Co-operative Bank management is governed by Board of Directors comprising of 16 Directors, of whom the State Government is represented by the Addl. Chief Secretary & Finance Commissioner, Commissioner & Secretary Co-operation & the Registrar of Co-operative Societies, representative from NABARD as ex-officio Member, besides one Director representing Primary Agricultural Co-operative Societies from each District and the Managing Director of NSCB who is the Member Secretary. It was observed that the SCB investment was seen to have a negative rowth rate of -2.66 per cent, but the CD Ratio was recorded the highest are the years with 36.00 per cent during the year 2011-12 with a growth rie of 41.29 per cent which was a drastic improvement over the previous war (2010-11) with a growth rate of only 3.92 per cent. The recovery performance was also observed to have improved, with a recovery performance of 60.78 per cent. The overall Net Profit-Loss was found out to he highest during the year 2011-12 with a net profit growth rate of 42.09 per cent.

The total membership rose to 13,150 with a growth rate of 15.05 during 2011-12.

Funds required for lending and investments are raised through ewned funds, public deposits and borrowings from the State Govt., and NABARD.

The share capital was observed to have increased with a growth rate from 3.54 per cent (during 2010-11) to 7.88 per cent (during 2011-12). It was observed that the highest share of capitals in all the years comes from the contribution share of the State Government.

The total reserves was found highest during the year 2011-12 which stood at ₹ 382.79 lakhs (growth rate of 7.29 per cent) as on 31 March 2012, but the growth rate was found highest during the year 2007-08 with a growth rate of 36.39 per cent.

The own funds was found to be ₹ 3,932.28 with a growth rate of 7.84 percent as on March 2012 which was also recorded the highest.

The deposits of the Bank have increased from ₹ 32,310.50 lakhs as on March 2011 to ₹ 36,683.45 lakhs as on March 2012, making it the highest total deposits (growth rate of 13.53 per cent). Though the total deposits have increased, the growth rate of total deposits was observed decreasing during the past years. Under borrowings, there has been only a marginal growth in the overall borrowings during the year 2011-12. The highest source of borrowings during the year 2011-12 was seen from the NABARD ARF (Refinance) to the tune of ₹ 580 lakhs, followed by NABARD SAO with ₹ 375.10 lakhs and then by NSTFDC borrowings of ₹ 69.13 lakhs.

The distribution of the annual flow of loan and advances showed that it was increasing year after year in an increasing order. The total flow of credit from the SCB reached a new height of  $\gtrless$  9,242.91 lakhs (during 2011-12) from  $\gtrless$  4,762.74 lakhs (during 2010-11). The flow of credit to the consumer loan was found highest, followed by cash credit, then agriculture and allied sector and then the SHG for medium term loan.

The recovery position of the State Co-operative Bank showed a significantly increased in the recovery of the principal credit distributed from 58.40 per cent as on March 2011 to 60.78 per cent as on March 2012.

### 6.1.3. Socio-economic status of the respondents

There were a total of 120 respondents, 60 respondents from the horrowers and 60 from the non-borrowers. The borrowers had 10 respondents with marginal land holdings, 40 respondents with small land holdings and 10 respondents with medium sized land holdings. On the other hand the non-borrowers had 8 respondents with marginal land holdings, 32 respondents with small land holdings and 20 respondents with medium sized land holdings.

Both the borrowers and non-borrowers each had 7 respondents with agricultural based activities, 20 respondents with fishery based activities and 33 respondents with animal husbandry activities.

The average family size of the borrowers was found to be 5.53 with male population (55.20 per cent) higher that the female (44.80 per cent). The

mon-borrowers also have a male population (52.25 per cent) higher than the male (47.74 per cent) with an average family size of 4.80.

The sample respondent's farm family illiteracy rate was found to be 6.18 per cent for the borrowers and 15.63 per cent for the non-borrowers. The proportion of male and female literacy under borrowers was found to be 55.20 per cent for male and 44.80 per cent for female, whereas for the con-borrowers it was found to be 52.74 per cent for male and 47.74 per cent for the female. On the type of education level attained, High School level was found to be prevalent (48.27 per cent) under borrowers and Primary schooling (37.85 per cent) under non-borrowers.

The borrowers' primary occupation was observed to be agriculture (#77 per cent) and also with a dominant agriculture as their secondary ecupation (70.93 per cent). Under non-borrowers, agriculture was found to be the primary occupation (48.70 per cent) and also their secondary ecupation (41.75 per cent). These findings revealed that agricultural ectivity played a dominant role in the study area.

The total work force of the borrowers was found to be 81.60 per cent and 78.13 per cent for the non-borrowers. The male workers in both the case (borrowers and non-borrowers) was found to be higher than the female workers.

### 1.4. Land inventories of the respondents

The overall average land holding was found to be 0.73 ha for the horrowers and 0.89 ha for the non-borrowers. Under borrowers, Group I have an average holdings of 0.43 ha, Group II with 0.69 ha and Group III with an average of 1.19. The non-borrowers Group I have and average holdings of 0.44 ha, Group II with 0.78 ha and Group III with 1.24 ha.

The borrowers' maximum utilization of land was found to be for the se of agricultural operation. Land under vegetable cultivation accounts

~119~

for 30.16 per cent and land under paddy accounts for 27.11 per cent of the total land holdings. The non-borrowers maximum land use was seen under agriculture for the production of paddy accounting for 35.87 per cent and vegetable cultivation with 15.39 per cent of the total available land.

### 6.1.5. Agriculture and allied activities of the respondents

The borrowers had a total cropped area of 46.34 ha, with a total production of 4,163.78 kg and a sold out value of ₹ 46,369.50. Observation revealed that, majority of the production comes from cereals accounting for 66.15 per cent of the total production and also with the highest sold out value (61.97 per cent) of the total sold out value. On the other hand the non-borrowers have a total cropped area of 36.69 ha, with a total production of 4,361.84 kg and a total sold out value of ₹ 19,292.85. The income generated from the borrowers had a higher sold out values than the non-borrowers.

The average cost of cropping for the borrowers was found to be ₹ 48,276.65 and ₹ 28,595.69 for the non-borrowers. The maximum cost incurred under cropping for both the borrowers and non-borrowers was the cost of labour. The cost of production was found to increase with increase in the land holding i.e. from marginal to medium size land holding.

The distribution of respondents' livestock inventories showed that the borrowers, on an average have a total current livestock value of 32,663 and the non-borrowers with a current average value of  $\gtrless$  15,173.33. The maximum present value was found to be from piggery with an average value of  $\gtrless$  23,800 per borrower family and  $\gtrless$  11,500 per non-borrower family.

The cost of livestock production on an average was found to be ₹ 32,496.73 and ₹ 14,653.45 for the borrower and the non-borrowers

respectively. Under both the cases (borrowers and non-borrowers), the highest cost was incurred on the purchase of animals for rearing accounting to an average of ₹ 11,278.40 (34.71 per cent) and ₹ 5,264.18 (35.92 per cent) respectively, followed by the feeding cost, with an average of ₹ 8,243.25 (25.37 per cent) for the borrowers and ₹ 3,779.96 (25.80 per cent) for non-borrowers.

The borrowers' average net return from livestock production was found to be ₹ 55,371.26 and ₹ 33,648.17 for the non-borrowers. The highest average return for the borrowers was found to be from cattle with a return of ₹ 27,979.33 (50.53 per cent) and for the non-borrowers it was from piggery with an average of ₹ 23,741.50 (70.56 per cent). The item-wise breakup of return from different source revealed that sale of mature animals contributed the highest, with an average sold out value of ₹ 30,422 (54.94 per cent) for the borrowers and ₹ 23,686.04 (70.39 per cent) for the non-borrowers.

The overall average cost of fish production was found to be 1 11,455.63 for the borrowers and  $\gtrless$  8,091.96 for the non-borrowers. The total cost incurred was found increasing with the increase in the farm size under both the cases of borrowers and non-borrowers. The highest cost incurred for fish production was the feeding cost, with an average cost of  $\end{Bmatrix}$  4,626,53 (40.39 per cent) and  $\gtrless$  3,610.25 (44.62 per cent) for borrowers and non-borrowers respectively.

The respondents' average yield from fish production was found to be 250 kg, with a worth value of ₹ 25,026.67 for the borrowers, whereas for the non-borrowers, it was found to be 154.73 kg, worth ₹ 15,472.50. The average sold out value of fish for the borrowers was found to be ₹ 23,670.83 and ₹ 14,760.83 for the non-borrowers. Comparatively, in terms of yield and return from fish, the borrower was found to be better off than its counterpart, the non-borrower.

The average cost of plantation was found to be ₹ 2,029.73 for the borrowers and ₹ 4,086.33 for the non-borrowers. The highest cost incurred was the labour cost under both the cases. The average total return from plantation for the borrowers was found to be ₹ 1,136.67 and ₹ 1,926.56 for the non-borrowers. The borrowers' total return from sale of the products arcounts for 61.58 per cent and for the non-borrowers it was 60.77 per cent.

### 6.16. Expenditure and income of the respondents

The borrowers on an average, per annum have a total expenditure of  $\langle 1,22,3,46,56, \rangle$ , whereas for the non-borrowers it was found to be  $\gtrless$  88,838.89. The total expenditure for the borrowers was incurred from on-farm expenditure (50.74 per cent) and the family-needs expenditure (49.26 per cent), whereas for the non-borrowers it was found to be 30.15 per cent for on-farm expenditure and 59.07 per cent for family-needs expenditure. The highest expenditure incurred was for animal husbandry with an expenditure amount of 26.56 per cent for the borrowers and for the non-borrowers the highest expenditure was incurred for the household needs amounting to 30.15 per cent.

The respondents' annual income from different sources was found to be  $\gtrless$  1,38,136:10 per respondents for the borrowers and  $\gtrless$  83,389.81 for the non-borrowers. Of the different source of income, animal husbandry contributes a major share, on an average contributing 40.08 per cent to the horrower's income and 34.02 per cent to the non-borrowers income. The mome was found to increase with the increase in the farm size under borrowers. On comparison, borrowers' income generated from agricultural, animal husbandry and fishery was found higher than the non-borrowers in all the cases. This implies that the income impact was positive on the borrowers:

### 6.1.7. Impact of co-operative bank finance on employment and income

The total average number of mandays generated for the borrowers was found to be 305.62 mandays, with male employed for 161.64 days (52.89 per cent) and female for 143.98 mandays (47.11 per cent). The non-borrowers average number of mandays was out to be 211.65 mandays, with male employed for 117.95 mandays (55.73 per cent) and female for 93.70 mandays (44.27 per cent). Of the different agricultural activities, crop production was found to generate the highest employment mandays, generating 134.33 mandays (43.95 per cent) for the borrowers, whereas for the non-borrowers it generated 68.76 mandays (32.49 per cent). The borrower's average number of person employed was found out to be 11.17 perfamily and 9.02 persons per family for the non-borrowers.

There was a significant increasing trend on the borrower overall groups. The increase in income from crop production was found to be 26.27 per cent, animal husbandry with 48.12 per cent, fishery enterprise with 10.79 per cent, plantation enterprise with 16.33 per cent and other agriculture and allied activity had increased to 42.55 per cent on the sample respondents after getting the co-operative bank finance. It also showed a significant increase on the overall group employment. Employment from crop production was increased to 27.32 per cent, animal husbandry to 45.25 percent, fishery enterprise to 10.12 per cent, plantation enterprise to 15.83 percent and other agriculture and allied activity had increased to 35.34 per cent.

### 6.1.8. Resource use efficiency of the respondents

Cobb-Douglas Production Functions was used in the present study for the assessment of the resource use efficiency of different enterprises. The production function of different enterprises were fitted as regressing gross return (y),  $x_1$ ,  $x_2$ ,  $x_3$ ,  $x_4$ ,  $x_5$ ,  $x_6$ ,  $x_7$  and  $x_8$  in terms of rupees ( $\overline{x}$ ) as independent variables on marginal, small and medium farm size groups as well as overall farm size group.

By aggregating the cross-sectional data of all the farms in various fam size groups under beneficiaries, the value of R<sup>2</sup> was found to be 0.9956, which shows that 99 per cent of the variation of dependent variable explained by the independent variation chosen in the equation. Even on the non-beneficiaries the overall of R<sup>2</sup> was found to be 99.96 per cent, which shows a good fit of the selected model. The remaining Variation of dependent variable might be due to other variables, which have been used in excess or not properly used.

The overall regression co-efficient of input a (constant) was found to have a positive significant at 1 per cent and 10 per cent level for the beneficiaries and non-beneficiaries respectively, which indicate that the model is a good fit.

The regression co-efficient of  $x_1$  (human labour cost) for beneficiaries was found maximum (0.24) on the overall and minimum on the small size group (0.19) and was found significant at 10 per cent level of significance, while on marginal and medium size group it was found non-significant. The non-beneficiaries human labour had significance on the marginal (0.94) and small (0.96) size group at 10 and 5 per cent level of significance respectively.

In case of x<sub>2</sub> (seed/sapling/animal/fingerling cost) it was found to be positive and significant at 10 per cent level of significance in the entire size group under beneficiaries. x<sub>2</sub> was also found significant under non-beneficiaries in all the group size. It indicates a good fit with more potential in compare to other inputs toward the gross returns.

The regression co-efficient of  $x_3$  (fertilizer) on the beneficiaries was found to be statistically significant at 1 per cent level only in medium farm size group (25.75), while on the non-beneficiaries it was found significant on the medium and the overall. The x4 (plant protection) was found significant only in the small size group under beneficiaries and significant at 10 per cent level of significance, whereas, it was not found significant in any of the group under non-beneficiaries.

The value of x<sub>5</sub> (machineries) was found significant only in the overall group under beneficiaries and significant at 1 per cent level, while on the non-beneficiaries it was found significant on the small and overall group, significant al 10 per cent level of significance.

