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CHAPTER _ FIVE _

ANALYSIS AND INTERPRETATION OF THE DATA :

5.1 INTRODUCTION :

As per directives of Reserve Bank of India and the bye-laws of Sangli Urban Co-operative Bank Ltd.; Sangli, loan policy is determined. While doing so, the provisions of the Banking Regulation Act, 1949 and the Co-operative Act are taken into consideration. The loans are advanced to the members, so also to the nominal members of the bank for the various developmental purposes - small industries, Cottage industries and other productive businesses. Similarly loans are also advanced to traders and Small entre--prenuers in the priority sector. Consumption loans are advanced to the customers to eliminate their family diffi--culties and facilitate the family life mainly by advan--cing hire - purchase loans for the purpose of two wheelers, T.V.; Refrigerator and other similar mechanical appliances.

More particularly, in this chapter, the researcher has made an attempt micro-level statistical study of the loans advanced by Sangli Urban Co-operative Bank Ltd.; (Main branch) Sangli to transport, agriculture and trade in possible details. In the above three areas she has tried to examine the different purposes for which the loans have been advanced and how far the bank has succeeded in serving

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the purposes kept before eyes. Secondly, she has tried to know the nature and progress of the above types of loans during the period 1983-84 to 1987-88. She has also tried to trace out the drawbacks and weaknesses in the loan policy and attempt is made to suggest measures for impro--vement.

5.2 PROCEDURE OF ADVANCING LOANS :_

Sangli Urban Co-operative Bank Ltd., Sangli has formulated its own procedure in regard to the advances of the loans. Applications are accepted for loans and are scrutinized. Then the process of getting securities for loan is completed and finally the loan is being sancti--oned. Documentation, follow-up, Supervision and Control procedure is strictly adopted.

After receiving all the information and data from the applicant for the loan, his loan proposed is submitted to the higher officer for further action and necessary recommendation. Then the loan proposal is submitted to the Board of Directors for final sanction or otherwise. Proper and correct documentation is an important factor for the safety of the bank advances. Documentation includes three important major parts -Stamping, Execution and Registration. This bank seems to be very sensitive in following the principles of safety, liquidity and profitability. At the same time it has tried to serve social need oriented cause of up-lifting weaker section of the society. The bank has made significant efforts in serving the national socio-economic developmental cause and enhance national income by providing the banking facilities in different needy areas of Maharashtra.

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5.3. PURPOSES OF LOANS SANCTIONED :

The bank has been sanctioning loans to its members, customers, servants etc. for various purposescommercial, agricultural, transport, small and medium scale industrial development, housing (construction and repairs), domestic consumption and education etc. The rate of interest is charged as per directives of Reserve Bank of India as well as bye-laws of the bank.

5.4 OVERALL VIEW OF THE BANK BUSINESS :

Sangli Urban Co-operative Bank Ltd.; Sangli has made determined efforts and significant progress during the period 1983-84 to 1987-88. Hence, the researcher has first made overall review of the bank business during the above stated period.

L a L L L L L L L L L L L L L L L L L L	No.of Share- holders	Share Capi- tal	Total Depo- sits	Working Capital	Total Out- stan- ding Loans	Total Out- -stan- dome- -stic	Total Out- -stan- ding Hous-	Total Out- -stan- ding Prio-	PRIORITY Fotal Out- -stan- -ding Small	-	Total Outs- -tand- -ing Agrifed	Total Reserves and other Funds	Total s Inve- -stment	Total Net Profit	Admin- -istra- -tive Expe- nses	% to %or- king Cap- ital	-dend Amo- -unt	A CL Div- -id- dist- rib-	A uut. Cate -gory
-		m	4	ъ	ę	LOANS 7	LOans 8	sector Loans 9	Traders Loans 10	. LOANS 11	-Itural Loans 12	13	14	15	16	17	18	-uted 19	20
1983-84	17393	35 . 83 1	20 87 . 88	2590.38 1	1761 °1 4	532.18	388.00	573.37	108.97	216.17	32 •24	173.31	141°39	17.93	62.17	2.4	3.90	12	A
1984-65	20164	37 •83	2682 .99	3289.57 2	2053 。 68	647 °98	548,44	718.69	204 .44 2	220.45	70.47	212.71	743.63	20.61	85 . 53	2+6	4. 4 5	12	A
1985-86	23195	38°65	3338.14	4197.88 2	2633。60	818,75	667 • 40	934.18	253.08	195.73	54.24	252.46	872.29	25.30	109.15	2.6	4.52	12	4
1986-87	25985	39.21	4346.046	5347°46 3	3619•64	940°62 1	1010.00 2	2038.77	710.88 3	359,58	114.52	268, 39	922.40	32.12	139.03	2•6	5.72	15	A
1987 - 88	27787	40°59	6066.87	7297.94 5	5320°64	1258.03 1	1087.50 2	2896.55	577.53 3	386.78	142.60	313.52	1141.96	35•46	197.22	2.7	4.63	12	A
SOURCE : ANALYSIS	а ^ц а ,	e fi	s complied figures of	from the this tabl	igure are	the band	k records easing tre	and annual end.	al re	of the	bank.								
	2) 3)	The figure: Percentage	τ 1	of Net Profit to Working Cap	are tak ital =	from 100	the Profit	an	A/c. of stration	d Loss A/c. of the bank. Administration Expenses									
						en buryjow	Lapital		ч										
	4)						Trade												
				1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				₽ •• •• ₽ ₽ ₽ ₽ ₽									
				Traditiona	Ч	Sector			Δ ₁	Priority Sec	Sector	د بیر ۱ ۱							
									- 142 100 100 100 100 100 100 100										
								Economically Weaker Section	11 y				Economically Sound Section.						
									·										

The above table reveals that significant progress and achievement in banking business during the period of study.

The number of shareholders has been increased 17.393 during the year 1983-84 to 27.786 during 1987-88.

Share Capital has been increased from Rs. 35.83 lakhs in 1983-84 to Rs. 40.99 lakhs in 1987-88.

More particularly, the bank has made eye-catching progress in case of mobilising the deposits from the public. The deposits have gone up from Rs. 2,087.88 lakhs to Rs. 6,066.87 lakhs i.e. more than $2\frac{1}{2}$ times within the shortest span of 5 years.

Working Capital of the bank also has been impressingly increased from Rs. 2,590.38 lakhs to Rs. 7,297.94 lakhs i.e. nearly 3 times.

The bank has shown outstanding loans Rs.1,761.14 lakhs during 1983-84 and it has shot up to Rs. 5,320.64 lakhs during 1987-88. These figures clearly show that the outstanding loans are rapidly increasing and have become more than 3 times during the study period.

The bank has made very liberal advances to the middle class and lower class people for meeting their

domestic difficulties and the outstanding domestic loans during 1983-84 amounted to Rs. 532.18 lakhs and the figure has gone up during 1987-88 to Rs. 1,258.03 lakhs i.e. nearly 2½ times.

The bank in general through all its branches has advanced housing loans to the people in the lower and middle class stratas of the society and more particularly to the bank servants too. This is an impressive step taken by the bank in response to the national social cause. The total outstanding housing loans amounted to Rs. 388 lakhs during 1983-84 and the figure shot up to Rs. 1,087.50 lakhs during 1987-88. This is more than 3 times increase during the study period.

According to the directives of the Reserve Bank of India the bank has been advancing loans to the priority sector. During the year 1983-84 the bank had advanced Rs. 573.37 lakhs to the priority sector and it has been continuously increasing and found to be Rs. 2896.55 lakhs during 1987-88. Outstanding priority sector loans have gone up more than 5 times during the study period.

The bank advanced to the small traders were Rs. 108.97 lakhs during 1983-84 and the amount shot upto Rs. 577.53 lakhs during 1987-38 i.e. nearly more than $5\frac{1}{2}$ times. The loans advanced to transport during 1983-84 were Rs. 216.17 lakhs and the figure went up during 1987-83 to Rs. 386.78 lakhs. The increase during the study period is more than $1\frac{1}{2}$ times. Similarly the outstanding loans of allied agricultural activities amounted to Rs. 32.24 lakhs during 1983-84 and the amount went up to Rs. 142.60 lakhs during 1987-88. The increase is nearly 5 times during 5 years period.

The bank had developed its reserves of Rs. 173.31 lakhs upto the year 1983-84 and they went upto Rs. 313.52 lakhs during 1987-88. Only during the period of 5 years the increase of reserves is found nearly double.

The investments of the bank upto 1983-84 were amounted to Rs. 141.39 lakhs and during the 5 years study period it shot upto Rs. 1141.96 lakhs by 1987-88. The increase of the investments is nearly 8 times.

The net profit of the bank during 1983-84 was Rs. 17.93 lakhs and it increased to Rs. 35.46 lakhs by 1987-88. The profits actually doubled during 5 years period.

Administrative expenses during 1983-84 were Rs. 62.17 lakhs and the figure went upto Rs. 197.22 lakhs during 1987-83 i.e. the expenses actually increased more than 3 times and the percentage share of the admini--strative expenses in the working capital was 2.4% during 1983-84 and it went on increasing upto 2.7% during 1987-83.

The dividend amount of the entire bank during 1983-84 was Rs. 3.90 lakhs, and the bank had distri--buted 12% dividend during the same year. Dividend amount also went on increasing gradually upto 4.63 lakhs by 1987-88 and the bank was distributing 12% dividend during all the 5 years period except during 1986-87 in which it had distributed 15% dividend on account of more increased profit. - 69 -

Table No.2 reveals the picture of the percentage share of loans of the different major areas in total outst--anding loans during the 5 years' study period.

During 1983-84 total outstanding domestic loans amounted to Rs. 532.18 lakhs which is 30.21% in the total outstanding loans. The domestic loans went on increasing gradually to Rs. 1,258.03 lakhs by 1987-88 and the % share during the said year in total outstanding loans was 23.64%. In this connection it is worth noting that the percentage share of outstanding domestic loan was 31.55% during 1984-85 and 31.08% during 1985-86 i.e. revealing an increase but the % share during 1986-87 was 25.98% which shows stri--king decrease and during 1987-88 it went down to 23.64%.

The % share of the outstanding housing loans in the total loans stands at 11.64 during 1983-84, 64 during 1984-85, 21.10 during 1985-86, 24.59 during 1986-87 and 27.47 during 1987-83. This clearly shows that the % of housing loans has been constantly increasing during all the 5 years period.

The % share of outstanding trade loans in the total outstanding loans during 1983-84 stands at 22.03, during 1984-85, at 26.70 during 1985-86 at 25.34, during 1986-87 -27.90 and 1987-88 - 20.43. The % share went on increasing from 1983-84 to 1986-87 but decreased strikingly during 1987-88.

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The share of priority sector loans in total outsta--nding loans upto 1984 amounted to 32.55%. From 1983-84 onwards it went on increasing. During 1984-85 it was 34.99%, 1985-86 - 35.47%, 1986-87 - 56.32% and during 1987-88 - 54.43%. Striking increase in percentage share is found during the last two years period of study.

Share of priority sector small - traders loan in the total outstanding loans amounted to 6.18% upto 1984. It went on increasing during the study period - during 1984-85 - 9.95%, 1985-86 - 9.60%, 1986-87 - 19.63% and 1987-88 - 10.85%.