The value of x<sub>6</sub> (transportation) for the beneficiaries was found to be statistically significant at 10 per cent level in small size and medium farm group and the overall groups at 1 per cent level of significant, which shows a positive significant contribution of the input to the gross returns. Under non-beneficiaries marginal and medium size group was found significant at 10 per cent level of significance.

The value of x7 (marketing cost) was found significant in all the groups and also on the overall under beneficiaries and non-beneficiaries, which shows a positive significant contribution of the inputs to the gross return.

The value of  $x_8$  (miscellaneous) was found to be significant only in the medium size and statistically significant at 10 per cent level under beneficiaries, while under non-beneficiaries it was not found significant.

To evaluate how efficiently the farmers of the study area have been utilizing their resources, the Marginal Value Product (MVP) of an input was compared with its respective factor cost. The gross sectional data of overall farm size have been aggregated and the ratio of MVP to its factor cost was computed. It was observed that ratio of x<sub>1</sub> to x<sub>8</sub> was found to be positive as well as negative values. Positive value indicates increase return, the greater than unity the higher the gross return which highlight that the farmers can incurred more investment on those inputs for getting better returns, while the negative values indicating either excess use of inputs and

~ 125~

adverse response towards the gross return, which needs to be curtailed immediately and further investment of such inputs must be shifted towards the higher results inputs which will provide the positive contribution to the gross return.

The value of MVP for  $x_1$  (human labour cost) was found to be positive for the entire farm size groups. Under beneficiaries, an addition of one unit of the  $x_1$  input would be adding a value ranging from 4.21 to a maximum of 45.79, whereas in the non-beneficiaries it would be adding a value in the range of 34.55 to 217.61.

The value of MVP for  $x_2$  (seed/sapling/animal/fingerling cost) was found to be positive for all the farm size groups. The value ranges from 43.47 to 932.56 for the beneficiaries and from 31.79 to 108.51 for the non-beneficiaries.

The MVP of x<sub>3</sub> (fertilizer) was found to be positive for medium farm size (120.51) and negative for the marginal (-18.83) and the small (-21.52) farm size on the beneficiaries. The negative MVP means that addition of one unit of the input x<sub>3</sub> would reduce the return ranging from 18.83 to 21.52. Also the MVP of x<sub>3</sub> for the non-beneficiaries was found to be positive on medium farm size (727.59) and negative On the marginal (-420.76) and small (-182.76) farm size of the beneficiaries.

The MVP of  $x_4$  (plant protection) in marginal size and small size was found to be positive and negative for the medium size group and the overall group on the beneficiaries. Whereas, for the non-beneficiaries the marginal, small and medium farm size had a negative value indicating that the addition of a unit will reduce the return and only the overall had a positive value.

The MVP of xs (machineries) of beneficiaries under marginal and medium farm size groups was found to have negative values, indicating that addition of one unit of these inputs would decrease the gross return, while the small and the overall group was found to have positive values.  $\sim 126 \sim$  The farm size groups all had negative values under non-beneficiaries, only the overall had a positive value. The additional investment of one unit to these inputs would be decreasing the gross returns and would not contribute their share to the gross return of a farm.

The MVP of  $x_6$  (transportation) in small, medium and overall farm size group under beneficiaries was found to be positive, indicating that addition of one unit of this input will increase gross return by 16.83 to 244.00. While under non-beneficiaries it was found to be positive for all the groups and the overall groups with value ranging from 1.24 to 70.07.

The MVP of x<sub>7</sub> (marketing cost) was found to be positive on the entire farm size groups. Under beneficiaries, an addition of one unit of the x<sub>7</sub>input would be adding a value ranging from 1846.51 to a maximum of 9547.08, whereas, in the non-beneficiaries it would be adding a value return in the range of 3.35 to 1031.55.

The MVP of  $x_8$  (miscellaneous) for beneficiaries under marginal, small and overall farm size groups was found to be negative, indicating that addition of one unit of these inputs will decree their gross return, and only the medium farm size had a positive value. The marginal and small farm size under non-beneficiaries had negative values, whereas, the medium and the overall groups had a positive value.

### 6.1.9. Status of bank loan received by the borrowers

Group I (Marginal farm size) had ten (10) loanees who took loan for animal husbandry. Under Group II (Small size) there are 3 borrowers for agriculture, 15 for fishery and 22 for animal husbandry. Under Group III (Medium Size) there are 4 agricultural loanees, 5 fishery loanees and 1 animal husbandry loanees. Categorizing the loanees under different enterprises, the maximum amount disbursed per loanee was found highest under animal husbandry with an average amount of ₹ 63,969.70, followed by agriculture with ₹ 57,685.71 and then by Fishery with ₹ 48,890.

The finding revealed that the borrowers a whole borrowed an amount of ₹ 34,92,600, with an additional interest amount of ₹ 4,19,112. The total amount due for repayment was found to be ₹ 39,11,712, out of which ₹ 14,71,000 (37.61 per cent) was paid and with a balance of ₹ 24,40,712.00 (62.39 per cent). Across the different Groups, Group I have a balance of 55.94 per cent, Group II with 63.64 per cent and Group III with 64.38 per cent. Under the mode of repayment, partial repayment was found to be dominant with 81.67 per cent. The balance due for repayment was found to be increase with the increase in the farm size, which indicates that, the marginal farmers was found more punctual in repayment of the loans than the small and medium size farmers.

The overall utilization of the bank loan for which it was sanctioned was found out to be 41.70 per cent; the remaining was used for other productive uses on the farm (14.52 per cent) as well as non-productive uses for home consumption (43.78 per cent). Apart from the actual usage, the maximum funds were diverted to household consumption needs which accounted for 33.13 per cent of the total loan. Under the different categories of borrowers, Group I utilized 46.28 per cent for the actual loan purpose, 282 for other productive purpose and 50.90 per cent for non-productive uses. Group II utilized 40.78 per cent for the loan purpose, 15.52 per cent for other productive uses and 43.70 per cent for non-productive uses. Group III utilized 40.42 per cent for actual loan purpose, 23.25 per cent for ather productive uses and 36.33 per cent for non-productive uses. The purpose utilization of bank loan was found to be better in Group II (40.28 per cent), followed by Group II (40.72 per cent) and then by Group III (40.42 per cent).

### 6.1.10. Problems faced by the borrowers

The highest incidence of the problems faced in utilization of the loan was found to be for, the time of disbursement of bank loans, with 60 (100 per cent) respondents facing such problems, followed by problems faced in disbursement of loan (instalment release) faced by 33 respondents (55 per cent), other needs (46.67 per cent) and the amount (21.67 per cent).

The highest problems faced in acquiring loans was the Guarantor/ Securities/ Certificates, faced by 60 respondents (100 per cent), followed by guidan œ provided by the bank faced by 71.67 per cent, bank process faced by 66.67 per cent, form issued by the bank faced by 60 per cent, knowledge about type of loan faced by 51.67 per cent, filling up of forms faced by 48.33 per cent and by knowledge about banks faced by 38.33 per cent.

The other related problems faced by the respondents was found highest with the supervision and other agricultural and allied problems faced by 100 per cent, followed by interest rates faced by 81.67 per cent, funds & capital faced by 80 per cent, knowledge & skill problems faced by 76.67 per cent and other problems viz., transportation, bank knowledge, repayment period, insect-pest & diseases and marketing.

Amount of loan was the foremost challenge to the borrowers and has been ranked as the most perceived constraint with a RBQ 33.33, followed by preparation of DPR (RBQ 30.67), lack of technical guidance from bank (RBQ 30.00), time of disbursement (RBQ 28.33) were highly ranked constraints reported by the respondents. On the other hand, subsidiary/ rebate on loan (RBQ 20.00), disbursement of loan (RBQ 14.67), credit facilities and miscellaneous (RBQ 12.00), form issued by the bank (RBQ 11.00), knowledge about type of loan (RBQ 9.00), bank interest rate (RBQ 8.00), filling up of loan forms (RBQ 5.33), repayment period (RBQ 4.67) were perceived as constraints of co-operative bank finance, on a lower scale.

### 6.1.11. Problems faced by the bank(ers)

The foremost important problem faced by the bankers in general was the existence of high overdues. This was caused by non-repayment of dues. Most of the borrowers were not sincere in repaying their dues, and this has caused stagnation in lending.

The co-operative bank in general gives financial assistance to people from all walks of life, even financing to the remote areas and other localities, and which has caused supervision problems due to poor connectivity and the distance between the bank branch and the loanees.

The bankers also face uneven distribution of borrowers which has led to supervision problems.

It has also been found that there are borrowers who are unfaithful towards supervision officials. The misutilization of bank loan in the study may not be due to lack/inadequate funds but due to unfaithful nature of the borrowers.

The bankers also observed that borrowers submitted their loan proposal late. If the loan is sanctioned to these borrowers, there may be a possibility of diversion of the loan. There is also a chance of repayment problem as the loan sanctioned may not be able to generate returns to repay the installment on due date.

One of the main reasons why co-operatives bank are lacking in the state is due to lack of human resources. Lack of manpower has limited the bank's expansion as well as supervision.

Apart from misutilization and diversion of loans for other uses, the use of modern technology in the farming system is lacking which reduces their productivity. The farmers neither are ready to participate in trainings on modern means of farming nor are willing to use modern technology in the farming system.

### 6.2. CONCLUSION & SUGGESTIONS

The co-operative bank finance was observed to have a positive impact on 42.55 per cent of the beneficiaries to enhance their income and further it had the capacity to generate more income through agriculture and allied enterprises. Bank finance also had a positive impact on 35.34 per cent enhancement of mandays employment, which further showed prospect of generating more mandays employment by taking up the different enterprises.

As more entrepreneurs/farmers come forward to start any agriculture related activities, financial support by the co-operative banks must be extended to them as being socially acceptable and economically feasible. One enterprise alone is not sufficient enough to raise the employment and income level and further if more employment and income are to be generate throughout the year more enterprise have to be incorporate for which, loan/credit must be provided to the beneficiaries by extending micro-finance required based on the performance.

The foregoing study had brought out the following suggestions, which are expected to result greater success to the beneficiaries and bankers of co-operative banks in Nagaland.

- The main reasons co-operatives bank lacking in the state are due to lack of human resources and connectivity. Lack of manpower has hindrance on the bank expansion as well as supervision. There is a need to employ more staff for the functioning and expansion of the bank.
- 2 Slackness in recovery of loans, resulting in mounting overdues is undermining the soundness of credit structure in many areas and has led to stagnation. These high overdues have created obstacle for other beneficiaries from getting the required amount. This points to the deficiencies in loaning policies, inadequate arrangements for supervision and weaknesses of internal management of the bank

officials. Systematic efforts need to be made both by the State Government and by the bankers towards substantial reduction of overdues. Attention is also needed to incorporate and strengthening the recovery staff and other concerned departments.

- 3. Development programmes at block level with facilities and extension services must be strengthened in order to make the rural people aware, to set up enterprises efficiently in terms of increasing their income and employment, to enhance the production/ productivity through the agriculture and allied enterprises to achieve selfsufficiency of the state in the days to come.
- 4. Apart from misutilization and diversion of loans for other uses, the use of modern technology in the farming system is lacking which reduces their productivity. Concern Government department should train and encourage the farmers. The department of agriculture and allied department should take the initiative to conduct training and equip the farmers with the modern techniques of cultivation practices so as to increase their productivity and thereby increased their economy.
- 5. The bankers also faces uneven distribution of borrowers, which also leads them is supervision problem. The idea of group borrowing and area approach system should be practised by the bank.
- 6. Misutilization of the funds allotted to the farmers is one of the major factors in the problems of non-repayment of the dues on time for which the loan was taken. Instalment releases should be encouraged with strict guidance and supervision.
- 7. The bankers should make public through mass media about the type of loans and criteria's and also the date of submission of forms in order to prevent late submission of loan proposals.

- 8 Self Help Groups should be encouraged by the co-operative banks even to the remote areas.
- 9. Government should take appropriate steps to establish connectivity, adequate marketing facilities and transport system to better communication.
- 10. Other institutional credit facilities at a nominal rate of interest should be made available to the farmers to take up new enterprises.
- Formation of co-operative organisations should be encouraged in the village level.

### 6.3. LIMITATIONS OF THE STUDY

The present study was conducted with a view that its result may be useful to the researcher, planners, co-operative bank personnel's, administrators and extension workers who are engaged in generating and disseminating credit schemes for the upliftment of the farmers of all groups in general and marginal farmers in specific. An attempt was made in this study to analyzed these factors, which would affect the availing, utilization and repayment of agriculture credit by farmers and to suggest measures to formulate strategies to increase the utility of agriculture credit.

The limitations of the study are as follows-

- The major limitation of the present study was with regards to the time, study area and other research facilities usually faced by a single researcher.
- The present study confined to only one district of Nagaland and the selection of the district was purposive hence scope of generalizations with respect to Agricultural credit and its impact on overall development of borrowers in other districts as is limited. Hence, the study does not claim to generalize the findings on large scale.

~[33~

Study is based on individual's perception and expressed opinion. Although attempts had been made to extract information from the respondents nearest to the truth but possibility arises that information provided by some respondents might not be accurate as there was no written record maintained by the respondents, therefore they had to rely on the recall memory.

- Most of the utilized variables were measured at nominal and/or ordinal levels not permitting the use of parametric statistical tests extensively.
- Some borrowers as well as non-borrowers were found to hesitate to give their responses easily on income, expenditure etc. aspects, which posed limitations in the present study.
- The study was conducted based on the expressed opinion of the respondent's viz., beneficiaries and non-beneficiaries. Therefore, possibility of error in recollecting or recalling can't be ruled out.