The share of total outstanding transport loan forms 12.27% upto 1984. It is a striking thing that the % share of the transport loan went on decreasing during the study period. It was 10.73% during 1984-85, 7.43% during 1985-86, 9.93% during 1986-87 and 7.26% during 1987-88.

The share of allied agricultural loans in total outstanding loans stands at 1.83% upto 1984. During the study period it is found increasing during 1984-85 - 3.43%, 1985-86 - 2.05%, 1986-87 - 3.16%, and 1987-88 - 2.68%.

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			SANGLI URBAN CO	COLOP. BANK LIPP.	SANCI.T	
	ι ι ι ι	Table Showing	The Picture	Transport L in lakhs)	Growth	During 1983-84 To 1987
Year	Total Work- -ing capital	Total outs- -tanding Loans	No. of Acco- -unts of Transport Loans	Total outs- -tanding Transport Loans	% share of Transport Loans in Working	* share of Transport Loans in total loans
····	2	ι ι ι ι ι ι	· · · · · · · · · · · · · · · · · · ·		σ	7
1000 0%)))		• • • • • • • • • • •	•		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
1983-84	2590.38	1761.14	418	216.17	8.34	12.27.
1984-85	3289.57	2053.68	537	220.45	6.70	10.73
1 985 - 36	4197.88	2633.60	508	195.73	4.66	7.43
1986-87	5347.46	3619 .64	835	3 59.58	6.72	56°6
1987 -88	7292.94	5320.84	1110	386.78	5.29	7。26
SOURCE :	Figures of t	table are	en from the bank	records and	annual reports of	• •• •• •• •• •• •• •• •• •• •• •• •• •
ANALYSIS	••					
1) %	share of transport	loans in	Working Capital	=100 Working Capital	tal X	Transport loans 1
2) %	share of transport	loans in	total loans =	Total loans	X	Transport loans 1
•			•,			

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The figures of % and average amount is showing decrease in 1984-85, 1985-86 and 1987-88.

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37-88. Average amount of Transport loans on each account (Rs. in Thousands) 38529.52 34845.04 43063.47 41052.14 51715.31 œ • : .

Table number 3 reflects the picture of growth of transport loans during the study period of 5 years. Upto the year 1984 the bank had advanced total loans to the tune of Rs. 216.17 lakhs and the amount has gone upto Rs. 386.78 lakhs during the year 1987-88. Though the amount advanced to transport operators seems to be increasing during the study period, the percentage share of transport loans in total cutstanding loans, in working capital has gone down during the study period. The share of transport loan in total loans stands at 12.27% by the end of 1984 and then after 10.73% during 1984-85, 7.43% during 1985-86, 9.93% during 1986-87 and 7.26% during 1987-88.

Similarly, the share of transport loans in working capital was 8.34% by the end of 1984. It came down to 6.70% during 1984-85, 4.66% during 1985-86, and again little raised to 6.72% during 1986-87 and again fallen down 5.29% during 1987-88.

It is worth noting that the average amount of transport loans on each account stood at Rs. 51,715.31 thousands during 1983-84. It reduced down to 41,052.14 thousands during 1984-85, 38,529.52 thousands during 1985-86, but during 1986-87 it again slightly raised to Rs. 43,063.47 thousands and during it reduced down to Rs. 34,845.04 thousands. This reveals that bank has foll--owed cautious policy of advancing loans to transport area during the study period.

		ANALYSIS	SOURCE		1987–88	1986-87	1985-86	1984-85	1983 -84	-• · · · · · · · · · · · · · · · · · · ·			
2) % s	1) % si	: SIS	: Above		7297 。94	5347.46	4197.88	3289。57	2590 .3 8	1. 1. 2 2 		Working Capital	
share of agricultural	share of agricultural		figures are taken	". ° †• †•]•]•	5320 .84	3619.64	2633.60	2053 .68	1761.14	· · · · · · · · · · · · · · · · · · ·	loans	-nding	Total
ural loans to total	loans to Work		from the bank records	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2261	1957	006	1009	500	د ۲۰۰ ـ ۲۰۰	-ltural Loans	⊅⊁	No. of acco-
loans =	ng Capital =		ds and annual reports	* ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	142.60	114.52	54.24	70.47	32.24		Loans	Agricultural	Total outsta-
Total Loans	Working Capital		rts of the bank.	• • • • !• !• !• !• !• !• !•	1,95	2.14	1.29	2.14	1.24		in working Capital		 % share of Allied Agricul-
Agricultural Loans 1	Agricultural Loans 1				2.68	3 . 16	2.05	3,43	1.83	· · · · · · · · · · · · · · · · · · ·	1) LOCAT TOWNS	ים (י ום	% share of Allied Agricu-
·].].].]. [.].].].].].].].].].	6306.94	585 1.81	60 27.00	6984.00	6448.00			Loans on each account	Average amount of Allied Agricultural



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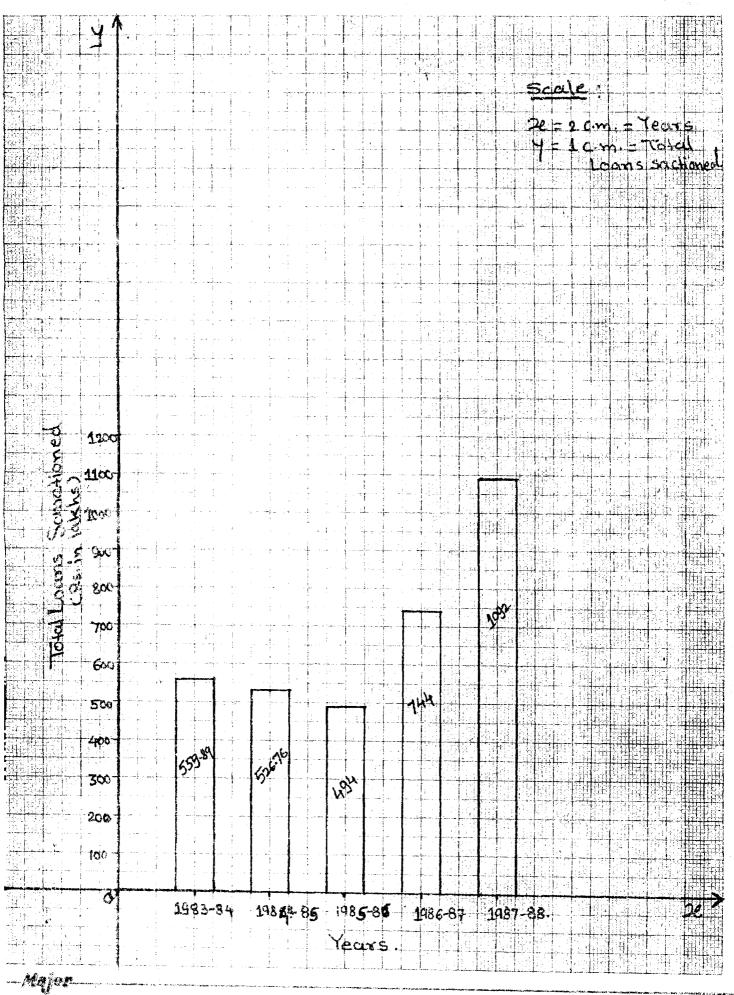
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Table No. 4 presents the position of allied agricu--ltural loans during the period 1983-84 to 1987-88. The agricultural loans advanced by the Sangli Urban Co-operative Bank Ltd., Sangli have been increasing markedly during the period 1983-84 to 1987-88. By the end of the year 1983-84 total outstanding allied agricultural loans at Rs. 32.24 lakhs and they increased to 70.47 lakhs during 1984-85 but to some extent fallen down to Rs. 54.24 lakhs during 1985-86 and again sharply risen to Rs. 114.52 lakhs during 1986-87 and Rs. 142.60 lakhs during 1987-88. This clearly shows that bank's contribution to agricultural development of allied areas is appreciable.

The % share of allied agricultural loans in total outstanding loans and so also in total working capital has been found increasing strikingly during the study period of 5 years. The share of allied agricultural loans in Working Capital stood at 1.24% during 1983-84, 2.14% during 1984-85, 1.29% during 1985-86, 2.14% during 1986-87 and 1.95% during 1987-88.

In the same manner share in total leans was Rs. 1.83% during 1983-84, 3.43% during 1984-85, 2.05% during 1985-86, 3.16% during 1986-87 and 2.68% during 1987-88.

The average amount of agricultural loans on each account seems to be near about constant during the study period of 5 years. It stoud at Rs. 6448.00 thousands during 1983-84, Rs. 6984.00 thousands during 1984-85, Rs. 6027.00 thousands during 1985-86, Rs. 5851.81 thousands during 1986-87 and Rs. 6306.64 thousands during 1987-88. Though the amount of agricultural loans on each account is nearly about same during the 5 years but in fact total agricul--tural loans advanced during 5 years period have gone up near about 5 times and the total number of beneficiaries also has increased 4½ times i.e. 500 to 2261.



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Table No.5 shows the picture of trade loans' growth during the period starting from 1983-84 to 1987-88. Upto the end of 1983-84 the trade loans amounted to Rs. 388.00 lakhs and this figure went on remarkably increasing during the 5 years period. It stood at Rs. 548.44 lakhs during 1984-85, Rs. 667.40 lakhs during 1985-86, Rs. 1010 lakhs during 1986-87 and Rs. 1087.50 lakhs during 1987-88. The amount increased about 2½ times. In the same manner total number of trade accounts also went on increasing from 1250 in 1983-84 to 5795 in 1987-88. This increase is nearly 5 times and the share of trade loans in total loans is found moving in between 20.43 to It was 22.03 during 1983-84 and then it raised sharply 27.90. 26.70 during 1984-85 and fallen down to 25.34 during 1985-86 and reached the peak point - 27,90% during 1986-87. But it is found suddenly falling down to 20,43 during 1987-88.

The share of trade loans in Working Capital gives the similar impression. It was 14.97% during 1983-84, 16.67% during 1984-85, 15.89% during 1985-86, 18.88% during 1986-87 and 14.90% during 1987-38. On the whole trade loans' policy looks to be well framed.

Priority sector small trade loans have been found increasing during the study period - 1983-84 to 1987-88. They were Rs. 108.97 lakhs during 1983-84, Rs. 204.44 lakhs during 1984-85, Rs. 253.08 lakhs during 1985-86, Rs. 710.88 lakhs during 1986-87 and Rs. 577.53 lakhs during 1987-88.