# **BIBLIOGRAPHY**

### BIBLIOGRAPHY

- Agarwal, N. C. 1974. Problems of Co-operative Banks & Solution. Indian Journal of Commerce. 27, (98): 35-38.
- Agarwal, N. L. and Kumawat, R. K. 1974. Potentialities of increasing farm income through credit in the district of Jaipur (Rajasthan). Agricultural Situation in India. 29. (7): 486-489.
- Agrawal, R. Sachin and Solanke, Dr. S. S. 2002. Problems faced by co-operative banks and perspectives in the Indian Economy. International Journal of Commerce, Business and Management. 1. (2): 53-54.
- Akmal, Nadeem.; Taj, Sajida.; Shah, N. A. and Shah, Hassnain. 2005. Short-term impact of micro credit in development project Punjab area. Indus Journal of Plant Sciences, 4. (2): 196-203.
- Anandam, M. A. and Namasivayam, N. 1988. Co-operative overdues- the influence of socio-economic factors of borrowers- A case study. Indian Cooperative review. 25. (3): 293-297.
- Anandan, L. 1979. A study on the pattern of agricultural financing by the State Bank of India in Alandurai- An adopted village in Coimbatore district. *Financing Agriculture*. **10**. (4): 29-33.
- Anonymous. 1987. State Bank of India, Impact of Bank Credit on weaker Sections in Kerata. State Bank of India Monthly review. 26. (10): 444-458.

Anonymous. 1993. Annual Report, NABARD 1992-93, Mumbai: 29.

- Anonymous. 1999. Genesis and Architecture of Urban Co-operative Banks. http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?UrlPage=& ID=131 [Accessed 12th Dec 2012].
- Anonymous. 2005. Government of India, New Delhi. Report of the Task Force on Revival of Rural Co-operative Credit Institutions: 5.
- Anonymous. 2007. Developments in Co-operative Banking. http://rbi.org.in/scripts/ PublicationsView.aspx?id=9814 [Accessed 17th Dec 2012]

- Anonymous. 2009. Profile of Dimapur district. National Informatic Centre, Dimapur. http://dimapur.nic.in/\_[Accessed 8<sup>h</sup> Jan 2013].
- Anonymous. 2010<sup>1</sup>. Economic Survey 2010. Ministry of Finance, Government of India. http://indiabudget.nic.in/es2009-10/chapt2010/chapter.zip [Accessed 11<sup>th</sup> Nov 2012].
- Anonymous. 2010<sup>2</sup> Demographic over View of Dimapur district. KVK Dimapur, ICAR Research Complex, Jharnapani, Nagaland, http://kvkdimapur.nic.in/dimapur.htm [Accessed 10th Feb 2013].
- Anonymous. 2011. Statistical handbook of Nagaland. Directorate of economics and statistics, Government of Nagaland.
- Anonymous. 2012<sup>1</sup>. Brief History of Urban Co-operative Banks in India. Reserve Bank of India. http://www.rbi.org.in/scripts/fun\_urban.aspx. [Accessed 13<sup>th</sup> Jan 2013]
- Anonymous. 2012<sup>2</sup> Department of Agriculture & Co-operation, Ministry of Agriculture, Government of India (2012). Multi-State Co-operative Societies Act 2002. http://agricoop.nic.in/coopact02/multistate.htm [Accessed 12<sup>th</sup> Dec 2012].
- Ara, L. A.; Alam, M. F.; Rahman, M. M. and Jabbar, M. A. 2004. Yield gaps, production losses and technical efficiency of selected groups of fish farmers in Bangladesh. Indian Journal of Agricultural Economics, 59, (4): 808-818.
- Ariyarathna, J. and Mula, J. M. 2011. Best financial practices analysis and efficiency of small financial institutions: evidence from co-operative rural banks in Sri Lanka. *Journal of Emerging Trends in Economics and Management Sciences.* 2, (1): 22-31.
- Athavale, M. C. and Mishra, J. P. 1970. Loans Advanced by Land development Banks - Utilization, diversion and measures to prevent diversion. *Indian Journal of Agricultural Economics*. 26. (4): 571-575.
- Aye, N. Khashito. 2012. Nagaland GK. S. P. Printers, Dimapur, India.
- Aynew Belay.; Suhag, K. S. Hasija, R. C. Mehta, V. P. 2003. Structure and flows of agricultural co-operative credit in Haryana: a case study of PACSs. *Annals of Agri Bio Research.* 8, (2): 131-142.

- Bagchi, B. and Sain, K. 1980. Impact of the lead bank and the co-operatives on the farm finance in Nadia district of West Bengal. *Financing Agriculture*, **12**, (1): 6-9.
- Ba), H. S. and Singh, Bant. 1979. Indebtedness among agricultural labourers in Ludhiana district of Punjab. *Agricultural Situation in India*, **34**, (7): 428-431.
- Balishter; Singh, A. K. and Vishwa Jit. 1994. A study of overdues of loans in agriculture. Indian Co-operative Review. 31. (4): 377.
- Barton, D.; Boland, M.; Chaddad, F. and Eversull, E. 2011. Current challenges in financing agricultural co-operatives. Choices. The Magazine of Food, Farm, and Resources Issues. 26. (3): (unpaginated).
- Barua, P. C. 1986. Banking Industry and Rural Development, Rural Development in North East India, proceeding of Seminar on problems of Rural Development in North East India. March. AAU, Jorhat.
- Basak, Amit. 2009. Performance Appraisal of Urban Co-operative Banks: A Case Study. The IUP Journal of Accounting Research. 8. (1): 31-44.
- Batra, J. D. 1977. Rural banks for the rural poor. Kurukshetra. 26. (2): 11-12.
- Bhaskaran, R.; Muralidaran, S. and Roy, K. 2004. Pricing of crop loans by co-operative banks. Occasional Paper National Bank for Agriculture and Rurat Development, Mumbai. 33: 48.
- Bhatia, J. P. 1975. Problems of small farming- A case study of Tribals, Uttar Pradesh. Indian Journal of Agricultural Economics. 30. (3): 238-240.
- Bhoslae, S. R. and Dangat, S. B. 1989. Repayment of Overdues of Medium Term Loans of Co-operative Societies in Kolhapur District. Indian Co-operative Review. 26. (3): 35-42.
- Bhowmick, B. C. 1975. Resource productivity, allocation and farm profitability of jute and paddy in Kamrup district of Assam. M. Sc. (Agri.) thesis submitted to Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (unpublished)
- Block Development Office. 2011. BDO Office, Medziphema. Department of Rural Development, Government of Nagaland.
- Boakye, D. K. 1979. A review of the farm loan repayment problem in low income countries. Savings and Development. 3. (4): 231-235.

- Burkell, P. 1989. Group lending programmes and Rural financing in developing countries; Savings and Development. 13. (4): 401.
- Census of India. 2011. Provisional population Totals-Nagaland 2011. Ministry of Home Affairs, Government of India.
- Chalam, G. V. and Prasad, A. 2007. An evaluation of financial performance of co-operative societies in Andhra Pradesh (A study of selected PACSs in West Godavari District), Indian. Co-operative Review. 45. (1): 42-57.
- Chand, R. and Sidhu, D. S. 1981. Distribution of Agricultural Gredit and concentration of overdues in Punjab. *Financing Agriculture*. 13. (2): 18-22.
- Chatterjee, Susmita. 2009. Expansion of institutional credit: a district level study of rural West Bengal. Prajnan. 37. (4): 285-308.
- Chauhan, K. K. S. 1971. Small farmers and co-operatives. Indian Co-operative Review. 9. (1): 49-51.
- Chidambaram, M. A. 1978. Development credit for agriculture- refinance facilities from ARDC - IDA credit for financing agricultural projects. ARDC News. 7. (3): 43-47.
- Chinnappa, B. 1999. Gredit problems faced by farmers of Bhadra command area in Karnataka. *Rural India*. 62, (4): 99-104.
- Chinnappa, K. 1992. Problems of the District Go-operative Banks. Indian Cooperative Review. 29. (3): 23-27.
- Colombo, G. 1978. Problems of agricultural credit in modern agriculture. *Rivista* di Politica Agraria. 25. (3): 27-31.
- Das, Debabrata. 2000. Go-operative banking in Arunachal Pradesh: a case study. Indian Co-operative Review. 38, (1): 48-62.
- Das, Debabrata. 2001. A study on repayment behaviour of sample borrowers of the Arunachal Pradesh State Go-operative Apex Bank Ltd. Indian Cooperative Review. 39. (2): 139-147.
- Das, Debabrata. 2002. State Go-operative bank and rural development: a case study. Journal of Rural Development (Hyderabad). 21. (2): 251-263.
- Das, Sanjay K and Chaudhury, S. K. 2011. A Study of State Go-operative Banking System in the North Eastern Region of India. International Journal of Consumerism. 1 (1): 35-44.

- Das, Sanjay Kanti. 2012<sup>1</sup>. Operational and financial performance analysis of Meghalaya Co-operative Apex Bank. *Journal on Banking Financial Services & Insurance Research.* 2. (3): 20-39.
- Das, Sanjay Kanti. 2012<sup>2</sup>. State Co-operative Banking in Northeast India: Financial and Operational Viability Analysis. *Journal of North East India Studies*. 2 (2): 20-25.
- Deo, S. 1976. Problems of Agricultural Credit Allocation. Rural India. 39. (7): 140-142.
- Deoghare, P. R.; Sharma, B. M. and Goel S. K. 1991. Impact of Credit and Technology on income and Employment of small farms under different farming systems in Karnal District (Harvana). *Agricultural Situation in India*: 59-65.
- Deorukhakar, A. C.; Talathi, J. M.; Nikam, M. B. and Patil, H. K. 2007. Impact of Institutional Finance on Farmers Economy in North Konkan Region of Maharashtra, India. International Journal of Agricultural Science. 3, (2): 96-100.

Desai, B. M. 1979. Rural banking in India. Prajnan. 8. (2): 109-113.

- Desai, B. M. and Rao, Y. Narayana. 1978. Default of Co-operative Loans: Problem, Causes and a Strategy for Solution. *Prajuan.* 6. (2): 34-37.
- Desai, V. 1983. Role of financial institutions in rural areas. A study of rural economics, Himalaya Publishing House, Bombay: 370-391.
- Desai, V. V. 1978. Some aspects of farm loans by commercial banks. Indian Journal of Agricultural Economics. 33, (4): 79-84.
- Deshmukh, Jagdish. and Somalkar, Dr. Prakash. 2012. Urban Co-Operative Banks- Past, Present & Future Scenario. Journal Of Research In Commerce & Management. 2. (1): 71-74.
- Dev, S. M. 2004. How to make rural India shine. Economic and Political Weekty. 39, (40): 4415-4422.
- Dhaka, B. L. and Poonia, M. K. 2010. Identification of Constraints encountered by the Farmers in Production and Marketing of Vegetables in Bundi district of Rajasthan. Indian Journal of Agricultural Marketing. 24. (1): 20-2.
- Dhawan, K. C. and Kahlon, A. S. 1978. Adequacy and productivity of credit on the small farms in the Punjab. *Indian Journal of Agricultural Economics.* 33. (4): 91-99.
- Dixit, R. S. 1977. Impact of co-operative finance on farm practices. *Kurukshetra*. **26.** (2): 17-19.

Dutta, P. C. 1973. Role of S.F.D.A. in Assam. Kurukshetra. 11. (13): 1-7.

- Dutta, U. and Basak, A. 2008. Appraisal of financial performance of urban co-operative banks- a case study. *The Management Accountant, Case Study,* March: 170-174.
- Famoriyo, S. 1980. Improved agricultural credit in Nigeria. Agriculturat Administration. 7. (2): 113-121.
- Fernandez, A. P. 2007. History and spread of the self-help affinity group movement in India. International Fund for Agricultural Development (IFAD). Retrieved from http://www.ifad.org/operations/projects/ regions /pi /paper/3.pdf [Accessed on 15th January 2013].
- Finch, Lindley. 1969. Indian and U. S. farmers. Their common problemagriculture finance in India, role of commercial bank. Marketing and Economic Research Bureau. 9, (4): 95-97.
- Gajanana, T. M. and Sharma, T. M. 1990. Income and employment of drought prone farmers- role of credit and technology. Agricultural Situation in India. 45. (5): 300-305.
- Gandhi, V. P. 1999. Institutional Framework for Agricultural Development. Indian Journal of Agricultural Economics. 54. (1): 48.
- Gandhimathi, S. and Vanitha, S. 2009. Repayment and Overdues Determinants of Agricultural Credit: Some Results for Commercial and Co-operative Banks. The IUP Journal of Bank Management. 8. (3 & 4): 54-72.
- Gangaiah, C.; Nagarja, B. and Naidu, C. V. 2006, Impact of self-help groups on income and employment: A case study. *Kurukshetra*. 54. (5): 18-23.
- Ganguar, A. C. and Aggarwal, K. 1988. Borrowing and repayment of farmers pertaining to institutional loans in Kurukshetra district of Haryana, Indian Journal of Agricultural Economics. 43. (4): 136.
- Garg, R. B. L. 1977. Farmers Problem & Credit Co-operative. NCDC Bulletin: 18-21.
- Gaur, Arti. and Khatkar, Shilpa. 2010. Institutional credit flow in agriculture sector in India. Annalso f Agri Bio Research. 15, (2): 111-116.
- Gnanadhas, M. E. and Geetha, P. 2009. Repayment of loan in Employees' Co-operative Thrift and Credit Societies. *Journal of Rural Development* (Hyderabad). 28. (4): 485-490.

- Goel, B. B. 2006. Co-operative Legislation: Trends and dimension. Deep and deep publication, New Delhi, India.
- Gupta, J. K. 1988. Institutional farm financing with special reference to problems of loan recoveries in Jabalpur district. Indian Journal of Agricultural Economics. 43. (4): 129-136.
- Gupta, Jyoti and Jain, Suman. 2012. A study on Co-operative Banks in India with special reference to Lending Practices. International Journal of Scientific and Research Publications. 2. (10): 1-6.
- Gupta, K. K. 2005. Evolution of co-operative credit institutions in India: a viewpoint. National Bank News Review (Mumbai). 21. (2): 1-8.
- Gupta, N. K. and Chopra, Monika. 2008. Financial Markets, Institutions & Services. Ane Books Private Limited, New Delhi, India.
- Gupta, S. K., and Sadhu, A. N. 1995. Economic liberalization and rural credit. Kurukshetra. 43. (10): 28-35.
- Gurauswami, P. A. 1976. Study the factors affecting securing and repayment of agricultural credit from Canara Bank, Sarkar Somunkulan, Coimbatore. *Indian Journal of Agricultural Economics.* 18. (4): 411-415.
- Gurusamy, S. 2009. Indian Financial System (2<sup>nd</sup> edition). McGraw-Hill Education India Private Limited Noida, India: 520.
- Hajela, J. K. 1979. Problems of agricultural financing in Indian economy: an analysis. Indian Journal of Economics. 60. (23): 81-96.
- Hanumantharayappa, G. K. 1977. Small farmers' production credit requirements and repayment problems: a study in Doddaballapur Taluk, Bangalore District. University of Agricultural Sciences, Bangalore, India.
- Haque, T. and Maji, C. C. 1978. Structure and flows of agricultural co-operative credit in India. Indian Journal of Agricultural Economics. 33. (4): 72-78.
- Harshitha, G. S.; Mahajanashetti, S. B.; Vijayakumar, H. S.; Basavaraj, H. and Basavaraj, B. 2008. Management appraisal of district central co-operative bank - a case of DCC Bank, Shimoga, Karnataka. Karnataka Journal of Agricultural Sciences. 21. (3): 403-406.
- Hatai, L. D.; Singh, H. P.; Sen, C. and Dixit, R. S. 2006. Agricultural credit and Overdues in Uttar Pradesh: An Economic Analysis. *Financing Agriculture*. 38. (2): 17-19.

- Hate, M. V. 1977. Problems of financing agriculture: a study on India. Co-operative News Digest. 28, (12): 186-198.
- Hundie, B.; Belay, K. and Demeke, M. 2004. Factors influencing repayment of agricultural input loans in Ethiopia: the case of two regions. Savings and Development. Supplementary issue: 117-144.
- Huss, Bernard, 1924. People's Banks or Use and Value of Co-operative Credit. Mariannhill [Natal]: 82-83.
- Hussain, A. K. Z. 2006. Relative Performance of Service Co-operative Banks in Kerala. Co-operative Perspective. 41. (Annual issue): 65-70.
- Jain, H. C. 1983. Recovery performance of farm loans provided by the Central Bank of India in Jabalpur district, Madhya Pradesh. Financing Agriculture. 15. (3): 31-33.
- Jain, H. C. and Sarawgi, A. K. 1982. A comparative study into the impact of farm credit provided by the co-operative and commercial banks in tribal areas of Madhya Pradesh. *Co-operative Perspective*. 17. (1): 61-69.
- Jayasheela, B. and Birdar, R. R. 2000. Rural financing: A village study. Kurukshetra. 48. (6): 19-21.
- Jongur, A. A. U. 2008. The role of the Nigerian Agricultural and Co-operative Bank in the Development of Agricultural Extension Services in north-east zone of Nigeria. *Global Journal of Agricultural Sciences.* 7. (2): 115-118.
- Joseph, P. J. 1995. A study of the Agricultural and Rural Development Banks in Kerala with Special Reference to Funds Management. Ph. D. Thesis. Submitted to Cochin University of Science and Technology, (Unpublished).
- Joshi, D. P. 2002. Rural Credit. Yojana. 46 (1): 38-42.
- Joshi, M. K. 1979. Agricultural loans an appraisal of Lepayment performance. Financing Agriculture. 11. (1): 13-21.
- Joshi, N. C. 1997. Rural Credit and Development- a fresh look. Kurukshetra. 45, (11): 84.
- Kainth, G. S. 1979. Emerging pattern of co-operative credit in Punjab. Indian Journal of Economics. 59. (23): 451-458.
- Kainth, Cursharan Singh. 1998. India's rural co-operatives. Regency publication, New Delhi, India: 132-134.

- Kamath, C. E. 1978. Kamath working group on multi-agency approach to financing of agriculture. State Bank of India Monthly Review. 17. (9): 350-357.
- Kanchu, T. 2012. Performance evaluation of DCCBS in India a study. Asia Pacific Journal of Marketing & Management Review. 1, (2): 196-180.
- Kasar, D. V. and Patil, R. G. 1978. Institutional credit for agriculture: Problem and policy. Indian Journal of Agricultural Economics. 33, (4): 126-131.
- Kaushal, O. P. 1972. Proposed Channel of distribution of Loans for Rural Farmers. Indian Journal of Commerce. 21. (3): 85-86.
- Kharat, S. S. and Tripathi, B. N. 1979. The impact of crop loan on agricultural production by co-operative bank and nationalized bank in Rahuri Tuluka, Ahmednagar Distt. Maharashtra - a comparative study. Attahabad Farmer. 50, (4): 17-21.
- Khemani, C. L. 1981. Objectives of field visits in agricultural banking. Slate Bank of India Monthly Review. 20. (2): 85-88.
- Khemani, C. L. 1981<sup>2</sup>. Area approach in agricultural lending. State Bank of India Monthly Review. 20. (1): 32.
- Kim, Y. C. 1978. Factors affecting repayment performance on small farms: a South Korean case. Journal of Rurat Development. 1. (1): 80-95.
- Kota, S. K. and Sharma, V. 2001. Co-operative Credit-Revamping Needed. Yojana. July: 13-15.
- Krishi Vigyan Kendra Dimapur 2010. Demographic over View of Dimapur district. ICAR Research Complex, Jharnapani, Nagaland. http://kvkdimapur.nic.in/dimapur.htm [Accessed 15th February 2013].
- Kutwantsingh, Pathania and Singh, Yoginder. 1998. A study of the performance of the Himachal Pradesh co-operative banks. *Indian Co-operative Reviews*, 36 (2): 178-182.
- Kumar, G.; Khan, S. A. and Khireshu, V. R. 1989. Impact of institutional credit on income and employment- an economic evaluation of two farmers Service Society in Daksina Kannada District of Karnataka. Indian Co-operative Review. 26. (4): 43-51.
- Kumar, Rajiv. and Kaur, Jasmindeep. 2010. Financial Appraisal of Haryana State Co-operative Apex Bank. Advances In Management. 3. (12): 41-48.

- Kumar, S. and Singh, R. 2007. Impact of co-operative credit on the agriculture sector of Himachal Pradesh: a study of Mid Hill Zone. Co-operative Perspective. 42. (3): 10-13.
- Kumar, Sanjay and Dixit, R.S. 2008. Analysis of Factors Affecting the Credit Need of Tribal Farmers in India. Journal of Applied Sciences Research. 47, (2): 857-862.
- Kumar, Soni Anil. and Saluja, Dr. H. P. S. 2012. Role Of Co-operative Bank In Agricultural Credit: A Study Based On Chhattisgarh. Journal Of Research In Commerce & Management. 1. (10): 106-113.
- Kumar, Anjani.; Singh, K. M. and Sinha, Shradhajali. 2010. Institutional Credit to Agriculture Sector in India: Status, Performance and Determinants. Agricultural Economics Research Review. 23. (2): 15-23.
- Kumaran, M. and Vijayaragavan, K. 2005. Farmer's satisfaction of agricultural extension services in an irrigation command area. Indian Journal of Extension Education. 41. (3 & 4): 8-12.
- Lakshminarayana, S. K. and Adinarayana, S. 1990. An appraisal of repayment capacity and overdues of crop loans in Co-operatives and commercial bank in Kasimkota Panchayat Samiti of Visakapatnam district. Indian Cooperative Review. 27. (3): 298-302.
- Lalwani, M. R. 1984. Personnel Management of Credit Co-operatives. *Cooperator*. 2. (4): 8-9.
- Leeladhar, V. 2005. Taking banking services to the common man financial inclusion Commemorative lecture by Mr V Leeladhar, Deputy Governor of the Reserve Bank of India, at the Fedbank Hormis Memorial Foundation, Ernakulam, 2 December.
- Mehrotra, S. R. 1978. Potentialities of credit absorption and maximizing farm incomes in the arid region of Rajasthan. *Rajashau E conomic Journal*. 2. (1): 31-39.
- Memane, A. S. 2012. Performance of prim ary agriculture co-operative societies during 2000-01 to 2009-10 in India. International Interdisciplinary Research Journal. 2, (2): 253-261.
- Mishra, R. K. and Mishra, A. K. 2007. Institutional finance and farmers' indebtedness in Orissa: evidence from village study. Indian Co-operative Review. 44. (4): 281-285.

Misra, B. S. 2009. Performance of Credit Co-operatives. Research World. 6. 65-78.

- Misra, S. D. 1970. Institutional credit pattern: A case study in Kashi Vidyapith. Block of Varanasi District, U. P. Kurukshetra. 18. (4): 1-5.
- Mohan, R. 2006. Agriculture credit in India: status, issues and future agenda, Financing Agriculture. April-May: 3-16.
- Mohanty, Suchitra and Haque, T. 2003. Regional disparities in the flow of institutional credit in India. *Journal of Rural Development* (Hyderabad). 22. (1): 79-90.
- Moniruzzaman, Md. 2002. Loan utilisation pattern of Bangladesh Rural Development Board (BRDB) women co-operatives and Grameen Bank (GB) groups: a comparative analysis. *Journal of Rural Development* (Hyderabad). 21. (1): 67-83.
- Moorti, T. V.; Vashit, G.D. and Parmar, Urmil. 1988. Utilisation of Overdues of Cooperative Loans in Himachal Pradesh. Indian Co-operative Review. 26. (1): 34-38.
- Muley, S. S. 2007. Role of Co-operative Banks in Rural Credit. Co-operative Perspective. 42. (1 & 2): 31-40.
- Murthy, K. G. K. 1982. Financing Agriculture Problems and prospects. Commerce. 145, (37): 12-15.
- Muthupandian, K. 1995. A case study of Tirunelveli District Central Co-operative Bank. Indian Co-operative Review. 32. (4); 32-45.
- NAFSCOB. 2012. Performance Of Primary Agricultural Credit Societies (01 April 2010 to 31 March 2011): 5.
- Naidu, I. J. 1977. Institutional credit facilities. Kurukshetra. 26. (1): 18-20.
- Naidu, M. R and Prasad, J. V. S. 1987. Utilisation Pattern and Productivity of Cooperative Production Credit. Indian Co-operative Review. 25. (1): 17-22.
- Narayan, B. 1974. Management of Credit & Farmers Behaviour. Indian Journal of Commerce. 30, (3): 83-89.
- Natarajan, P. 2007. PACS in Kerala in search of profitability. Indian Co-operative Review. 44. (3): 234-244.
- Nicholson, F. 1983. Rural Indebtedness. In: A study of rural economics, Desai, V. Himalaya Publishing House, Bombay-4: 375-76.

- Ohha, P. D. 1989. Co-operative Sector: Some critical issues. Reserve Bank of India Bulletin. 43. (2): 175-180.
- Pancras, V. 1978. Fund Management in Co-operative Banks. Indian Co-operative Review. 15. (4): 23-27.
- Pandey, R. K. and Kumar, A. 1989. Economic evaluation of Co-operative credit in Indian Agriculture. *Financing Agriculture* 21. (1): 22-26.
- Pandey, R. N.; Aggarwal, K. and Gangwar, A. C. 1990. An analysis of repayment performance of farmers regarding agricultural loans in Kurukshetra district (Harvana). Indian Co-operative Review. 27. (1): 50-54.
- Pandey, U. K. and Muralidharan, M.A. 1977. Socio-economic factors influencing the overdues in co-operative credit societies. *Indian Co-operative Review*. 15. (2): 15-18.
- Paramasivan, C. 2008. Lending and repayment performance of primary agriculture co-operative banks. Co-operative Perspective. 42. (4): 20-25.
- Paranjothi, T. and Ravichandran, K. 2009. Co-operatives at grass-root level and eleventh five year plan approach: an overview. Indian Co-operative Review. 47. (1): 20-38.
- Patel, A. R. 1974. Problems of rural credit. Kuruksheira. 23. (4): 4-9.
- Patel, A. R. 1995. Bank approach to rural development policy prescription. Kurukshetra. 43. (10): 15-18.
- Patel, A. R. 1997. Rural Banking: Performance and challenges. *Kurukshetra*. 65, (12): 44-49.
- Pathania, K and Verma, Y. 1991. Impact of size of Loan and Types of Farmers on Co-operative Credit Utilisation. Indian Co-operative Review. 29, (2): 149-152.
- Pathania, K. and Verma, Y. 1992. Impact of size of family income and value of farm assets on Co-operative Credit Utilisation. Indian Co-operative Review. 30, (1): 42-47.
- Patil, B. V. 2005. Rural banking problems of localised banking institutions. Economic and Political Weekly. 40. (12): 1224-1228.
- Patil, R. H.; Patel, G. N.; Desai, M. M. and Patil, R. M. 1987. A study of utilization of farm credit. Indian Co-operative Review. 25, (1): 90-93.