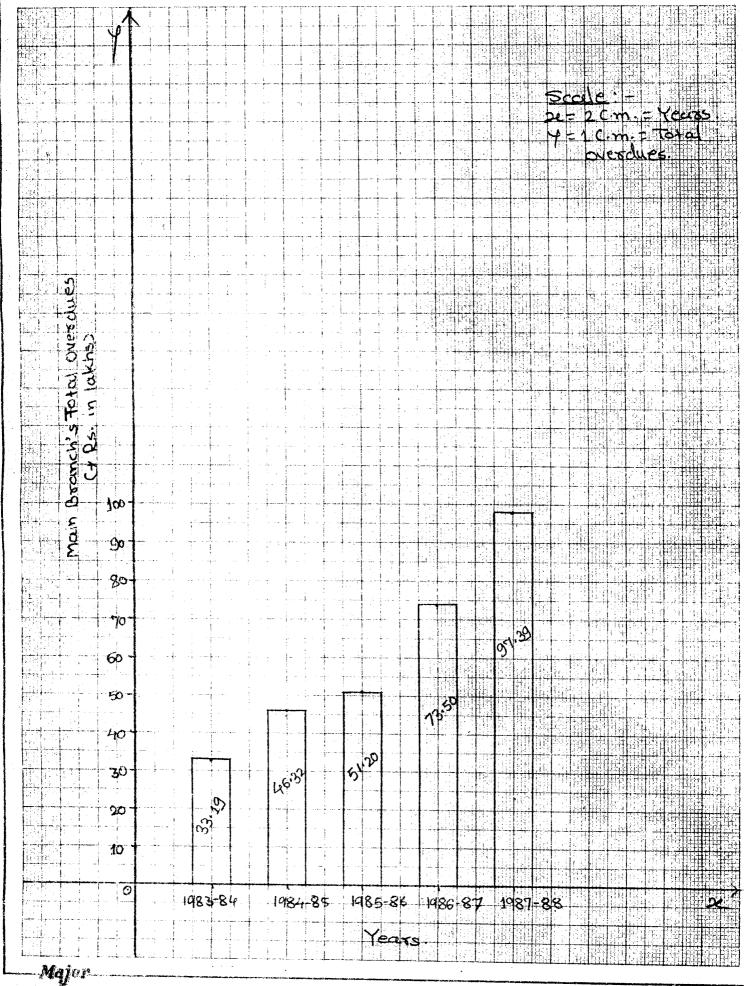
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The share of priority sector small trade loans in total trade loans stood at 28.08% during 1983-84, 37.27% during 1984-85, 37.91% during 1985-86, and it sharply increased to 70.38% during 1986-87 then it fallen down to 53.10% during 1987-88.

Similarly, the share of priority sector small trade loans in working capital too reflects the same picture. During 1983-84 it was 4.20%, during 1984-85 - 6.21%, 1985-86 - 6.02%, during 1986-87 it raised to 13.29% and during 1987-88 again fallen down to 7.91%. All these analytical points suggest that the provision of priority sector small trade loan has been made much better than that of transport loan by the bank.

5.5 MICRO_LEVEL STUDY OF MAIN BRANCH OF THE BANK _

The researcher has completely consentrated on her micro-level study of the advances of the main branch to transport, agriculture and trade. Hence, naturally it would be proper to take into consideration the contributory share of the main branch to the total banking business of the entire Sangli Urban Co-operative Bank during the period 1983-84 to 1987-88.



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This table reveals the business share of the main branch in the total business of the entire bank during the 5 years study period.

To trace out the share of the main branch 5 important components -

Deposits c) Working Capital ъ) Share Capital a) Loans and e) Net Profit have been taken into consided) -ration. During the five years' period share capital of the entire bank has increased from Rs. 35.83 lakhs by the end of 1983-84 to Rs. 39.99 lakhs during 1987-88. That means about 4 lakhs of total increase of the entire bank is noted. At the same time the share of main branch in the total share capital of the bank stood at Rs.7/- lakhs upto the year 1983-84 and by the end of 1987-88 it increased to Rs. 8 lakhs i.e. an increase of 1/- lakh Rs. share capital is made by main branch. Out of the total increase of Rs. 5 lakhs of entire bank Rs. 1 lakh increase has been contributed by the main branch. That means 1/5th of the share in the total share capital increase of the entire bank is made by the main branch. And when we look at the actual share capital contribution, the % share stands at 19.35 during 1983-84 and it has gone upto 20% curing 1987-88.

The deposits of the entire bank during the study period of 5 years have gone up from Rs. 2087.88 lakhs during \$83-84 to Rs. 6066.87 lakhs during 1987-88. At the same time the deposits of the main branch have been raised from Rs. 522 lakhs during 1983-84 to 1213.90 lakhs during 1987-88. The share of the main branch in the total deposits of the entire bank stand at 25% during 1983-84, 25% during 1985 and the slightly fallen down to 20.01% during 1985-86, 20.01% during 1986-87 and 20% during 1987-88. During the last 3 years of the study period the share of the main branch reflects 20% deposits' contribution to the entire deposits of the bank.

The Working Capital of the entire bank was Rs.2590.38 lakhs during 1983-84 and it has gone upto Rs. 7297.94 lakhs during 1987-88. The share of the Working Capital contribution made by the main branch stands at Rs. 650-10 lakhs during 1983-84 and it has gone upto Rs. 1461.65 lakhs during 1987-88. The share of the main branch in the total working capital of the entire bank is found to be 25.09% during 1983-84, 20.00% during 1984-85 and then fallen to 20.05% during 1985-86, 19.27% during 1986-87 and 20.02% during 1987-88.

Total loans of the entire bank amounted to Rs.1761.14 lakhs during 1983-84 and the figure shot upto Rs. 5320.84 lakhs during 1987-88. The total loans advanced by the main branch during the same period stood at Rs. 559.89 lakhs during 1983-84 and the amount went upto Rs. 1092.00 lakhs during 1987-88. The share contributed in advancing loans by the main branch stands at 31.79% during 1983-84, and it fallen down to 25.64% during 1984-85 again it came down to 18.75% during 1985-86, 20.55% during 1986-87 and 20.52% during 1987-88.

The net profits of the entire bank during the 5 years period amounted to Rs. 17.93 lakhs during 1983-84 and the figure went upto Rs. 35.46 lakhs during 1987-88. In this amount the contribution of net profit made by the main branch was Rs. 4.50 lakhs during 1983-84 and the amount went upto Rs. 7.09 lakhs during 1987-88.¹ The share of the main branch stands at 25.09% during 1983-84, 25.03% during 1984-85, then it fallen down to 20.00% during 1985-86, 20.01% during 1986-87 and 19.99% during 1987-88.

Broadly speaking the share of the main branch in the entire business of the bank is about 1/5th in general. Hence, the researcher has pinned her attention to the aspect of making micro-study of the main branch as it holds key position.

If the business trends of the bank prevailing during the study period remain similar; the loans likely to be advanced and the profits to be earned by the main branch during the future period 1988-89 to 1994-95 - can be calculated by Regression Method as follows -

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Total Loans Sanctioned by the Main Branch.

Year	Total Loans the bank (s sanctioned Y)	by the m	ain br	anch of
	(Rs.	in lakhs)	••••		-
1983 -8 4	· · · •	559 。89	Names of a second s		
1984-85		526,76		1	
1985-86	•	494,00		ì	
1986-87		744.00			an 1 a mar
1987 - 88		1092.00		4	
	Total	3416.65		t. Î	•

Forecasting of Total Loans Sanctioned for 1988 to 1995 with the help of Regression Analysis.

x	(x₋ ⊼) x	x ²	Y	(Y_¥) (_Y)	x ²	XY
1	-2	4	559,89	123. 44	15237.4	246.88
2	-1	1	526 .76	-156.57	24514.1	156.57
3	0	0	494.00	-189.33	35845.8	
4	1	1	744.00	60 .67	3680.8	60.67
5	2	4	1092.00	408.67	167011.1	817.34
15	0	10	3416.65	0	246289.2	1281.46
x	= <u><u><u></u><u></u><u></u><u></u><u></u><u>N</u></u></u>	= 1	<u>5</u> = 3°	$\overline{Y} = \overline{X} $	= 3416.65	= 683,33

 $byx = \frac{\mathbf{x} \cdot \mathbf{y}}{\mathbf{x} \cdot \mathbf{x}^2} = \frac{6.45}{10} = 0.64$

The equation of line of regression of Y on X	
$= Y - \overline{Y} = by (X - \overline{X})$	
• Y = $683.33 = 128.14$ (X = 3)	
When $X = 6$	
Y = 683.33 = 128.14 (6 = 3)	
. Y = 683.33 = 128.14 (3)	
Y = 683.33 = 348.42	
° Y = 1067.75 (1988-89)	
When $X = 7$	
Y = 683.33 = 128.14 (7-3)	
Y - 683.33 = 128.14 (4)	
° Y - 683.33 = 512.56	
° Y - 683.33 + 512.56	
• Y = 1195.89 (1989-90)	
When $X = 8$	
Y = 683.33 = 128.14 (8 = 3)	
Y = 683.33 = 128.14 (5)	
° ¥ = 683.33 = 640.7 ° °	

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° Y = 683.33 + 640.7
• $Y = 1324.03$ (1990-91)
When $X = 9$
Y = 683.33 = 128.14 (9 = 3)
Y = 683.33 = 128.14 (6)'
° Y - 683.33 = 768.64
• Y - 683.33 + 768.64
• Y - 683.33 + 768.64
° Y = 1452.17 (1991-92)
When $X = 10$
Y = 683.33 = 128.14 (10 - 3)
Y = 683.33 = 128.14 (7)
° Y - 683,33 = 896,98
° Y - 683.33 + 896.98
° Y = 1580.31 (1992.93)

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When $X = 11$	1
Y = 683.33 = 128.14 (12-3)	
. Y - 683.33 = 128.14 (9)	
• Y - 683.33 = 1153.26	
• Y = 683.33 +1153.26 • •	
• Y = 1836.59	(1994 95)

Forecasted Figures

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Year	Total Loans sanctioned by the main branch of the bank (Rs, in lakhs)
1988-89	1067.75
1989 -90	1195,89
1990-91	1324.03
1991-92	1452.17
1992-93	1580.31
1993-94	1708.45
1994 - 95	1836.59

Net Profits of the Main Branch

Rs. in lakhs

Year (X)	Net Profits of the main branch (Y)
1983-84	4.50
1984-85	5.16
1985-86	5.06
1986-87	6 .43

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1	9	8	7	-8	8

•	7.09
	ويت في الله حد جنو حد
Total	

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Forecasting of Net Profits for 1988 to 1995 with the help of Regression Analysis.

x	x	x ²	Y	У	y ²	xy
1	-2	4	4.50	-1.14	1.29	2.28
2	-1	1	5.16	-0-48	0.23	0.48
3	0	0	5.06	-0.58	0.33	0.00
4	1	1	6.43	0.79	0.62	0.79
5	_2	4	7.09	1.45	2.10	2.90
15	0	10	28.24	0.04	4.57	6.45

$$\bar{X} = \frac{\Sigma X}{N} = \frac{15}{5} = 3$$
 $\bar{Y} = \frac{\Sigma Y}{N} = \frac{28.24}{5} = 5.64$

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Coefficient of regression of Y on X

by
$$x = \Sigma xy = 6.45 = 0.64$$

 $\Sigma x^2 = 10$

The equation of line of regression of \boldsymbol{Y} on \boldsymbol{X}_{\bullet}

=
$$Y = \overline{Y}$$
 = byx (X = \overline{X})
 $Y = 5.64 = 0.64$ (X = 3)

When X = 6

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Y = 5.64 = 0.64 (6 - 3) Y = 5.64 = 0.64 (3)

		- 88 -		
	• Y	- 5.64 = 1.92		
	• •	= 5.64 + 1.92		
	• } • •	z = 7.56	(;	1988-89)
ł	When $X = 7$			
		Y = 5.64 = 0.64 (7 - 3)	•
	• · • •	Y = 5.64 = 0.64	(4)	
				1
	с С С	Y = 5.64 = 2.56		۰. ۴
	0 0 0	Y = 8.20		1989-90)
	When X = 8			
		Y = 5.64 = 0.64	(8-3)	• •
	• •	Y = 5.64 = 0.64	(5)	
	0 0 0	Y = 5.64 = 3.20		
	• 0	Y = 8.84	(1990-91)
	When $X = 9$,	
		Y = 5.64 = 0.64		•
	0 0 0	Y = 5.64 = 0.64	(6)	, ,
	• •	Y - 5.64 = 3.84	4	
	•	Y = 9.48	(1	991-92)

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When $X = 10$
Y = 5.64 = 0.64 (10 - 3)
Y - 5.64 = 0.64 (7)
• Y - 5,64 = 4,48
• $Y = 10.12$ (1992-93)
When $X = 11$
Y = 5.64 = 0.64 (11 - 3)
Y = 5.64 = 0.64 (8)
° Y - 5.64 = 5.12
Y = 5.64 + 5.12
° Y = 10.76 (1993-94)
When $X = 12$
Y = 5.64 = 0.64 (12 - 3)
Y - 5.64 = 0.64 (9)
° Y - 5.64 = 5.76
• Y = 5.64 + 5.76 • •
• Y = <u>11.40</u> (1994-95)

-89-

	F	orë	cas	ted	Figures
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Year	Profit (Rs. in lakhs)
1988-89	7.56
1988 -90	8.20
1990-91	8.84
1991 -92	9.48
1992-93	10.12
1993 ≈94	10.76
1994-95	11.40

RESULT : If the trend of profit remains same, the position of profit in the years 1988-89 to 1994-95 will be shown in the above table.