- Patnaik, U. C. and Misra, R. N. 1991. Management of change in rural credit recovery practices. National Bank News Review. 28-34.
- Paul, James. 1987. A Study of the Operational Efficiency of Ernakulam District Co-operative Bank. Project work submitted to Kerala Agricultural University. (Unpublished).
- Prasad, A. 2006<sup>2</sup>. Primary Agricultural Co-operative Societies in India: Problems and Remedies. The Maharashtra Co-operative Quarterly, 92. (5): 6-7.
- Prasad, Bhagavati. 2006<sup>1,</sup> Co-operative banking in competitive business environment. *Co-operative Perspective*, **40**, (4): 1-8.
- Puhazhendhi, V. and Balakrishan, V. 1981. Pattern of flow of credit in Hill Farms of Tamil Nadu. *Financing Agriculture*. **13**. (2): 5-10.
- Puhazhendhi, V. and Jayaraman, B. 1999. Rural credit delivery: performances and challenges before Banks. *Economic and Political Weekly*. 34. (3 & 4): 175.
- Pujari, A. A.; Suhag, K. S.; Malik, D. P. and Kundu, K. K. 2008. Credit utilization, advancement and overdues of Primary Agricultural Co-operative Societies in Karnataka state. *Haryana Journal of Agronomy*. 24, (1 & 2): 42-46.
- Radhakrishnan, N. 2006. Co-operative credit for agricultural sector. Co-operative credit for agricultural sector. *Ph. D. thesis* (unpublished) submitted to the University of Madras.
- Rai, S. N.; Ram, S.; Behari, V. and Singh, R. I. 1975. Role of institutional credit in getting farm income (A case study in Kalyanpur Block, Kanpur District). Indian Journal of Agricultural Economics. 30. (3): 269-273.
- Rajeev, M. and Deb. S. 1998. Institutional and Non-Institutional Credit in Agriculture: Case Study of Hooghli District in West Bengal. Economics and Political Weekly. 33. (47): 2997-3002.
- Rajput, S.S. and Singh, J. V. 1977. Financing agriculture in Agra District. Rural India. 40 (7 & 8): 300-302.
- Ram, Sri.; Singh, R. t. and Prasad, V. 1978. Role of Commercial Bank in Generation of Income and Saving on farms. Indian Journal of Agricultural Economics. 23, (4): 147-152.

- Ramakrishnappa, V. and Jagannath Rao, R. 2006. Emerging microfinance issues in dairy development: A case study from Karnataka, India. International Journal of Agricultural Resource, Governance and Ecology. 5. (4): 399-412.
- Rambabu 1991. Repayment Pattern of Agricultural Credit. A study of Andhra Bank in Guntur district, A. P. Indian Co-operative Review. **29**, (2): 152-159.
- Rao, B. S. and Acharyulu, D. V. S. N. 1982. Whither Institutional finance: A study in Ngullanka Village of Razole Taluk in East Godavari District, A. P. Kurukshetra. 30, (23): 1-3.
- Rao, B.S. and Rao, C. S. 1983. Isn't Institutional credit a costly affair. Kurukshetra. 31. (16): 1-8.
- Rao, Narayan. 1974. Managerial Problems of Agricultural Co-operatives. Indian Journal of Commerce. 28. (98): 69-73.
- Ravichandran, K. and Alkhathlan, K. 2009. Financial Inclusion A Path towards India's Future Economic Growth. http://ssrn.com/abstract=1353125 [Accessed 25<sup>th</sup> October 2011].
- Ray, S. K. 2008. Availability of Institutional Credit, Change in Cropping Pattern and Agricultural Growth in West Bengal: A District Level Analysis. Indian Journal of Regional Science. 40, (1): 34-42.
- Reddy, A. 2010. Rural Banking Strategies for Inclusive Growth. http://ssrn.com/abstract=1532226 [Accessed 25th October 2011].
- Reddy, D. O. and Reddy, M. 1990. Socio-Economic Factors Influencing Default in Repayment of Co-operative Credit. Indian Co-operative Review. 26. (4): 23-28.
- Reddy, G. P.; Venkataram, J. V. and Nagaraja, G. N. 1989. An optimum resource use pattern and credit requirement for the beneficiaries of Upper Krishna Project command area of Karnataka. *Financing Agriculture*. 21. (4): 22.

Reddy, K. V. 1981. Supervised credit for Rural Development. Kurukshetra. 30 (4): 6.

- Reddy, M. J. M. 1999. Role of financial institutions in agriculture credit. Fertiliser Murketing News. 30, (8): 1-19.
- Reddy, P. Indra Sena. 1994. Financial Performance of Co-operative Banks- A Case Study. Agricultural Banker. 18. (2): 17-26.

Reddy. 1982. Rural Credit, Kurukshetra. 30. (8): 17-21.

- Reserve Bank of India. 2012. Developments in Co-operative Banking. Report on Trend and Progress of Banking in India 2011-12: 94.
- Roshan, B. and Singh, Roshan. 1980. Impact of bank finance on cropping pattern and farm income. *Financing Agriculture*. **12**. (1): 3-5.
- Roy, M. K. and Syed, S. I. 2004. Public sector micro credit programmes in Bangladesh: an analysis. *Journal of Rural Development-and-Administration*. 35. (1 & 4): 40-58.
- Roye, S. K. 1972. Study the agricultural credit movement in Assam in retrospect. Eastern Co-operative Front. (Special issue): 20-26.
- Sabarathanam, V. E. 1988. Manuals of Field Experience Training for ARS Scierntists. NAARM, Hyderabad.
- Sakthivel and Aranganathan, T. 2009. Service Marketing in Co-operative Banks: Need for Global Competitiveness. Tami Nadu Journal of Co-operation. January: 60-61.
- Samal, B. 2002. Institutional credit flow to West Bengal agriculture: revisited. Indian Journal of Agricultural Economics. 57. (3): 546-559.
- Sanderatne, N. 1978. An analytical approach to small farmer loan defaults. Savings and Development. 2. (4): 290-304.
- Sapkal, S. B.; Kumbhar, J. S. and Shinde, H. R. 2010. Borrowing and utilization pattern of co-operative credit in Satara district of Maharashtra. *Co-operative* Sugar. 42. (4): 45-49.
- Sarkale, R. N.; Sananse, S. L.; Patil, L. P. and Nalawade, A. S. 2010. Role of Satara. District Central Co-operative Bank in agriculture and rural development. *International Journal of Commerce and Business Managaement*, 2, (2): 156-160.
- Sarkar, S. C. 1974. Overdues of Co-operative Financial institutions. Journal of Indian Institute of Bankers, 45, (3): 63-68.
- Sarma, A. K. and Goswami, P. C. 1981. Rural indebtedness in Assam: A case study of Barringog Banbhag Development Block, Ghagrapar, Kamrup District of Assam. Financing Agriculture. 13. (2): 1-3.
- Satyasai, K. J. S. 1988. Flow of Institutional credit to agriculture in Deltaic Region: A case study of West Godavari District, A. P. Indian Journal of Agricultural Economics. 43. (3): 398.

- Satyasai, R. and Badatyer, H. 2000. Restructuring Rural Credit Co-operative Institutions. Economic and Political Weekly. 35. (5): 307-330.
- Saudamani, N. 1979. Regional Rural Banks Rajasthan experience. Eastern Economics. 72. (24): 128-131.
- Sawant, G. K. 1978. Borrowing behaviour of farmers in relation to their personal characteristics. Journal of Maluarashtra Agricultural Universities, 3, (1): 54-56.
- Saxena, A. K. 1983. Practice & Problems of DCCBs in UP. Indian Co-operative Review. 10. (2): 13-17.
- Seilan, A. 2006. Primary agricultural credit societies: the bank of the rural masses. Tamil Nadu Journal of Cooperation. 7. (1): 25-28.
- Selvi, Darling. 2009. Lending to Agriculture Scenario of Co-operative Banks in Kanyakumari District. Tamil Nadu Journal of Co-operation. April: 52-53.
- Sen, P. K. 2004. Co-operative credit sector in India: a crisis of confidence and tasks ahead. Co-operative Perspective. 39, (1): 21-22.
- Shah, C. H. 1978. Small farmers: policy and problems. Economic and Political Weekly 13, (42): 1771-1775.
- Shah, V. M. 1986. Planning, Research and Development in Co-operative Banks. The Tamil Nadu Journal of Cooperation. 77. (3): 11-16.
- Shankarish, A. and Rao, Madhusudan. P. 1983. Operational Problems of DCCBs. Indian Co-operative Review. 2, (10): 17-21.
- Sharad, N. Bansal, and Thakkar, Girish. 2012. Rural Credit Co-operatives in India: Responses to Reforms. *Journal of Business Management and Research*. 2. (1): 26-38.
- Sharma, A. K. and Goswami, P. C. 1983. Rural indebtedness in Assam- A case study of Barrigog Borbhag development Block Ghagrapar, Kamrup district of Assam, *Financing Agriculture*. 12. (2): 3-9.
- Sharma, N. K. 1985. Central Co-operative Banks and Short Term Agricultural Credit (A case study of Rajastan). *The Co-operator.* 22. (23): 1-6.
- Sharma, R. K.; Upta, Sonika. and Bala, B. 2007. Access to credit- a study of hill farms in 'Himachal Pradesh. *Journal of Rural Development* (Hyderabad). 26. (4): 483-501.

- Shekar, E. C.; Rao, G. V. K. and Narender, I. 1999. Impact of co-operative credit on farm income and employment in Karimnagar District of Andhra Pradesh. Journal of Research ANGRAU. 27. (4): 92-95.
- Shukla, A. N.; Tewari, S. K. and Dubey, P. P. 2010. Agricultural credit recovery performance of scheduled commercial banks. Agricultural Science Digest. 30. (2): 85-89.
- Singh, A. J. and Dhawan, K. C. 1978. Source, utilisation and productivity of agricultural credit in Ludhiana district of Punjab. Indian Journal of Agricultural Economics. 33. (4): 159-164.
- Sing, h. A. J. and Dhawan, K. C. 1979. Sources, utilization and productivity of agricultural credit in Ludhiana District of the Punjab State. Agricultural Situation in India. 34. (8): 529-534.
- Singh, D. P. and Kumar, Anil. 2003. Institutional credit gap in agriculture a case study of Bikaner District. Agricultural Economics Research Review. 16. (2): 126-134.
- Singh, G. 1995. Agricultural finance in the context of technology led development of Agriculture. Indian Journal of Agricultural Economics. 50. (1): 34.
- Singh, G. and Sukhmani, A. 2012. An analytical study of productivity and profitability of district central co-operative banks in Punjab. *Journal on Banking Financial Services & Insurance Research.* **1**. (3): **128**-142.
- Singh, Kamaljit. and Sandhu, H. K. 1980. An economic analysis of overdues in Kapurthala district. *Financing Agriculture*. **12**. (1): 12-14.
- Singh, R.and Jain, V. K. 1985. Rural banking and its challenges. Yojana. 29. (13): 6-8.
- Singh, R. I.; Prasad, V.; Prakash, B. and Singh, R. K. 1974. Borrowing behaviour of small farmers in S.F.D.A. Project, Fathehpur, U. P. Indian Journal of Agricultural Economics. 30, (3): 271-274.
- Singh, R. P. 1988. Disbursement, overdues and factors affecting repayment capacity of borrowers. Indian Journal of Agricultural Economics. 63: 433-437.
- Singh, Roshan; Singh, A. K. and Singh, Balister. 1978. Flow of Institutional Credit in Agriculture (with special reference to commercial bank finance). Indian Journal of Agricultural Economics. 33. (2): 156-157.

- Singh, S. K. and Ramanna, R. 1981. The role of credit and technology in increasing income and employment on small and large farms in Western Region of Hyderabad, Andhra Pradesh. *Indian Journal of Agricultural Economics.* 36. (3): 41.
- Singh, S. K.; Singh, R. I. and Singh, G. N. 1989. Impact of Rural Co-operatives Credit on Agricultural Development in Eastern U. P. Indian Co-operative Review. 27. (2): 198-210.
- Singh, Satendra Pal.; Singh, Balishter. and Jain, A. K. 1990. An Analysis of Factors Affecting Overdues of Agricultural Loans - A study of Agra District of Uttar Pradesh. Indian Co-operative Review, 27. (3): 32-45.
- Singh, Sukhdev.; Kaur, Maninder. and Gill, S.S. 2001. Performance of agricultural co-operative service societies in Punjab: an appraisal. *Indian Co-operative Review.* 38, (4): 243-254.
- Singha, Komol. 2010. Rural Development in India: Retrospect and Prospects. Concept Publishing Company Private Limited, New Delhi, India: 117.
- Singhal, A. K. and Singhal, L. K. 1984. Rural Banking problems and prospects. Kurukshetra. 32, (9): 16-18.
- Sinha, A. K. and Broadway, A. C. 1979. Institutional financing of agriculture with special reference to rural bank in Pippiri block District Uri (Orissa). *Atlatabad Farmer.* **50**. (4): 337-340.
- Statistical Handbook of Nagaland, 2011. Directorate of economics and statistics, Government of Nagaland.
- Subburaj, B.; Lopoyetum, S. K. and Selvam, K. G. 2003. An insight on the major operational and technical problems impinging on the growth of Primary Agricultural Co-operative Banks (PACBs) - an application of TWOS matrix analysis to formulate strategies. *Indian Co-operative Review*. **40**. (3): 203-215.
- Subharao, K. 1990. Institutional credit uncertainity and adoption of HYV technology. A Comparison of East Uttar Pradesh and West Uttar Pradesh. Indian Journal of Agricultural Economics. 35. (1): 69.
- Subramanian, S. R.; Ramamoorty, K. and Varadarajar, S. 1971. Credit needs and availability to farmers. *Indian journal of Agricultural Economics.* 26 (4): 553-558.
- Sujatha, V. 2007. Financial performance of the Krishna Co-operative Central Bank Ltd. Indian Co-operative Review. 45. (1): 9-24.

- Suryanarayana, P. and Chiranjeevulu, P. 1985. A study of utilization of farm credit. Indian Co-operative Review. 22. (4): 419-425.
- Tamuli, R 2005. Development of co-operative societies in Arunachal Pradesh. Indian Co-operative Review. 42. (3): 219-224.
- Thamilarasan, S. 2009. Impact of institutional credit on the employment, income, occupation and assets of the farmer borrowers: a case study. *Indian Co-operative Review.* **47.** (1): 12-19.
- Thanarathnam, J. J. 2006. Working of Primary Agriculture Co-operative Bank: A Case study. Southern Economist. 45, (9): 29-34.
- Tiwary, S. N. 2001. HRD priorities for co-operatives; need for re-evaluation. Indian Co-operative Review. 39. (1): 62-69.
- Tucker, S. K. 1993. Role of Education and Human Resource Development in Improving Productivity in Co-operatives. Co-operative Perspective. 22. (23): 11-14.
- Vaibhav. 2012. Understanding the Concept and Process of Microfinance. http://www.smallenterpriseindia.com/index.php?option=com\_content& view=article&id=995:understanding-the-concept-and-process-ofmicrofinance&catid= 82: featureone [Accessed 12th December 2012].
- Vaidya, M. K. 1991. Impact of Gramin Bank financing on agricultural development in District Mandi (H. P). Indian Co-operative Review. 29, (2): 136-139.
- Vaikuntha, L. D. 1988. Recovery of loans A study of District Co-operative Bank, Dharward. Indian Co-operative Review. 26. (1): 26-33.
- Vaikunthe, L. D. 1991. Agricultural Co-operative credit- Utilisation and Recovery Performance. *Indian Co-operative-Review*. 29. (1): 39-46.
- Varma, M. 1985. Central Co-operative Banks and Short-term Agricultural Credit. The Co-operator. 22, (23): 23-26.
- Varma, S. Rand Reddy, B. B. 2000. Analysis of the causes for overdues in Cooperatives under SWCCDS. Co-operative Perspective. 35, (1): 4-10.
- Venkitesan, S. 1984. The Performance of Co-operative Banks in Kerala A study on the Operational Efficiency of Primary Agricultural Credit Societies. Ph. D. Thesis submitted to Kerala University (unpublished).

- Vivek Bansal.; Suhag, K. S. and Hasija, R. C. 2003. Overdues of agricultural credit in Primary Agricultural Credit Societies (PACS) of Punjab. Environment and Ecology. 21. (1): 207- 209.
- Wali, M. M. K. 1980. How credit co-operatives fail to reach the rural poor. Kurukshetra. 28. (18): 4-7.
- Winfred, John. 1986. Funds Management Central Co-operative Banks. Tamil Nadu Journal of Co-operation. 77. (8): 41-47.
- Yerramraju, B. 2004. Revisiting the lending infrastructure and changing the mindset-critical to farm lendings. National Bank News Review, Mumbai. 20. (2 & 3): 43-52.
- Zeratsion, Fessha. 2002. Performance Analysis of Primary Agricultural Credit Societies in Karnataka. *M. Sc. (Agri.) Thesis.* University of Agricultural Science, Bangalore.

# APPENDIX

### **APPENDIX - I**

### SURVEY SCHEDULE

Name of the	:	
respondent		
Туре	:	BORROWER/ NON-BORROWER

Date :

Resp : No

### Father's Name :

### 1. DEMOGRAPHIC FEATURE.S

### 1.1 DEMOGRAPHY

SN	Name		Educ	ation				nary pation		Se	conda	ary ion	W	ork fo	rce
		II.	Pr	115	G	Ag	Se	Bai	OL	Ag	Se	Bu	Wr	EI)	D
1				1											
2															
3															
4															
5															
6															
7															
8															
9															

II- Illiterate: Pr- Primary, HS- High School; G- Graduate & above; Ag- Agriculture: Se- Service; Bu- Business: Ot- Others

W- Worker; HI- Helper; D- Dependent

### **1.2. OPERATIONAL LAND HOLDINGS**

Owned Land	Leased out	Leased in	TotalLand

### 1.3. LAND USE PATTERN (Sq. Ft)/ Land Inventories

Land Use	Area	Land Use	Area
Settled land		Livestock area	
Paddy		Forest & Plantation area	
Vegetables		Barren Land	
Fisheries		Others	
		Total	

2. CROPPING

# 2.1 CROPPING PATTERN AND VIELD

	(in)	Arca (in Sq. Ft)	Yield (in kg)	ld (g)	Consum	Consumed Value (in Rs.)	Sold o (in	Sold out value (in Rs.)
Types Crops	Presently	Before Loan	Presently	Before Loan	Presently	Beforc Logn	Presently	Before loan
(a) Rabi (winter) oct/dec - apr/jun								
(b) Karif (sumner) apr/may - sep/oct								
(c) Zaid						-		

### 2.2. COST OF CROPPING PER ANNUM

£.24	COST OF CROTTING FER AN	(in Rs.)
I.	Human Labour	- har an man
	a) Owned	New York Far With Har Y
	b) Hired	
2.	Seed/ Seedling	
3.	Chemicals	
4.	Equipment	
5.	Builock/ Machinery	
6.	Transportation	
7.	Marketing	
8.	Other	
	Total	

### 3. ANIMAL HUSBANDRY

### 3.1. ANIMALS INVENTORIES

	Animals	Nos.	reared	Value	(in Rs)
	Annaars	Presently	Before ban	Presently	Before loan
1,	Cattle				
2.	Poultry				
3.	Piggery				
4.	Goat				
5.	Others				

### 3.2. COST OF ANIMAL PRODUCTION PER ANNUM

SN	ltems	Cattle	Poultry	Piggery	Goat	Others
1.	Labour Input					
2.	Animal cost					2
3.	Chemical					
4.	Equipment					
5.	Transportation					
6,	Marketing					
7.	Other					
	Total					

### 3.3. RETURN FROM ANIMAL HUSBANDRY

SN	ltems	C	attle	Po	ultry	Pig	gery'	G	ioat	O	hers
PIC	Sold	Nos	Value								
1.	Young stock										
2.	Ma ture stock										
3.	Eggs										
4	Milk										
5,	Manure/ Dung's										
6.	Other			-							
7.											
	Total						1				

### 4 FISHERY

### 4.1. COST OF FISH PRODUCTION PER ANNUM

		(in Rs.)
I.	Human Labour	
	a) Owned	
	b) Hired	
2	Fingerlings/ Seedling	
3.	Chemicals	
4.	Feeds	
5.	Transportation	
6.	Marketing	
7.	Other	
	Total	

### 4.2. RETURN FROM FISHERY

Items	Yi	eld	Consume	ed Value	Sold out	Value
	Kg	Rs.	Kg	Rs.	Kg	Rs.
l <sub>+</sub> Fish						
2. Fingerlings						

### 5 PLANTATION

### 5.1 COST OF PLANTATION CROPS PER ANNUM

		(in Rs.)
1.	Human Labour	
	a) Owned	
	b) Hired	
2.	Planting materials	
3,	Chemicals	
4	Transportation	
5.	Marketing	
6.	Other	
	Total	

### 5.2. RETURN FROM PLANTATION

SN	liems	Home Consumption (in Rs.)	Sold (in Rs.)
1.	Timber		
2.	Fire wood		
3,	Fruit crops		
4,	Seedlings		
5,	Others		
6.			

### 6. TOTAL EXPENDITURE PER ANNUM

SN	ltems	Amount(in Rs.)
1.	Total Farm Expenditure (A) Cropping (B) Animal Husbandry (C) Fish Production (D) Planation (E) Others	
2.	Household needs	
3.	Education	
4.	Transportation	
5.	Others	
6.	Total	
7.		
	Total	

### 7. TOTAL INCOME PER ANNUM

SN	ltems	Amount (in Rs.)
1.	Cropping	
2.	Animal Husbandry	
3.	Fish Production	
4.	Plantation	
5.	Service	
6.	Business	
7.	Others	
	Total	

### **8. EMPLOYMENT GENERATED UNDER DIFFERENT CATEGORY**

Category		Employment (in nos.)		Working Days		
		Presently	Before loan	Presently	Before loan	
1.	Crop production					
2.	Animal Husbandry					
3.	Fishery					
4.	Forest & Ptantation					
5.	Others					
6.						
	Total					

# 9. MAGNITUDE: OF FINANCIAL ASSISTANCE FROM CO-OPERATIVE BANK

Scheme Name	Amount	As Loan	As Subsidy	Mode of financing	Remarks

## 10. LOAN BORROWED FROM OTHER SOURCES (OTHER THAN COOPERATIVE BANK)

SN	Amount	From	Purpose	Interest	Repayment period	Securities
	4					
_						
_				-		
-						
		. E.				

### 11. REPAYMENT PERFORMANCE OF THE BORROWERS

Amount Borrowed	Inferest. rate	Interest Amount	Amount to be napaid	Amouni pai d	Balance	Mode of payment	Remarks

### 12. UTILIZATION OF LOAN

Purpose of the Loan:

SN	Activities	Απουπ	Remarks
L	Agricultural		
2.	Cattle		
3.	Poultry		
4,	Piggery		
5.	Goatry		
6.	Fishcry		
7.	Plantation		
8.	Household Needs		
9.	Education		
10,	Others		
	TOTAL		

#### 13. PROBLEMS IN UTILIZATION OF BANK LOAN

	Problems	Yes	No
I.	Amount		
2.	Disbursement of loan		
3.	Time of disbursement	1 1 2	
4.	Others Need		

### 15. PROBLEMS FACED IN ACQUIRING BANK LOAN

1.       Knowledge about type of loan	SI	Problems	Yes	No	Remarks
3.     Form issued by the bank       4.     Filling up of forms       5.     Guidance from bank       6.     Bank process       7.     Guarantor/ Securities/ Certificates	۱.	Knowledge about type of loan			
4.     Filling up of forms       5.     Guidance from bank       6.     Bank process       7.     Guarantor/ Securities/ Certificates	2.	Knowledge about type of Banks			
5.     Guidance from bank       6.     Bank process       7.     Guarantor/ Securities/ Certificates	3.	Form issued by the bank			
6.     Bank process       7.     Guarantor/ Securities/ Certificates	4.	Filling up of forms			
7. Guarantor/ Securities/ Certificates	5.	Guidance from bank			
	6.	Bank process			
8 Others	7.	Guarantor/ Securities/ Certificates			
o, ouns	8.	Others			

#### 16. PROBLEMS FACED BY LOANERS

SI	Problems	Yes	No	Remarks
Ι.	Amount			
2,	Disbursement of loan			
3.	Time of disbursement			
4.	High Interest rates			
5.	Repayment period	-		
6.	Supervision			
7.	Knowledge & Skill			
8.	Insects pest & diseases			
9.	Funds & capital			
10,	Marketing			
11.	Transportation			
12.	Others			

# (FOR BANK OFFICIALS)

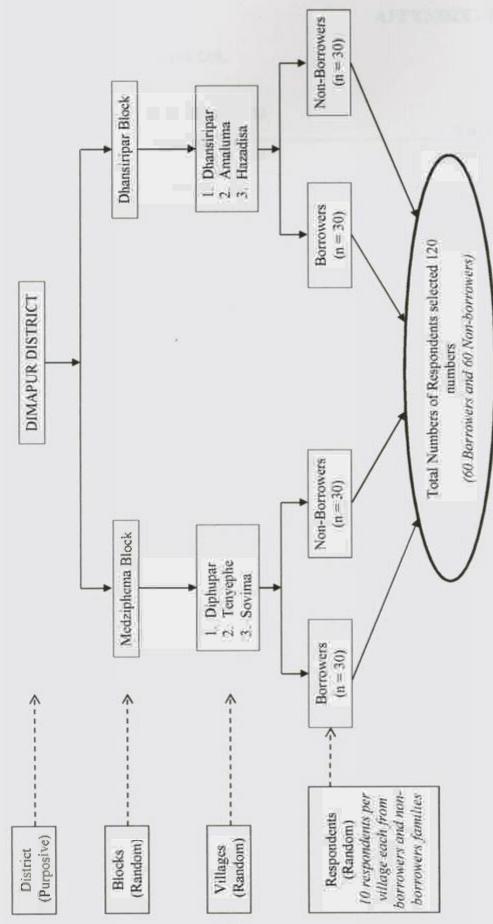
## **1. TERMS AND CONDITIONS**

Invitation of application			
Loan and subsidy amount		2	
Rate of interest			
Securities	10.3.9.11		
Repayment period			
		4	

## 2. PROBLEMS FACED BY THE BANKERS

### **3. SUGGESTIONS**

1	
0	
2	
S	
H	
OF	
ND	
ESI	
9	
NG	
PCI	
M	
S	



A10

**APPENDIX - II** 

### **APPENDIX - III**

#### Nagaland State Co-operative Bank Ltd. Dimapur: Nagaland

#### BUDGET AT A GLANCE as on 31 March 2013

(? in Lakh) Revised Estimated SN Head of Account 2007-08 2008-09 2010-11 2011-12 2012-13 2013-14 2006-07 6544.55 3888.94 5690.80 2802.43 4816.79 1 Income 1548.05 2398.50 5264.57 5880.84 2742 42 3827.38 4729.32 2 Expenditure 1912.01 2373.54 663.71 3 Net Working Result -363.96 60.01 6156 8747 426.23 24.96 9825600 Target of Deposits 22597.40 2310.50 36683.45 85449.00 4 16218.45 18726.34 18726.34 2310.50 36683.45 42172.00 48491.00 (a) Normal 1621845 22597/10 (b) Ambitious 0.00 000 0.00 0.00 000 43277.00 4976500 5406.34 5919.28 633980 8232.37 13209.04 15185.00 17132.00 5 Fresh Lending Fresh Borrowing 131 31 89.66 74.39 1013.82 1027.98 1269.13 136913 6 Target of Loan 7 335193 3698.84 422000 4720.00 635.08 230725 308775 Recovery Other Capital 3062.89 329008 3549.49 3760.00 4000.00 8 3008.72 3117.48 Recepts Other Capital 39715 9 93.41 9E.37 325.69 164.85 213.27 49705 Exac-inditure Investment in 2422186 30000.00 35000.00 Approved Securities 9946.42 10920.74 14:025.51 23568.54 10 &Others