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O	1988-34	1984-85	1985-86	1986-	87	193	37-8	8					ze.
			Years										
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The above table presents the view of transport loans advanced for different types of transport vehicles by the main branch of the bank during 1983-84 to 1987-88. Here we find the detailed account of advances made to different types of transport operators and their percentage share in the total teansport loans.

Upto the end of year 1983-84 there were 105 number of accounts of total transport operators. It increased to 124 during 1984-85, 120 during 1985-86, 167 during 1986-87 a nd 222 during 1987-88. The total amount of transport loans advanced by the main branch stood at Rs. 53.04 lakhs upto the end of 1983-84, it slightly increased to Rs.55.11 lakhs during 1984-85, then sharply fallen down to Rs. 39.15 lakhs during 1985-86 and again gone upto Rs. 72.00 lakhs during 1986-87 and Rs. 77.36 lakhs during 1987-88. This amount has been divided into the advances made to the different category of transport operators.

The total number of accounts of trucks/delivery vans⁴ operators was 6 by the end of 1983-84 and it went upto 10 during 1984-85 and 1985-86. Again it gone up sharply to 26 during 1986-87 and 34 during 1987-88. The total amount adva--nced to this type of transport operators was Rs. 35.00 lakhs upto the end of 1983-84, Rs. 36.00 lakhs during 1984-85; Rs. 26.00 lakhs during 1985-86 and it gone up to Rs. 46.00 lakhs during 1986-87 and Rs. 47.00 lakhs during 1987-88.

The share of the truck/delivery van loans in total transport loans stands at 65.98% upto the end of 1983-84, 65.32% during 1984-85, 66.41% during 1985-86, 63.88% during 1986-87 and 60.75% during 1987-33.

Though the number of accounts of truck/delivery van operators appear to be increasing during the study period, Actually the amount advanced to them has not been increased in the same proportion. When we look at the % share of loans advanced to truck/delivery operators, it was initially 65.98% upto the end of 1983-84 and actually came down to 60.75% by the end of 1987-88. The % share has not been much disturbed. It is moving in between 66.41% and 60.75%.

During the study period the total no. of loan accounts of taxi/tempo/rickshaw operators stood at 34 upto the end of 1983-34; it bacame 44 during 1984-85; reduced to 40 during 1935-86 and increased to 51 during 1986-87; to 68 during 1987-83. Actually the amount advanced to this type of transport operators was Rs. 11 lakhs by the end of 1983-84; Rs. 12 lakhs during 1984-85; and was reduced to Rs. 8 lakhs during 1935-86, then raised again to Rs. 18 lakhs during and to Rs. 20 lakhs during 1987-88. The share of the this type of loans in the total transport loans was 20.73% during

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1983-84; 21.77% during 1984-85; 20.43% during 1985-86; then it went upto 25% during 1986-87 and 25.85% by the end of 1987-88. The number of accounts the total amount advanced to and the share of this type of transport operators has been found gradually increasing during the 5 years study period.

The number of accounts of the two wheeler borrowers was 65 during 1933-84; 70 during 1984-85 and 1985-86; then it raised to 90 during 1986-87 and 120 by the end of 1987-88. The amount advanced was Rs. 7.04 lakhs during 1983-84; k.7.11 lakhs during 1984-85; then it reduced to Rs. 5.15 lakhs dur--ing 1985-86; and to Rs. 8.00 lakhs during 1986-87 but again increased to Rs. 10.36 lakhs by the end of 1987-88. The share of two wheeler borrower in the total transport loans stands at 13.27% during 1983-84; 12.90% during 1984-85, 13.15% during 1985-86; 11.11% during 1986-87 and 13.39% during 1987-83. By the above analysis it is clear that the advances to the two wheeler owners stand nearly in the same proportion without radical changes. The % share moves roughly between 11 and 13%.

If the business trends of the bank prevailing during the study period remain **similar**, the total transport loans likely to be advanced by the main branch during the future period 1988 to 1995 can be calculated by Regression Method

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- 95 -

as follows :

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Total Transport loans sanctioned by the Main Branch

(Rs. in lakhs)

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Year				sport loan th of the l	ns sanctione bank (Y)	d by
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1983 - 8	34			53.04		
1984-8	35			55.11	. :	
1985-8	36			39.15		
1986-	87			- 72.00		· -
987-8	8			77.36		
			rotal	296.66	*	
				· · ·	•	
	(X_X)	•••	Ψ - Ψ · Ψ ·····* ♥ ····♥ ····♥ ····● ♥ ···● ♥ ··•● ♥ •·•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ ··•● ♥ •·•● ♥ ♥ ··•● ♥ •·•● ♥ ♥ ··•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ •·•● ♥ •·•● ♥ ♥ •·•● ♥ ••● ♥ ♥ ♥ •·•● ♥ ••● ♥ ♥ ♥ ••● ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥ ♥	(Y_Y)		
x	x	\mathbf{x}^2	Y	Ŷ	y ²	xy
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X •	· •	x ²	¥ •		y ² ,	хў -, -, -, -, -, -, 12, 58
• • • •	X 			Y -, -, -, -, -, -,	,	,
1		4	53.04	¥ -6.29 -4.22	39.56	, - , -, -, -, -, -, -, -, -, -, -, -, -, -,
1 2	x 	4	53.04 55.11	¥ -6.29 -4.22	39.56 17.80	, -, -, 4, 4, -, -, 12, 58 4, 22
1 2 3		4 1 0	53.04 55.11 39.15	Y -6.29 -4.22 -20.28 12.67	39.56 17.80 407.23	, -, -, -, -, -, -, 12, 58 4, 22 0
1 2 3 4	x -2 -1 0 1	4 1 0 1 4	53.04 55.11 39.15 72.00	Y -6.29 -4.22 -20.28 12.67 18.03	39.56 17.80 407.23 160.52	-, -, -, -, -, -, -, 12, 58 4, 22 0 12, 67
1 2 3 4 5 15	x -2 -1 0 1 2 0	4 1 0 1 4 10	53.04 55.11 39.15 72.00 77.36 296.66	Y 	39.56 17.80 407.23 160.52 325.08 950.19	-, -, -, -, -, -, -, -, -, -, -, -, -, -
1 2 3 4 5 15	x -2 -1 0 1 2 0	4 1 0 1 4 10	53.04 55.11 39.15 72.00 77.36 296.66	Y -6.29 -4.22 -20.28 12.67 18.03	39.56 17.80 407.23 160.52 325.08 950.19	-, -, -, -, -, -, -, -, -, -, -, -, -, -
1 2 3 4 5 15 N = 15		4 1 0 1 4 10 x ²	53.04 55.11 39.15 72.00 77.36 296.66 $= 10;$	Y -6.29 -4.22 -20.28 12.67 18.03 0.01 $Y = 296.6$	39.56 17.80 407.23 160.52 325.08 950.19	-, -, -, -, -, -, -, -, -, -, -, -, -, -
1 2 3 4 5 15 N = 15 y^2		4 1 0 1 4 10 x ²	53.04 55.11 39.15 72.00 77.36 296.66 $= 10;$ $xy = 65.53$	Y -6.29 -4.22 -20.28 12.67 18.03 0.01 $Y = 296.6$	39.56 17.80 407.23 160.52 325.08 950.19	12.58 4.22 0 12.67 36.06 65.53

Coefficient of regression of Y on X = <u>65,53</u> $byx = \frac{\mathbf{X} \underline{X} \underline{Y}}{\mathbf{X} \mathbf{X}^2}$ = 6.55 10 The equation of line of regression of Y on X $= Y - \overline{Y} = byx (X - X)$ x = 59.33 = 6.55 (X = 3) Values of Y when X = 6, 7, 8, 9, 10, 11, 12 When X = 6Y = 59.33 = 6.55 (6 - 3) ° Y - 59.33 = 6.55 (3) • Y - 59.33 = 19.65 • Y = 59.33 + 19.65 • Y = 78.98----- (1988-89) When X = 7Y = 59.33 = 6.55 (7 - 3)Y = 59.33 = 6.55 (4)Y - 59.33 = 26.20 Y = 59.33 + 26.20• Y = 85.53----- (1989-90)

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When X = 8

Y = 59.33 = 6.55 (8 - 3)Y = 59.33 = 6.55 (5)• Y - 59.33 = 31.25 • Y=59.33 + 31.25 , **t** -----(1990-91) • Y = 90.58 When X = 9Y = 59.33 = 6.55 (9 - 3)Y = 59.33 = 6.55 (6) ° Y - 59.33 = 39.3 Y = 59.33 + 39.3----- (1991-92) Y = 98.63____ : When X = 10Y = 59.33 = 6.55 (10 - 3) $^{\circ}$ Y = 59.33 = 6.55 (7) 1 • Y = 59.33 = 45.85 ° Y = 59,33 + 45,85 • Y = 105.18 (1992-93)

When X = 11Y = 59.33 = 6.55 (11 = 3) Y = 59.33 = 6.55 (8) Y = 59.33 = 52.4ł Y = 59.33 + 52.4----- (1993-94) Y = 111.73When X = 12Y = 59.33 = 6.55 (12 - 3)Y = 59.33 = 6.55 (9) Y = 59.33 = 58.95Y = 59.33 + 58.95• Y = 118.28 (1994-95) Forecasted Figures Total transport loans will be sanctioned Year by the main branch (Rs. in lakhs) -. -. -. -. -. 1988-39 78.98 85.53 1989-90 90.58 1990-91 1991-92 98.63. 1992-93 105.18 1993-94 111.73 1994-95 118.28