### APPENDIX - IV

## Nagaland State Co-operative Bank Ltd. Dimapur: Nagaland

### HUMAN RESOURCE DEVELOPMENT as on 31 March 2013

SN	Particulars	2006-07	2007-08	2008-09	2009-10	2010-11	201 1-12
1	Resigned	0	0	1	0	2	1
	(a)Officers	0	0	0	0	0	0
	(b)Others	0	0	1	0	2	1
2	Superannuated	3	1	0	0	3	4
	(a) Officers	2	1	0	0	2	3
	(b)Others	1	0	0	0	I	1
3	Availed VRS	8	8	2	4	0	1
	(a) Officers	3	ī	1	3	0	0
	(b)Others	5	7	1	ī	0	1
4	Terminated	1	2	0	Ð	0	0
	(a)Officers	0	0	0	0	0	0
	(h)Others	1	2	0	0	0	0
5	UnderCRS	0	0	0	0	0	0
	(a)Officers	0	0	0	0	0	0
	(b)Others	0	0	0	0	0	0
6	Expired	1	0	1	2	1	2
	(a)Officers	0	0	0	1	0	1
	(b) Others	1	0	1	1	1	1
7	Total Strength as on 31-3-11	222	229	230	230	224	2.32
	(a) Officers	44	54	71	67	75	82
	(b)Others	178	175	159	163	149	150
8	Of which cadre on deputation to JCDP	2	0	0	0	4	4
	(a)Officers	1	0	0	0	2	2
	(b) Others	1	0	0	0	2	2
9	Employee Recruited	3	18	S	6	0	0
	(a) Officers	0	3	0	0	0	0
	(b)Others	3	15	5	6	0	0
10	Staff undergoing Training	31	27	40	85	50	59
	(a) Officers	17	12	25	36	31	44
	(b)Others	14	15	15	49	19	15

### APPENDIX-V

## Nagaland State Co-operative Bank Ltd. Dimapur: Nagaland

## BALANCE SHEET as on 31 March 2012

FREVIOUS YEARASON 31032011	AMOUNT (Rs)	CAPITAL AND LIABILITIES		AMOUNT (IIs)	CU RRENT YEARAS ON 31.43.2012
AND A CARLEY		1. CAPITA Iz			
		i) Authorized Capital	Sec.		1.
90000000000		1,00,000 "A"Cla es shares o ( Rs. 5000/ -ca ch			9000000000
9300000000		9.50 ,000 B' Ches share of Rs. 1000/ -such			\$50000000.0
150000000.00		3,00 000°C°C is as sharesof Ra. 500/-cash(Nominal)			150000000
0000000000000				3	22000000000000
and a state of the		in Interibud Carlin I			
		14,485' A'ch te that anof R = \$000/ -one h			
		25115'B' cinerah ar caof Rs. 1000/-6 sch			
		71096 'C' classish statof R s. 500/ -es ch			
		Ill Amonutes lledensyn id up on			
		53,585 shares of Ra 5000/-eachings of hungard			
		atRa0 25 machon 36,000 shates.			
		26,534 share set Rs. 1000/ -a sublission in unpaid			
		alkaD.06esshon 1000 shatet			
		1,11,138 abar a sofRa 500/-cashie as calls uspand			
		stRe0.66 cachos 1000 shares			
		Of (iii)a bove held by>			
		n) Individuals			
	2 51148 40.00	b) Co-oper sitve lastingtings -1571 Socializes		26533 940.00	
	267 921000.08	a) Sinte Covernment		272 421000.00	
	355 47 5 39 00	d) Others (Nom mal Mambers )		51568939.00	
329868 379,88	425000-00	e) Share Cagel Daposi			354948879.00
******* 1 * 3/9 m	DO SOACEN			425000.00	3347468/7.94
		2.RESERVE FUND AND OTHER RESERVES			
5506 916 .78		i) Statutory Reserve		550691628	
6274656.00		a) Agricult um CraditS tabilitat ion Fond		646289600	
973484386		iii) Building Fund		1107164246	
16 9829 91		iv)D ividend Equiples timeF and		1.696299(	
1018013.60		v)SpecialBed()ebbsReter ve		10(8913.60	
1146343206		vi) Badand DoubtfulD, bis Ra serve		h663432.06	
1220048 90		will are started Depresenting Reserve		12200 4890	
110231794134					
		viii) Provision for NPA a		134831294.34	
\$165017.24		in) Provision for 1 stor -Branch A dju also ent		\$865087.24	
98367050.10		*)Provision for O the cansols		8733146273	
1619862174		Ti)Other Fundas adR eserves (tobe specified)		1615768474	
	28773891	s)ShareCental Re demptosF and	267738.01		
	22763400	b)SMFDA Rick Fand	227634 00		
	8665249.59	e)Coursi Reas rvs Fred	240 5195 59		
	3941.25	OAgriculture Role(F and	394125		
	500000.00				
		g) Ravolvin gF and	50000000		
	2000000.00	b) Rahn hilitationFund	2:0000000		
	236174.77	i) Rovin on of PayFand	23617477		
	4591.32	DV olutta ry Retiransent Fend	4591.37		
	31.4535.24	k) Propose & D widend	31448574		
	119028-65	DCo-ops a live D a velopment F and	11902865		
	924778.36	mi StaffWelfareFued	100049536		
386550294.54	2915000.00	n)Provision for Qratisity	5058000.00	the second	283298889,16
		3 PRINCIPAL/SUBSID IN BY STATE			
		PARTNERSHIP FUND ACCOUNT:			<u></u>
		For share as pitalof			
		i) CantialCo-opelative Banks			
		<ul> <li>Primary agric ultural or edit sociation</li> <li>iii) O therse cintura</li> </ul>		1.5	
		4 DEPOSITS AND OTHER ACCOUNTS:			
11.011.0.000		<b>AFIXEDDEPOSITS</b>	10000	All the second second	
1147141663.61	13.6.6645864 61		56490264.11	12 5977 346411	
	-	b)Cr mira IC o-operative Banks			
	282700.00	a) O ther 5 ocid till a	1282 700 00		and the second second
		Balance Carried Over			

PREVIOUS YEARABON	ANGLAST	FROPERTY & ASSETS		ANO UNT	CUBRENT YEAR ALON
31032011	(8.)			(#8.)	31.63.3413
		I.CARH:			the second s
	399071 02.20	O Cosh inband		M6208 91.69	
a second second second	210136.3 (	6) With Report of Banker Inde		11.013 6.31	
#9156353.90	49139112.47	66) W ith 2: 10 2		46983974.07	100775006,0
	243 70994.05	2. BALANCE WITH OTHER BANKS		699212 9205	
	17535389.94	<ul> <li>In Saving Bank Deposit</li> <li>E) CS CI. Linked Current A/C with TC/CI Rank.</li> <li>iv) First 4D sports -</li> </ul>		10 761791 73	
	416222102.00	n) Wma%B1	13747 5606 00		
043031258.01	390702713.00	b)W ah Commerce iB asis	283076534.00	420552140.00	5013432157
		Note: FD anreacked (atbook -value) town rds			100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	\$501327.00	a)S ration y Reserver	#885262.00		
	7593-483.00	hiA C'S Funt	70 36418.00		
	3711716.00	o)Building gand	34 7945100		
	262178.00	d) D heite seift up flicht abrie D (b	274019.00		
	20068807.00	Total	20975150.00		
		20915150-00			
		3.M ONEY AT CALLAND			
		SHORTNOTICE:			
	432 SE 2325,00	6 Win 8 B I		51 4741732.00	
357633131.BB	325049616.00	With O they Banks	-	414101133.00	ID 044400310
		A INVESTMENTS			
	857629 24400	() In Court al and State () oversimply		9924 39150.00	
	als cold a watering	Sederatura (at Sock Value )		4474 J41300V	
		N# 100 W No. *****	104049000000		
		h Martelvalue - Ruliosoasooodo	100000000000		
	30000000				
		N) II have a see a oppose two in standows other than in game (3) be low		-	
	\$00000000	w) Other to we state on it (to be speedfied )		\$00000000	
	\$00000000	(A) UTI Contra Pand - 488997555 Units	\$00000000		
		5) FRGG-29Md -RelEe9975.53 6)Marker value -ReE156919.52			
004420242100					BB 7400100,00
		5. INVET THENTOUT OF THE			
		FRINCIPALISU BRIDIARY STATE PARTNERSHIPFUND:			
50.00		lashara of QC== to ICo-ope to two B pairs			
		With the ry ages ubwellered it sociation			
		e interestion and the second second			
2010018 71 57		S. ADVANCES		and the second second	
201001171 37		Dünsefsterm hann, onthe radius,		226224391.52	
		over draft and bills demonster d			
		Of which assured against			
		a) Govi. and other approved securities			

PREVIOUS YEARASON H 01 2011	AMOUNT (Re)	CAPITAL AND LIADI	LITIES		AMOUNT (R1)	CURRENT YEARAS ON 31:43.2412
615558673.54		BalaaceBraagh#Zorword A)Ap uxBanks				638247688.1
	282700.00	2) Societie & O thers C)Pr im ar y Coop. Banks	1282 780.00			
17 593 706 6 6 17	1731474217.24	ajSA VINGS BANK DEPOSITS Binda thata bjC antratCo-operativeBanks	-	1920135566.23	2034913096,56	
	27896449.33	a)O ther Socie ties A)Ap ex Hanks		54777530.33		
	27758134 0 y 1383 15.26	B)Socknes& Othens C) PrimeryCuop Banks (UCB)	54 77216907 5361-26			
9 21 751 50,98	81417101.24	ini CURRENT DEPOSITS a) Individua (s b) Centra ) Coloperatives Bank J		73613 847,19	74023251.93	
	475804976 398000 475206974	a) Othor Sociation A) Ape 3 Banka B) Societ in s& Others C) Primetry Comp. B# nks(UCB)	598000 40342474	40940474		
12925 9450.55	129259450.35	iv)MONEY ATCALLAND SHOR a)Individuals b)C satra ICo-operative Banks	NOTICE	171414802.75	171414802.75	
		<ul> <li>a) Other Socie t lies:</li> <li>A) Apex Banks</li> <li>B) Societites &amp; Others</li> <li>C) Primary Coop Banks</li> </ul>	-	-		
103103305.56	81 6717 59.00 81 6 717 59.00 109807 \$2.00 10980 794.36	v)OTHER DEPOSITS n)R conving D eposit A)OfIstividual B)OfStaff b)Othertypes of thorntally depositsche c)Staff Service Deposit	9960825500 	9960885656 1592 4614.00 126 86436.56	128219906-56	
231650237.27	and the second se	1 BOBROWINCE		-		366 83 44 5 21,9
9446900094	2000000000 7400000000 469000000	5. BORXOWINGS; ) From NABARD n) Short-ouren ioam (SAD) u/s 21(13) h) Schommetric toam (ARP) u/s 25(13) sc u) 1 mEnstructure est issance e under CD ii) From State Bank of India	ANBA et 1981	37510000.00 58000600.00 375205.00	95885200.00	
	:	iii) From State Government a) Short-termioan b) Modiana-termioan		:	:	
6912 550.00		w)Fram Orber Scences (NSTFOC)		ŀ	691255000	102797 756,00
666730,66		4 BHLLS FOR COLLECTION BILLS RECEIVABLE (A S				\$35744,00
12995145.17		7. BRANCH ADJUSTMENTS		100		13826223,41
114997742.84	102127112-11 1287063073	<ul> <li>a. INTEREST SUSPENSE;</li> <li>Onlogwhich towards</li> <li>a)Overdae Interastraceixable</li> <li>b)Oa palafised Interestin NPA a/</li> </ul>			117154215.33 11471734.25	128675949.51
07 46 58 87 E4 2		Balance Carried Over	2			4551957877.13

PERVIOUS YEARASON 31632011	AMOUNT (Rr)	PROPERTY & ASSETS		AMOUNT (25)	CURRENT YEAE ASON 31.00.3013
2553449826.59		BulaaceBussght Ferward			254331 9310.4:
	201 00 (873.57	b)Othugtan gibines utims	226534251-12		
	145083915.11	Of theadynacco, um contduction indu.	16582 177.04 5		
		Of thes des seas, a mount due from liquidated	a manual an a sea o		
		ROCINTING			
	102426314.37	Orthead vances, an onato vertige	220380845 50		
	85 939060 .37	Of thead the data of the other	101423021.44		
	22400244.57	Considered had & doubt fuln free gvary	22400244,67		
		- domented who we described the granty	10 100 446,01		
62035109401		ii) Modiana.tevmioano		1092602692.17	
		Of which success diaga in at			
		a Shu a see bro rege radioben tvoD(a			
	62013109401	b) O the stan gible on cort and	1092 40269 217		
	\$07996377.98	Of thes dynases, smooth i deaft om inde	9273192398		
		Of the advances, amount dwaft on basids to d			
		locilities			
	86 58152.00	Of the advances, an ous sate hand &	845033200		
		inmedby NSTEDC through NSCB (chemat-	#43 039 Zon		
		This a sence v)			
	141269 508.39	Of theadvances, a mount over des	166829 176.32		
	204926438.39	Of the save book, a mount of NP A	24196 9487.31		
	740321367	Considered bad & doubth lofrecovery			
	790221207	Commerceded & potena louiscovery	74 03 213.67		
2084436.00		iii) Lewis-regardon as		176700100	
		Of which so co to de ga inst			
		a)Goviand othersprovediestres	1.1		
	2024486.00	h) Other tann blesse griftes	1767001.00		
	197522300	Of the advances, an ount due from o du	1641603.00		
		Or these waters a, a mount die from liq undertail	-		
		SOCIETIN I			
	10226300	Off handve scar, sch ounig verdag	102 243 00		
	10126300	Of thend years as amount of NPA	102263.00		
	102263.00	Con sider a dhed & doubt faile fr cany at y	102263.00		
		W) Amu au I coce ly ab te from Ool under	10220200		
121237-45 1.50		Agrica katel Dabt Walver Schemy 2008			132 49 439 44. 25
13 904 580 200		7. INTEREST RECEIVA BLEI			124 45 427 441 1
Sector Street Sector	139045807.00	O Colorad & styness		16925297 76 1	
		Ostof which.		(DV 1 269 7 4D 1	
	10212711211	BILL ONNPA A/CE	11715 62 15 33		
	36918694 10	b)] st. ObStandardA/CI	43098 76 228		
E E	NIL	Of which are rdue Rs. 11715 4215.33	43076 /0 160		
1944110511		Considered bid & doubtful of recovery R. NIL			
326484912.11		WORteventments (accrueffut not due)		131202434.00	191455411/6
			1	· · · INUL 43 · · · ·	121455411761
		& BILLS RECEIVABLE BEING BILLS			
646730.00		FOR COLLECTION (AS FER CONTRA)			11 5744.00
					11
-		9. BRANCH ADJUSTMENTS			
\$4347638.99		18. PREMISES [Less Depreciation]			53291603.99
		IL.FIXEDA PLOATING ASSETS			
		[Lens Depr son tion]			
	2415151.00	i) Forn tored a paintee		266949100	
	456689.00	é) Motor Vahicle		13850 8600	
	165077700	inOffice Machinety Items & Babiomonts		258588800	
	1002.965.00	iv)Com paleri		1570251 91	
6531542.00			H	1379431 71	1211714.91
666719331.27		Balance CarriedOver		-	421720 1731.65