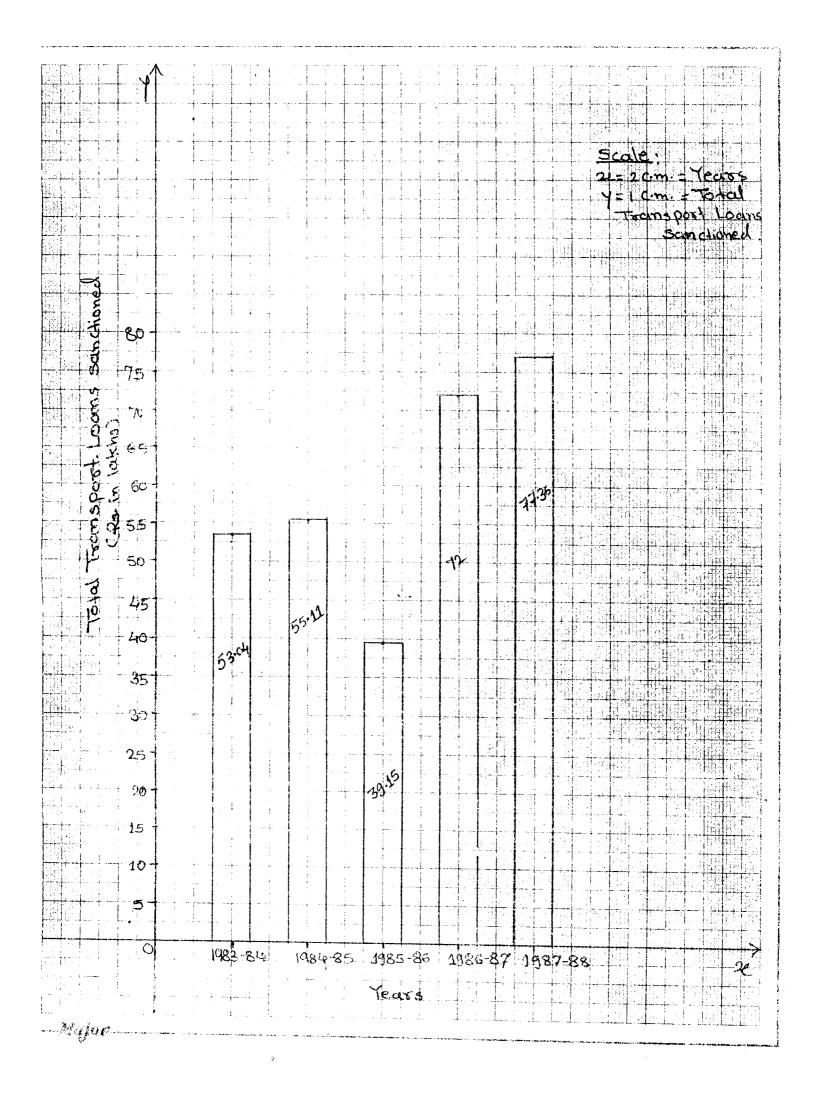


Table no. 8 presents the picture of allied agricul--tural loans advanced by the main branch for different purposes during 1983-84 to 1987-88.

The number of accounts of allied agricultural loans went on increasing during the study period. It was 125 during 1983-84; 252 during 1984-85; 180 during 1985-86 then raised upto 391 during 1986-87 and 452 during 1987-88. The total amount advanced to allied agricultural purposes was Rs. 8.06 lakhs during 1988-84; Rs. 8.11 lakhs during 1984-85; Rs. 10.85 lakhs during 1985-86, then sharply increased to Rs. 23.00 lakhs during 1986-87 and Rs. 28.52 lakhs during 1987-68.

The number of accounts of the borrowers for lift irrigation/machinery etc. was 75 during 1983-84; then sharply increased to 140 during 1984-85; again fallen down to 95 during 1985-86; then steeply increased to 251 during 1986-87 and 268 during 1987-88. In the beginning of the study period i.e. 1983-84 the total loans advanced for this type were Rs. 5.80 lakhs. The amount increased more than $2\frac{1}{2}$ times i.e. Rs. 13.00 lakhs during 1984-85. It came down to Rs. 8.08 lakhs during 1985-86, and again sharply incre--ased to Rs. 17.00 lakhs during 1986-87, and Rs. 19.15 lakhs by the end of 1987-88. The share of lift irrigation/machinery borrowers in the total agricultural loans is striking one. It stands at 65.75% during 1983-84; 71.78% during 1984-85; 74.47% during 1985-86; 73.91% during 1986-87 and 67.14% during 1987-88.

Though the bank is not allowed by Reserve Bank of India to advanced loans directly for actual crop develop--ment etc. the efforts of the bank in providing aids to agriculture are worth notable from the above table.

The number of accounts of the farmers borrowing for dairy farming purpose was 40 during 1983-84; it doubled actually i.e. became 82 during 1984-85; then 70 during 1985-86; and again sharply increased to 100 during 1986-87; 120 during 1987-88. The total loans disbursed by the main branch were Rs. 2.06 lakhs during 1983-84; Rs. 4.40 lakhs during 1984-85; Rs. 2.43 lakhs during 1985-86; Rs. 5.08 lakhs during 1986-87 and Rs. 7.57 lakhs during 1987-88. The share of the dairy farming loans in the total allied agricultural loans stood at 25.55% during 1983-84; 24.29% during 1984-85; 22.39% during 1985-86; 22.08% during 1986-87 and 26.54% during 1987-88. The * moves in between 22.03% and 26.54%. The advances for dairy farming are appreciable.

In the same manner the bank has made advances to poultry farming also. The number of accounts of poultry farming borrowers was 10 during 1983-84; it increased to 30 during 1984-85; then fallen down to 15 during 1985-86; again increased to 40 during 1986-87 and 64 during 1987-88.

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The total amount of poultry loans was Rs. 0.25 lakhs during 1983-84; then it increased to Rs. 0.71 lakhs during 1984-85; but fallen down to Rs. 0.34 lakhs during 1985-86; and again increased to Rs. 0.92 lakhs during 1986-87 and Rs. 1.80 lakhs during 1987-88. The share of poultry farm--ing loans in total agricultural loans was 2.48% during 1983-84; 3.92% during 1984-85; 3.13% during 1985-86; 4.00% during 1986-87 and 6.31% during 1987-88.

Though the bank has made beginning of advancing loans to poultry farming it is not upto the expectation.

If the business trends of the bank prevailing during the study period remain similar, the allied agricultural loans likely to be advanced by the main branch during the future period - 1988-89 to 1994-95 can be calcu--lated by Regression Method as follows -

Total Agricultural Loans sanctioned by the Main Branch. (Rs. in lakhs)

Year: (%)		ltural loans of the bank	sanctioned by the (Y)
1983-84		8.06	
1984-85		18.11	
1 985 -86		10.85	
1986 87		23.00	
1987-88		28.52	i
	Total	83.54	

 X	× ••• ••• •••	x ²	Y	ч. ч. ч. ч. У ч. ч. ч. ч.	y ²	xy
1	-2	4	8.06	-9.54	92.92	19.28
2	-1	1			0.16	0•41
3	0	0			46.92	0
4	1	1		5.30		5 .30
5	2	4	28 •52	10.82	117.07	21.64
15	0	10	88.54	0.04	285.16	46.63
Co	efficien	t of reg	$\frac{15}{5} =$ $\frac{46.63}{10}$	of Yon)	ĸ	<u>8.54</u> = 17.70 5
Т			ine of r		n of Yon	X.
	• Y	- 17.70	= 4.66	(X - 3))	
W	hen X =	6,7,8,9,	10,11,&	12 value	es of Y =	- 3
When	• • ¥	- 1 7. 70	= 4.66 = 4.66 = 13.	(3)	3)	

-----(1988-89)

Forecasting of total agricultural loans for 1988 to 1995 with the help of Regression Analysis.

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Y = 17.70 + 13.98

Y = 31.68

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When X = 7

Y = 17.70 = 4.66 (7 - 3) Y = 17.70 = 4.66 (4) Y = 17.70 = 18.64 Y = 17.70 + 18.64 Y = 36.34(1989-90)

When X = 8

Y - 17.70 = 4.66 (8 - 3) Y - 17.70 = 4.66 (5) Y - 17.70 = 23.30 Y = 17.70 + 23.30Y = 41.00 - (1990-91)

When X = 9

Y - 17.70 = 4.66 (9 - 3) Y - 17.70 = 4.66 (6) Y - 17.70 = 27.96 Y = 17.70 + 27.96 Y = 45.66 -----(1991-92)

When X = 10Y = 17.70 = 4.66 (10 - 3) Y = 17.70 = 4.66 (7) • Y = 17.70 = 32.62• • . Y # 17.70 + 32.62 _____ (1992**_**93) • Y = 50.32 4 When X = 11Y - 17.70 = 4.66 (11 - 3) Y = 17.70 = 4.66 (8) • • $^{\circ}$ Y - 17.70 = 37.28 **o** o ۰ _____ (1993-94) Y = 54.28-----When X = 12Y - 17.70 = 4.66 (12 - 3)Y = 17.70 = 4.66 (9) $^{\circ}$ Y - 17.70 = 41.94 0 11 $^{\circ}$ Y = 17.70 + 41.94 0 0 ----- (1994-95) $\cdot \cdot Y = 59.64$

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Forecasted Figures

	(Rs. in lakhs)
Year	Total agricultural loans will be sanctioned by main branch
1988-89	31.68
1989-90	36.34
1990-91	41.00
1991-92	45.66
1992-93	50.32
1993 - 94	54.28
1994 95	59.64

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1983-84	1984-85	1985-86	1986-8	11111 1111 1111	7-88		- De
		Years					
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	2.06	3.06	1983-84 1984-85 1985-86	3.06	1983-34 1984-35 1985-36 1986 87 193	5 ¹ 5 ¹	\$ ¹ \$ ¹

Table number 9 presents the detailed information of trade loans advanced by the main branch to different category of traders and businessmen in the traditional sector and so also the loans advanced to small traders and street sellers etc. in priority sector during the period 1983-84 to 1987-88.

During the study period of 5 years total number of accounts of different types of trade loans were 385 at the beginning i.e. in 1983-84; during 1984-85 it was 550; 1985-86 - 556; and sharply increased during 1986-87 - 1019 and in 1987-88 - 1169. The accounts increased nearly 3 times. The amount of loan advanced to all sort of traders and businessmen was Rs. 97 lakhs during 1983-84; Rs.137.11 lakhs during 1984-85; Rs. 133.60 lakhs during 1985-86; Rs. 202.00 lakhs during 1986-87 and Rs. 217.50 lakhs during 1987-88. Total trade loans also increased more than twice.

Out of the above stated trade loans different category of traders and businessmen have been advanced different amounts of loans. Total number of cloth merch--ants was 20 during 1983-84; 26 during 1984-85; 30 during 1985-86; 21 during 1986-87 and 32 during 1987-88. The total amount of loans advanced to cloth merchants was Rs. 15.40 lakhs during 1983-84, Rs. 18.17 lakhs during 1984-85, Rs. 20.10 lakhs during 1985-86, Rs. 16.30 lakhs during 1936-87 and Rs. 21.20 lakhs during 1987-88. The share of total cloth loan in total trade loans was 15.97% during 1983-84; 13.63% during 1984-85; 15.04% during 1985-86; 8.06% during 1986-87 and 9.74% during 1987-88. This perc--entage share reveals the fact that total loans advanced to cloth merchants in the traditional sector has been decreased notably during the last two years study period.

The number of accounts of the loans advanced to grocers was 30 during 1983-84, 35 during 1984-85, 40 during 1985-86, 26 during 1986-87 and 41 during 1987-88. Total amount of loans advanced to grocers was Rs. 8.60 lakhs during 1983-84, Rs. 10.20 lakhs during 1984-85; Rs. 12.50 lakhs during 1985-86; Rs. 8.80 lakhs during 1986-87 and Rs. 12.80 during 1987-38. The share of loans advanced to grocers in total trade loans stands at 8.86% during 1983-34, 7.43% during 1984-85, 9.35% during 1985-86, 4.35% during 1986-87 and 5.88% during 1987-88. The share of loans advanced to grocers has been reduced by nearly 25%.

The number of accounts of the loans advanced to medical/stationary merchants was 15 during 1983-84, 23 during 1984-85, 26 during 1985-86, 17 during 1986-87 and 29 during 1987-88. The total loans advanced to medical/ stationary, store merchants were Rs. 8.70 lakhs during

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1983-84 Rs. 14.30 lakhs during 1984-85, Rs. 15.60 lakhs during 1985-86. Rs. 9.00 lakhs during 1986-87 and Rs.17.90 lakhs during 1987-88. The share of the medical/stationary stores' loans in the total trade loans was 8.96% during 1983-84, 10.42% during 1984-85, 11.66% during 1985-86, 4.42% during 1986-37 and 8.22% during 1987-88. In case of medical and stationary advances also the bank has reduced the amount during the last two years of study period.

The number of accounts of all other merchants loans in the traditional sector was 85 during 1983-84, 91 during 1984-85, 94 during 1985-36, 56 during 1986-87 and 98 during 1987-83. The total amount of loans advanced to all other merchants in the traditional sector was Rs. 37.30 lakhs during 1983-84, Rs. 42.90 lakhs during 1984-85, Rs. 44.80 lakhs during 1985-86, Rs. 25.90 lakhs during 1986-87 and Rs. 50.10 lakhs during 1987-83. The share of all other traditional merchants' loans in the total trade loans stood at 38.45% during 1983-94, 31.21% during 1984-85, 33.53% during 1985-86, 12.92% during 1986-87 and 23.03% during 1987-88. In this case also the % share during the last two years has notably gone down.

On the whole the bank seems to have revised its policy of advancing trade loans by curtailing traditional sector loans and diverting the amount to the priority sector small trade borrowers.

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The number of accounts of small traders and street sellers in the priority sector were 235 during 1983-94, 375 during 1984-85, 366 during 1985-86, 819 during 1986-37 and 959 during 1987-38. The total amount of loans advanced to small traders and street sellers etc. in priority sector stood at Rs. 27 lakhs during 1983-34, Rs. 51.11 lakhs during 1984-85, Rs. 40.60 lakhs during 1985-86, Rs. 142 lakhs during 1986-87 and Rs. 115.50 lakhs during 1987-88. Their share in the total trade loans was 27.83% during 1983-4, 37,27% during 1984-85, 30.38% during 1985-86, 70.29% during 1986-87 and 53.10% during 1987-88. More particularly, the total amount of loans advanced to small traders in the priority sector and their % share in the total trade loans has been strikingly increased during 1986-37. On the whole, the bank has given prominance to small borrowers in the priority sector.

Especially, the bank has advanced more persons who are economically weaker in the priority sector. The total number of accounts of this type of borrowers was 150 during 1983-84, 250 during 1984-85, 240 during 1985-86, 614 during 1986-87 and 693 during 1987-88. Out of the total accounts of small traders and businessmen in priority sector more than 60% were economically weaker borrowers during the beginning year of the study period and more than 72% during the ending year of the study period. Total

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loans advanced to economically weaker borrowers amounted to Rs. 3.00 lakhs during 1983-84, Rs. 15.22 lakhs during 1984-85, Rs. 16.00 lakhs during 1985-86, Rs. 39.05 lakhs during 1986-87 and Rs. 89.00 lakhs during 1987-88. Their share in total trade loans stood at 8.24% during 1983-84, 11.10% during 1984-85, 11.97% during 1985-86, 19.33% during 1986.87 and 40.91% during 1987-88. It is striking point that during the last year of study period the loans advanced to economically weak section in the priority sector has sharply gone up and has occupied 40.91% in the total trade loans.

If the business trends of the bank prevailing during the study period remain similar, the trade loans likely to be advanced by the main branch during the future period -1988-89 to 1994-95 can be calculated as follows -

	(Rs. in lakhs)
Year (X)	Total Trade Lo of the bank.	cans sanctioned by the Main Branch
1983-84		97.00
1984-85		137.11
1985 86		133.60
1986 -37		202.00
1987-88		217.50
	Total	787.21

Total Trade Loans Sanctioned by the Main Branch.

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x	(x _ x) x	\mathbf{x}^2	Y	(Y_Y) Y	y ²	ху
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1	-2	4	97.00	-60-44	3652 .99	 120.88
2	-1	1	137.11	-20.33	409.25	20.33
3	0	0	133.60	-23.84	568.34	00.00
4	1	1	202.00	44.56	1985 .59	44 56
5	2	4	217.50	60.06	3607.20	120.12
15	0	10	· 787.21	0.01	10223.37	305.89
	byx 305. The equat	icient 89 ion of	= byx (regression (X _ X)	Y on X :- byx = <u>30.5</u> n of Y on X	
	13		· 44 = 30.5			
	Now the v	ralue c	of when X =	= 6,7,8,9	, 10, 11, 12.	
	* <u>NOTE</u> :		ove 6 to 1 from 1988		indicates t	he

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Forecasting of total trade loans sanctioned for 1988 to 1995 with the help of Regression Analysis.

When X = 6 Y = 157.44 = 30.58 (6 - 3) Y = 157.44 = 30.58 Y = 157.44 = 91.74 Y = 157.44 + 91.74 Y = 249.18 Y = 249.18 Y = 157.44 = 30.58 (7 - 3) Y = 157.44 = 30.58 (4)Y = 157.44 = 122.32

Y = 157.44 + 122.32 Y = 279.76 -----(1989-90) Y = 279.76 -----(1989-90) Y = 157.44 = 30.58 (8-3) Y = 157.44 = 30.58 (5) Y = 157.44 = 152.9 Y = 157.44 + 152.9 Y = 310.34 -----(1990-91)

- 114 -

When X = 9

$$Y = 157.44 = 30.58 (9 - 3)$$

$$Y = 157.44 = 30.58 (6)$$

$$Y = 157.44 = 183.48$$

$$Y = 157.44 + 183.48$$

$$Y = 340.92 ----(1991-92)$$

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٠,

When X = 10

	Y = 157.44 = 30.58 (10 - 3)
• •	Y = 157.44 = 30.58 (7)
• •	Y = 157.44 = 214.06
• •	Y = 157.44 + 214.06
• •	Y = 381.50 (1992-93)

When X = 11

Y - 157.44 = 30.58 (11 - 3) Y - 157.44 = 30.58 (8) Y - 157.44 = 244.64 Y = 157.44 + 244.64 Y = 157.44 + 244.64Y = 402.08 ----- (1993-94) When X = 12

Y = 157.44 = 30.58 (12 - 3). . Y = 157.44 = 30.58 (9)Y = 157.44 = 275.22Y = 157.44 + 275.22----- (1994-95) Y = 432.66Forecasted Figures (Rs. in lakhs) Years Total trade loans will be sanctioned by the main branch of the bank. 1988-89 249.18 279.76 1989-90 310.34 1990-91 1991-92 340.92 381.50 1992-93 1993-94 402.08 1994-95 432.66

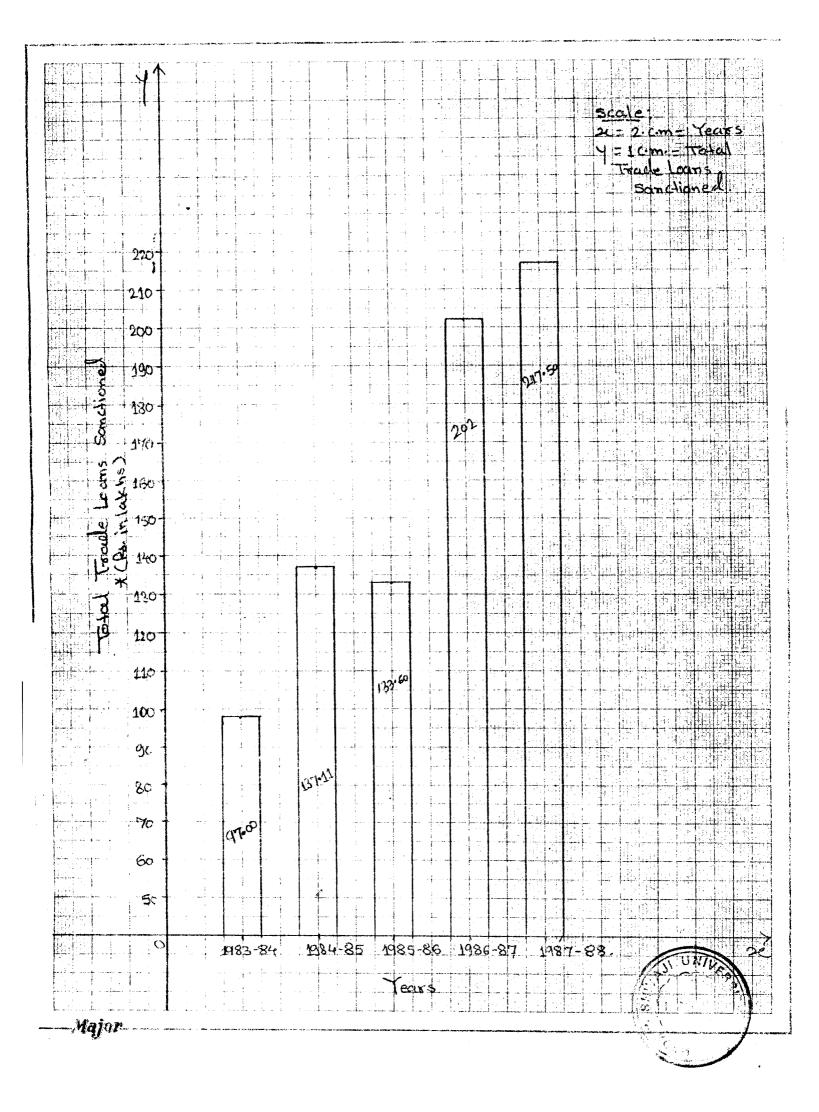


Table number 10 presents the % share of priority sector loans in Working Capital and total loans; so also share of transport loans in priority sector loans, Working Capital and total loans.

At the beginning of the study period during 1983 -84 main branch had advanced Rs. 143.35 lakhs to priority sector and it went up to Rs. 581.00 lakhs by the end of 1987-88 which is nearly 4 times. The share of priority sector loans in working capital stood at 22.08% and the same in total loans 25.60% during 1983-84 and went on increasing by the end of study period i.e. 1987-88 - 39.80% (in Working Capital) and 53.20% (in total loans). This shows that the bank's efforts are made in increasing the share of priority sector loan to meet the condition of directives of Reserve Bank of India.

Total loans advanced to transport operators during 1983-84 were Rs. 53.04 lakhs and are found increased to Rs. 77.36 lakhs by the end of 1987-88. The share of trans--port loans in priority sector loans, in total loans and in working capital stood at 37%, 9.47% and 8.17% respectively during the year 1983-84 and by the end of the study period it is found to be considerably decreased to 13.31%, 7.08% and 5.30% respectively.