PREVIOUS YEARASON 31,032011	AMOUNT (RL)	CAPITAL AND LIABILITIES	AMOUNT (Ra)	CURRENT YEAR AS ON 31.03.2012
4076650078.82		Balance Brought Forward		4551957877.13
		9. INTERESTPAYABLE:	-	
ALL STREET, ST	121370049.12	a)OuDeposits	162523733.63	
128950 673.12	758042450	b) On Barr orwings	79421.50.00	170465883.63
	-	. OTRER LIABILITIES & PROVISION		
	40000.00	a)Nabard Scheidy (R WHS)	-	
	4736981.89	b)SundryCreditors	14773969.19	
	628750.00	c)ShareaSuppense	572950.00	2
	165000.00	d)Provision for Audit fee	00.00000	6
	295273.00	e)Professional Taxpayable	176926.00	1
	1582249.38	()Provident Fund payable	-	8 1 1 1 1 1 1
	32318.00	g)G.S.L.I assistance premium mysble	19898.00	
	49639 500	h)Provision for TDS rofund receivable	\$17263.00	
	2055336.00	(Contingent Provision for Standard Assets	3755336.00	
	-	)Drafts Payable	70236.00	
-	3256975.00	KiSubsity Reserve FundAccount	3737243.00	
- N	-	hDemend Drak	21145.00	
	-	m)Bank-Adjustment	1409084,00	
	-	n)AccountUn-reconciled	1976.00	
13289281.27	-	o)OutstancingLinhity	6586380.00	31742406.1
		IL PROFIT & LOSS ACCOUNT		
(a. 1	0	Profit as per last balance -sheet	1	1
	-	Less: A ppropriations		
	-	Add: Profit for the year brought		
	1	fram P&L Account	1	)
	-	12. CONTINGENT LIABILITIES		
	-	i) Outstanding induities for guarantee issued		
	-	ii)Others -		
218889833,21		GRANDTOTAL		4754166166.95

Dates DIMAPUR 25th Sept. 2012

> Sd/-B.K.THADANI MANAGING DIRECTOR

Sd/-T.IMKONGLEMLALONGKUMER DIRECTOR

Sd/ RAJUSEI, RE LHOUSA VICE-CHAIRMAN

PREVIOUS YEARASON 31,03,201 1	AMOUNT (Rs)	PROPERTY & ASSETS	AMOUNT (Rs.)	CURRENT YEAR AS ON 31.03.2012
3666719331.27		Balance Brought Forward		4217206731.65
		12. OTHER ASSETS		
	8520421.57	i)Suspense	11550784,08	A CONTRACTOR OF A
	896155.82	Stock of Printed Materials & Stationery	1248668.R2	
	22000.00	Security Deposit with Post& Telegraph	22000.00	
	2447186.83	iv) I ncome TaxRefund Receivable	247952483	
	35942119.53	v) A mortizing Investment under US-64	26267508.66	1
	800000.00	vi)Assistance Receivable from State Govt.		
	2267858.00	vi)Disputed Income Tax, with I.T.Deptt,	2267858.00	
		viii) Staff PFC Pending A djustment	60179.62	and the second sec
	28495159.77	ix)Sundries	28498 59.77	
		x) Amountrealisa biefrom staff		
	967735.00	(a)Festivaladvance 11146(3.00		1
	354154.00	(b)T.A.advance 436556.00	1551 169.00	1
	182523.02	xi) Selary Sa vings A/C pending adjustment	224726.32	
	123600.00	xi)Advance Payment of Income-Tax	262303.00	
	2481816.00	xiii) Disputed P.F.C.	2481816-00	d
	17398.00	xii)Books & Periodicals	18163.00	
	4698200	xiii) Interestrelis ( receivable	4698700	
	1070100	xiv) Receivable from SLite Govt.(Historicoutsa Institutional Debta)	4096 AA/	
		xv)Account Un-recording	-	
311243763.98	2766494844	attravel outsevend	27800022.44	The state of the s
112-01-05.70	LIGOTINGT		-	104779870.54
		12. NON-BANKING ASSETS		
		ACQUIRED IN SA TISFACTION		
		OFCLAIMS		
		13. PROFIT& LOSS ACCOUNT		
	447083077.79	Accumulated isses	440926737.96	
	03.0	Add: Loss transferred from P & L Appropriation A/C	0.00	
440926737.96	6156339.83	Less: Profit for the year broughtfrom P& LAccount	87 47 173 20	432179564.76
218889833.21		GRAND TOTAL		4754166166.95

#### AS PER OUR REPORT OF EVEN DATE ATTACHED AJT K. JAIN & ASSOCIATES, CHARTEREDACCOUNTANTS

Sd/-TOSHI AIER, IAS CHAIRMAN

Sd/-AJIT K. JAN

YEAR 2019-2011	ANOUNT (Rs.)	EXPEND:TURE	AHOUNT (Rs.)	CURRENT YEAR 20 11.2012
1.		T) intelant paid oo da poulte , barrawings, éta.		
	134532366.06	a) Init, Oneepo aita	1838 6347 9.3.2	
	2778644.88	e) Init On Bong wings	6635 790. 11	
28 8 12 2 10 8.88	1474 1509400	c) Inite a inter-branch	170/10370.00	348244678
		2) Seisries, 6) in what bank dp ray 1688		
	1	een ributio e		01012000.0
		3) Director's & locals.committee member's		
2.2		faastellowsnaar		
	3910000	a) (Sitzing Foru	23405.00	
	91248.50	ð) Mostingsspenses	4117.00	
417853.50	9335300	c)Travelingalio wenze	1126 18.00	
-	1539200	d)Annisa General Maailingespens aa	8444200	441677.4
3466194.76	1	d Rang, fabra) faberdaad, lighting, ate.		242 3888.8
211333.2D		f)Lewshu/gas		33 444.8
001601.00		6}Postsge, telegram & lelephone charges		101486.
		7) ABdit See		10.4444.4
192020.72		4) Stationary, printing Addvertisment, atc.	1.1	118.071.6
\$ \$ 3 3 7 12,6 2		If Depreciation on and repairs toproperty		400.0100.0
		10) Loss from sale ofor da aling with Non-		
		banklaganan ta		
		%) Other Expenditure:		
	55441.84	= )Commiélon&excetange	77877.05	
	764251.00	the T.A.Io II att	0026900	
	41877.218	c) Miecellaneouse spendhurs	454682891	
	7968592.88	d) A martizatio a of inv estimati loss	00 76 3E 3.07	
	000	e j A montavité n Expenditure on Investment	000	
	54044300	DEx-G rete	3235 4420	
	15530600	g) Subscription	38050000	
	1558900	h)C'AntringHou sell entpeld	104 12600	
	69 (6000.00	i) Premium to r Shelf Greatelly Fund	08 47 27 200	
	2269692.00	k) Oupo sRinauranan premiura	2845730.09	
	702204:00	DL covice Antenna	25 1643 (00	
	0.00	III) Paymenti on VE & CR Schemps	055880.00	
	5027 84.43	BLO B DRA/COLODCS	1053214.65	
046000.34	0150.30	<ul> <li>Direction able states written-off</li> <li>1218<sup>2</sup> row inits in</li> </ul>	1649763.84	33 423 7 37,6
	182757.00	4 Miteres IProvision for A CE Fund		
	0238 8.00	b) For Overdue & unrania admiterat	198240,00	
	000	c) For investigation and an analysis and an analysis	15 2307 69 .74	
	1175415.00	d FarNPAs	4 0000000 +	
	000	D ForOliteramela	4 0000000 +	
20424 2.00	749274.00	© Fot&landard amels	50000000	212184 4474
6262774.83		13)ProtitoeforsPriorPeriodProvisionald		
26430 10		B		496888888.01
8156339.83	10	Paym entitioneds Prio?Perioditema Biscosca (Prom: Ironstanta) (d. Biscoscipet		40-10-10
FIFTIZIT				

Dated DatAPUR 25th Sept 2012 SdF ELK.THADANI MANAGING DIRECTOR

Sd/-TJMKONGLEMLALONGKUMER DIRECTOR

Sd4 RAJUSELIE LHOUSA VICE-CHA'RMAN

PREV10U8 YEAR 2810-2019	AMOUNT (Rs.)	INCOME	ABOUNT (Ra.)	CURAENT Y EAR 30 115 2012
240330579.42	89955652.6 1 1026813344.00 429984008.41 10281984.00	The factor of the const;         a) bitt, and a min find which as         b) bitt, and a min find which as         c) bitt, an istanticated bit	111793044.67 19363382 3 10 170 19370.80	47 BB 87 158.1
4113224.76 376669.69		2) Commission.nxcscsgs&brokersgs 3) Subsiolesendedsctions		26 67 206.7 34444 4,4
	22 4400.00 W4325200 244347 104 S40000 602836789	<ul> <li>4) Incomerromnen - hoskingkesetst Profik (Pensaleer daaling with tach assats</li> <li>5) Other Receipts: i) Nember's administrative fi) kold collecta union rees by 100 for the source of the source with collecta union from a same with collecta union from a same.</li> </ul>	226 53600 226544 .43 4676585.31 42000 7035547.38	*
12269748.86	20930.00 3508.50	vill) locan etcom: 7 reding of Securitien Loj-Prior Purior Linux, (72,3 it etuad) x) internation: LT/R etuad	000	10087782.1
		AjNat Loss transformá 10. bulonce sheel		
337718437.18				
and the second s	Contraction of the second			426226326.40

\_\_\_\_\_

f Loss transforred in B slasceSheet RÅR

1111122.30

ASPEROURREPORT OF EVENDATE A IT ACHED FOR AJIT K. JAIN & ASSOCIATES, CHARTERED ACCOUNTANT

Sdi-TOSHI AIER, IAS CHAIRMAN

Sdi- AJIT K. JAIN

NS	Darthantone	Crop Production	oduction	Animal husbandry	Animal usbandry	Fishery	(Lia	Piantation	ation	Others	ers	Overall	rall
NIC		Before	After	Before	After	Before	After	Before	After	Before	After	Before	After
Α.	Employment (Mandays / Annum)												
1.	Low (<70)	1	0	1	0	1	0	1	0	1	I	5	-
5	Medium (71-272)	10	6	30	28	80	7	5	5	0	0	53	49
3.	High ( 273 >)	-	3	1	4	0	2	0	1	0	0	2	10
	Total	12	12	32	32	6	6	9	9	1	1	09	60
B.	Income (Rs. / Annum)	_											YB
Ι.	Low (< 48,431)	1	0	1	0	2	0	2	0	-	1	9	-
2.	Medium (48,432-59,636)	11	80	31	27	7	9	4	4	0	0	52	48
3.	High ( 59,637 >)	0	4	0	5	0	3	0	2	0	0	2	11
	Total	17	17	27	27	0	0	9	9	-	-	60	60

A21

**APPENDIX - VI** 

# CURRICULUM VITAE

The author of this manuscript, KEVIU SHUYA, s/o N. SHUYA, was born on the 2<sup>nd</sup> Jan 1980 at 4<sup>th</sup> Mile, Dimapur, Nagaland. He passed out his HSLC Examination in the year 1997 from High Mountain School, Signal Angami Dimapur under Nagaland Board of School Education and HSSLC Examination from Union Christian College, Meghalaya under Meghalaya Board of School Education. He passed out is B.Sc (Agri.) from School of Agricultural Sciences and Rural Development under Nagaland University during 2004 and also his M.Sc (Agril, Economics) in the year 2006.

After which he worked under ICAR (Indian Council of Agricultural Research) ad-hoc Scheme in the establishment of Nagaland University, in the Department of Agricultural Economics, Medziphema Campus as SRF (Senior Research Fellow) during the period May 2007 - Sep 2009. He later joined Agricultural Technology Management Agency in the capacity of Deputy Project Director, under Support to State Extension Programmes for Extension Reforms' Scheme, department of Agriculture & Co-operation, Ministry of Agriculture, Government of India.

He registered his Ph.D on 14<sup>th</sup> November 2008, a part time, started his research work since then and completed all necessary requirements in July 2013.

LIBRARY Magatani University SASED : Medziphema

Signature Marino