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The percentage share of the priority sector loans advanced by the main branch remains same as in table no.10 in working capital and total loans during the study period.

Total loans advanced to agriculturists during 1983-84 were Rs. 8.06 lakhs and are found increased to Rs. 28.52 lakhs during 1987-93. The share of allied agricultural loans in priority sector loans, in total loans and in working capital stood at 5.62%, 1.43% and 1.24% respectively during the year 1983-84 and by the end of study period the percentage is near about constant i.e. 4.90%, 2.61% and 1.95% respectively, during 1987-88.

		•	• •	4 - 4 - 4 - 4 - 4 - 4 - 4			• • • • • • • • • • • • • •		
22°08	25 . 60	97 ° 00	14.94	17.32	27.00	4.16	4。62	27.83	
21。84	34.10	137.11	16.67	26.02	51.11	6°21	9 ° 70	37.27	
22.27	37 . 85	133.60	15°91	27°04	40 °60	4 ° 83	8°21	30 ° 38	
38 . 07	54 ° 72	202.00	18.88	27.15	142 。 00	13.27	19,08	70.29	
39° 80	53 ° 20	217.50	14.50	19.91	115.50	7.91	10.57	53 °1 0	
rom annual reports		i Å	the bank.		i i i i				
: loans :									
100 X	Priority_	Sector loans		, ,					
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	Priority_					y			
Total loans									
ns :								•••	
Working Capital	X Total	Total trade loans 1							
100 Total loans	X Total	l trade loans 1	,						
leans in priority	sector :								
<pre>* 100 **orking Capital</pre>	X Small	traders'	loans (b)	in total lo	loans =	100 Total loans	X Small trader	er's loans	
"	X Small	traders' 1	loans	-					
sector are showing	ig increase	•							
ہ decreased in 198	1985-86								
lecreased in 1985-86	1987-83.	- 83 .	•						

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1983-84	649.00	559°89	143 。 35
1984 - 85	822 。 37	526.76	179.67
1985-86	839°60	494°00	187 . 00
1986-87	1069 。 49	744.00	407.16
1987-88	1459.60	1092.00	581.00
	Ficures o	of the table are	taken fro
ANALYSIS		share of priority	V sector]
	ui (a	in Working Capital	
	न (व	in total loans	1
	2) % 3	share of total trade	rade loans
	a)	in Working Capital	tal = '
	(q	in total loans	11
	3) % S	share of small t	traders' 10
	a)	in Working Capital	n Lei
	c)	in total trade	loans =
		advanced	U D
		traders' los	are

This table shows the percentage share of traditional trade loans, advanced by the main branch, in Working Capital and total loans; So also % share of priority sector small trade loans in working capital, total loans and in total trade loans during the study period.

Main branch had advanced loans to traditional traders during 1983-84 Rs. 97.00 lakhs and by the end of study period it was increased to Rs. 217.50 lakhs. But its share in Working Capital as well as in total loans stands near about constant i.e. during 1983-84 the share in working capital stood at 14.94% and the same by the end of 1987-83 was 14.90%. Similarly, share in total loans was 17.32% during 1983-84 and 19.91% by the end of 1987-88. We do not find notable changes in the % share of traditional trade loans during the study period.

The loans advanced to priority sector and its % share in Working capital as well as in total loans is same which has been presented in table no. 10.

The share of priority sector small trade loans in Working capital, total loans and in total trade loans stands at 4.16%, 4.32%, and 27.33% respectively during 1983-84. And it has increased to 7.91%, 10.57% and 53.10% respectively by the end of 1987-83. The share of small trade loans has been nearly doubled. Only during 1987-83 the % share had strikingly increased that was 13.27% in working capital, 19.08% in total loans and 70.29% in total trade loans.

13. Table Showing The Picture of Break-up of Total Outstanding Loans Into Secured And Un-Secured Loans And Their Percentage To Total Loans During 1983-84 To 1987-88.

	• -• •• • •• •	Rs. in	lakhs		
Year	Total out- -standing Loans	Total out- standing secured Loans	• % to total outst- anding Loans	Total unse- -cured out- -standing Loans	% to total outst- anding Loans
1	2	3	4	5	6
1983-84	559.39	475.91	85	83,98	14.99
1984-85	526.76	474.08	89.99	52.68	10
1985-86	494.00	3 85 .32	78	108.68	22
1986 87	744.00	647.28	87	96.72	13
1987-83	1092.00	1028.20	94.15	163.30	15

SOURCE : Above figures are taken from the bank records and annual reports of the bank.

ANALYSIS :

1)	% share secured loans total loans	in	= <u>100 X</u> Total loans	Secured loans
2)	% share of unsecured loans in total loans	÷	100 X Total loans	Unsecured loans 1

- 3) Secured loans are showing decrease in 1984-85 and 1985-86.
- 4) Unsecured loans are showing decrease in 1984-85 and 1986-37.

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This table presents the break-up of total outsta--nding loans made into secured and unsecured categories and so also their percentage share in total loans.

Total outstanding loans advanced by the main branch during 1983-84 were Rs. 559.39 lakhs out of which Rs. 475.91 lakhs were secured one, and Rs. 83.98 lakhs were unsecured and their share in outstanding loans was 85% and 14.99% respectively. The total outstanding loans went up to Rs. 1092.00 lakhs during 1987-88 and out of this amount Rs. 1028.20 lakhs were secured loans and Rs. 163.30 lakhs were unsecured loans. The share in outstanding total loans of the secured loans stood at 94.15% and 15% of unsecured loans by the end of study period. The bank has observed safety principle and made its advances more on security basis. Hardly maximum 15% loans are advanced without security.

5.6. STUDY OF THE OVERDUES :

Overdues are the great stumble blocks in the bank's functioning, and at times leads to some extent bad debts also creating losses to the bank. Hence, bank has to make wisely planned advances and take precautious steps in minimising the overdues and avoiding losses.

				•	• • • •				
6°03	18 . 34 C	0°93	1.08	1.05	3, 16	17。24	0 °1 6	0.18	
6. 40	13°31 C	0°77	1.21	1。15	2.48	17。96	0°13	0.21	
4 。 50	8 . 78 C	0.53	16.0	0°95	1° 35	21。11	0.11	0.19	
8. 60	11.70 0	0•30	1.15	1°50	2,04	17 . 44	0.14	0.20	
10 . 10	10.37 0	0°69	0.92	2.60	2, 56	25.74	0.17	0• 23	
annual r	reports and bank	records	ds.						
t Overdues	1								
ן ב י וו מ	100 Total Overdues	×	Transport	rt Overdues 1	· · ·		•		
al = Wo	100 Working Capital	×	Transport 1	rt Overdues 1		- 			
1	. 100 Total loans	×	Transport 1	rt Overdues 1					
ally Weaker	er Class Transport		Ove rdues					•	
រ	100 Total Overdues	×	Economically	weaker	class Overdues				
al =	working Capital	x		Economically weaker o	class Overdues				
= sənpı	Transport Overdues	X 1es	Economically.	Weaker 1	class Overdues				
li	100 Total loans	×	Economically	Weaker 1	class Overdues				
			•						
								••	

1983-84	33.19	5. 10	7°5	9
1984-35	46.32	5. 63	9°2	9
1985-86	51 °20	6.08	9°7	4
1986-37	73,50	6, 68	10°2	ω
1987-83	97°39	6. 66	9 。 10	10
				i
SOURCE	SE : Figures	es are taken	ken from the	le B
ANALYSIS	(I : <u>SIS</u>	% Share	of Transport	ŗt
		a) in t	total overdues	les
	-	W ui (d	Working Capital	tal
		c) in t	total loans	
	2)	% Share	of Economical	Ical
		a) in t	total overdues	les
		v ni (d	Working Capital	[ta]
		c) in t	transport of	overð
		d) in t	total loans	

The main branch had to face the total overdues of Rs. 33.19 lakhs during 1983-84 and they were constantly increasing all along the 5 years period. By the end of 1987-88 overdues stood at Rs. 97.39 lakhs. Their share in working capital and in total loans was 5.10% and 7.5% respectively during 1983-84 and it has gone up to 6.66% and 9.10% respectively by the end of 1987-88.

Out of the total overdues Rs. 6.09 lakhs during 1983-94 were the overdues of the transport operators and this amount increased to Rs. 10.10 lakhs by the end of 1987-33. The share of transport overdues in total overdues, working capital and in total loans stood at 13.34%, 0.93% and 1.08% respectively during 1983-34. It is reduced to some extent by the end of the 1987-38 and stood at 10.37%, 0.69% and 0.92% respectively.

Out of the above transport overdues the overdues caused by the economically weaker class transport operators amounted to Rs. 1.05 lakhs during 1983-84 and it increased to Rs. 2.60 lakhs by the end of 1987-88. The share of economically weaker class overdues in total overdues, in transport overdues, in working capital and in total lcans stands at 3.16%, 17.24%, 0.16% and 0.18% respectively during 1983-84. By the end of the 1987-88 it was 2.66%, 25.74%, 0.17% and 0.23% respectively. The increase in the overdues more particularly in transport **ope**rators **is a** marking point but at the same time the bank can not stand away without advancing to transport business as it is a vital factor in the national economic development programme.

Under the above situations the researcher has tried to introduce "Bivariate Correlation "technique as a tool of minimising overdues through revised loans" policy of total advances and transport advances.

NOTE: The information which was not available from the annual reports and does not appear in the tables has been collected from the bank officer at personal interview.

Total 10 Ö ≫ O \square 800-900 900-1000 1000-2000 1 Í t 1 ł ł 1 SOURCE : Figures taken from bank officers at personal interview. • 1 1 1 I ŧ 1 ŧ ł 1 Ч I 1 I l 700-800 I ł -1 1 1 ŧ (Rs. in lakhs) 600-700 t ч ł I ł I 500-600 ł ł m N 400-500 2 2 1 i ł î ł Total Loans Rs. Total .. 90-100 70-80 80-90 30-40 40-50 50-60 60-70 Total Over--dues Rs.

Total Loans and Total Overdues

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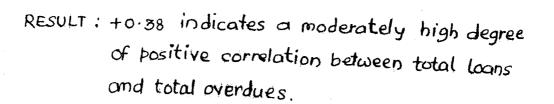
TOTAL LOANS & TOTAL OVERDUES

fdx dy Sfdzdy= · 4 0 33 3 0 0 Efely2= fdy2 54 0 9 4 60 ~ O Efdy= fdy - 18 1 2 Ö £1 m Q ÷ Efdzdy= Efdx3= =xpy3 N= 10 6£ 23 r. -6 0 0 4 ÷ --700 -800 800-900 900- 1000 1000- 1100 6-1050 ю 27 -9 Ĵ, 1 ł ۱ I R ł ļ Ø 950 d ۱ 1 ۱ ۱ 1 ۱ R œ Ø -850 J ŧ ۱ Ł ł ł * (RS. IN LAKHS) 0 750 0 ł ----I ł i ł ٥ ŧ * 0 0 dy 400-500 500-600 600-700 -650 ī ١ 1 1 ۱ ţ ١ ī -12 4 550 4, 9-24 10 ١ ţ -١ ١ ¥ R d 8 đ 450 10 Ŷ <u>1</u>8 ł ł 18 d ł I ۱ ۱ 3 53 (deedy gr tdx ñ ε å T 4 0 d ŝ -45 Ę 75 85 95 35 52 ŝŝ 90-100 NVO TOTAL 80-90 02-09 70-80 40-50 50 - 60 30-40 TOTAL OVERDUES -#

TOTAL LOANS & TOTAL OVERDUES

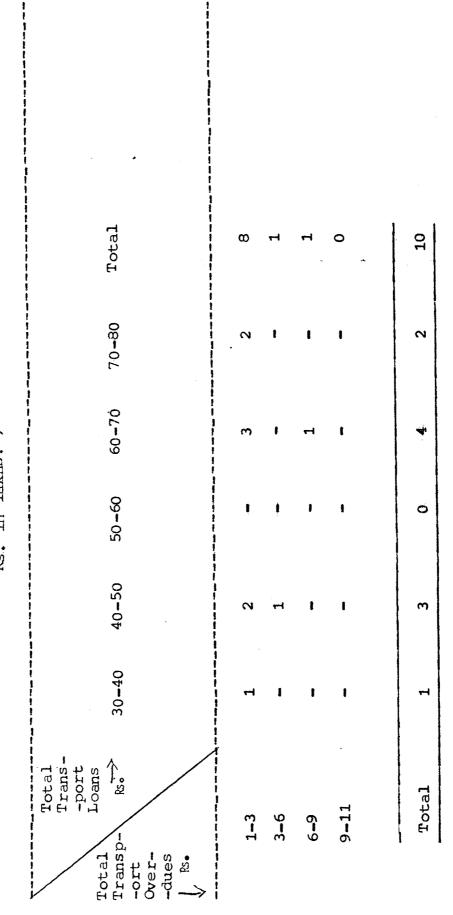
Now
$$x = Edxdy - (Efdx)x(Efdy)$$

 $\sqrt{2fdx^2 - (Efdx)^2} \sqrt{Efdy^2 - (Efdy)^2}$
 $\sqrt{2fdx^2 - (Efdx)^2} \sqrt{Efdy^2 - (Efdy)^2}$
 $\sqrt{2fdx^2 - (Efdx)^2} \sqrt{Efdy^2 - (Efdy)^2}$
 $\sqrt{2fdx^2 - (Efdx)^2} \sqrt{2fdy^2 - (Efdy)^2}$
 $= \frac{330 - (-7)x(-17)}{10}$
 $= \frac{330 - (-7)^2}{10} \sqrt{69 - (-17)^2}$
 $= \frac{330 - 119}{\sqrt{79x10 - (49)}} \sqrt{69x10 - (289)}$
 $= \frac{211}{\sqrt{790 - 49}} \sqrt{690 - 289} = \frac{211}{\sqrt{741}} \sqrt{401}$
 $= \frac{211}{27 \cdot 22 \times 2002} = \frac{211}{5444 \cdot 444}$
 $\therefore x = 4 0 \cdot 387$
 $\therefore x = 0.38$



Total Transport Loans And Total Transport Overdues.

Rs. in lakhs.)



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TOTAL TRANSPORT		ε	35	45	55	¢5	75				
TOTAL LOANS		dz	ă	T	0	*	4				
OVERDUES	ε	dy.	30-40	40-50	50-60	60 - 70	08-02	4	tdy	fdyz	fdzdy
بر ال	2	- 2	+	4	•	I	00 1 61	(N)	-10	20	0
0 1 10	Ŋ	1	3	1 L	1	13 	l	4	4	4	6
6-9	00	o	1	1	1	-	1	-	0	0	ʻ 0
							-	(•	•	
11-5	2	- 4		ĸ	10	+	- 6	N=10	2 f dy13	Efdy"=	stdædy=
		tdx	-2	K) I	0	4	4	zfdx=			
	<u> </u>	14z2	4	K)	0	4	00	Efdx ² = 19			
		fdrdv	4	, v	0	લ 1	80 1	EFdxdy = -1	<u> </u>		

TOTAL TRANSPORT LOANS & TOTAL TRANSPORT OVERDUES

NOW

$$r = \frac{zdxdy - (zfdx) \times (zfdy)}{N}$$

$$\sqrt{zfdx^{2} - (zfdx)^{2}} \sqrt{zfdy^{2} - (zfdy)^{2}}$$

$$= (-1) - (+3)(-13)$$

$$10$$

$$\sqrt{19 - (3)^{2}} \sqrt{25 - (-13)^{2}}$$

$$= \frac{-10 + 39}{\sqrt{190 - 9} \sqrt{250 - 169}} = \frac{29}{\sqrt{181} \sqrt{81}}$$

$$= \frac{29}{13 \cdot 45 \times 9} = \frac{29}{121 \cdot 05}$$

$$= 0.23$$

$$\therefore r = 0.23$$

RESULT: +0.23 indicates a moderately high degree of positive correlation between total transport Loans and total transport overdues. The percentage share of the overdues by the main branch in working capital and in total loans, remains same as in table No. 14 during the study period.

Out of the total overdues Rs. 2.10 lakhs overdues of the agriculturists and this amount increased to Rs.9.20 lakhs by the end of 1987-88. The share of allied agricultural overdues in total overdues, working capital and in total loans stood at 6.32%, 0.32% and 0.37% respectively 1983-84 By the end of 1987-88 they stood at 9.44%, 0.06% and 0.84% respectively.

Out of the above agricultural overdues the overdues caused by economically weaker class agriculturists amounted to Rs. 0.90 lakhs during 1983.64 and it went up to Rs. 4.30 lakhs during 1987-88. The share of economically weaker class in total overdues, in agricultural overdues, in working capital and in total loans stands at 2.71%, 42.85%, 0.13% and 0.16% respectively during 1983-84. By the end of 1987-88 it was increased and stood at 4.41%, 46.73%, 0.29% and 0.39% respectively. To uplift the economically weaker class in the rural India - Small farmers, marginal farmers, landless agricultural labour and artisans etc. is the main goal kept before the eyes in making planned economic develo--pment. Hence, the bank is required to participate by all

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means in the economic developmental activities and is bound to advance loans to allied agricultural activities and more particularly to weaker class in the rural areas. Only thing a bank can do is it should use novel statistical techniques and re-frame the advancing policy so as to minimise the overdues. With this view in mind the resear--cher has introduced the "Bivariate Correlation" technique. Agricultural loans and Agricultural Overdues (Rs. in lakhs)

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	Total			• 1 • 1 • 1 • 1 • 1 • 1	7	-1	0	Ν	10
	28-32				-	I	ì	1	-1
	24-28				1	1	1	t	0
	20-24				रण्ड	1	1	2	9
	16-20				1	1	I.	I	1
	12-16				I .	1	I	I	1
	8-12				4	I	1	t	4
	Agricu- -ltural 8-12 loans->	Agri- Rs. -cult- -ural	over- dues		2-4	4-6	6-8	8-10	Total

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TOTAL TOTAL AGRICULTURAL MARTEULTURAL MARTEULTURAL MARTEULTURAL MARTEULTURAL MARTEULTURAL MARTEULTURAL MARTEULTURAL MARTEUL MA			F	OTAL AGE	ACTUR	TOTAL AGRICHLINER LOANS & TOTAL AGREULTURAL OVERDUES * (Rs. IN LAKHS)	k TOTAL LAKHS)	AGRICULTL	KAL OVE	RPUES		
Lowes		3	40	3	†8	22	26	3 0				
L'TURAN	(1) (1)	49	4	+	0	. 	2	K)				
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		5. Hz 2	\$		0	ы	0	D	26dx2 = 20			
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ŗ	r = Edxdy = (Efdx)x(E)	E Foly)
	N	ang tang tang tang tang tang tang tang t
	$\sqrt{\xi f dx^2 - (\xi f dx)^2} \sqrt{\xi f dy}$	$-\frac{(zfdy)^2}{N}$
	$= 11 - \frac{(-3)(-13)}{16}$	
	$\sqrt{29 - \frac{(-3)^2}{10}} \sqrt{31 - \frac{(-3)^2}{10}}$	13) ² 0
	$= \frac{110 - 39}{\sqrt{290 - (9)}\sqrt{310 - (169)}}$	1)
	=	71
	J281 J149 71	16·76×11,87
	498.94	
	= 0.356	
•.	r == + 0.35	

RESULT: This indicates a moderately high degree of positive correlation between total Agricultural loans & total Agricultural overdues. This table presents total traditional trade over--dues and their share in total overdues, total trade overdues, in working capital and total loans.

During the year 1983-84 the total traditional trade overdues amounted to Rs. 7.30 lakhs and they went on increasing upto the end of 1985-86 and then decreased dur--ing the last two years of the study. By the end of 1987-88 total amount of traditional trade overdues was Rs. 2.44 lakhs. The share of traditional trade overdues in total overdues, in trade overdues, in working capital and in total loans during the year 1983-84 was 21.99%, 60.33%, 1.12% and 1.30% respe--ctively. By the end of 1987-83 the share came down to 14.78%, 53.33%, 0.98% and 1.31% respectively.

19	0.32 0.43 0.44 0.55 0.46							
18 ••• •• ••	0.27 0.27 0.26 0.38 0.38		Weaker es	Weaker es	Weaker	Weaker		overdues
1./ 	37, 50 35, 65 34, 92 35, 65 40, 89		Economically W Class overdues 1	Economically Weaker Class Overdues 1	Econcmically W Class Overdues 1	Economically W Class Overdues 1	November 1	t r ade
10 10	14.87 13.33 13.09 16.36 18.37		X Econor Class	X Econor Class	×	X Econor Class	- E	weaker class 86.
c1	5, 42 4, 96 4, 29 5, 57 5, 18		Total Over-	Trade Over-	Priority Sec- tor trade Overdues	Working Capital	trade/bus iness	
4 	1.80 2.30 2.10 4.10 5.05		overdues =	overdues = Trad	ator =	Capital =	sector small e in 1985-86.	sector economically ng decrease in 1985.
ا ب ا ا ا ا ا	0 85 1 22 1 54 1 1 3 54 1 1 3	.•	total over	trade over	iority Overdu	Working Ca	priority se 1g decrease	whowi
12	0°73 0°78 0°74 1°07 1°07		b) in t	c) in t	d) in pr Trade	e) in W	Total pr showing	Total pric have been
11 	39 . 66 37. 39 37. 50 45. 90 46. 16						3)	4
10	14.46 13.92 12.30 15.64 12.68					Overdues		Weaker Class
ر ب ب	4. 30 6. 45 6. 30 11. 50 12. 35 		ty Sector es	ty Sector es	ty Sector es	ty Sector 1	S S	Econcmically We Overdues 1
1 1 1 1	2.16 3.27 3.40 3.36 2.44 0f the b	Overdues :	X Priority Overdues 1	X Priority Overdues	X Priority Overdues	X Priority 1	HEAKLT Class	X Econ at
	1.36 2.09 1.99 2.34 1.83	Trade	rdues	rdues	0 Capital	loans	Economicaliy h	loans
۱ ۵	36.45 37.24 32.81 34.08 27.46 27.46	Sector Small	Total Ove	Total Ove	100 Working	100 Total	Sector Econo	100 Total 1
ן ה נ	5 12.10 2 17.25 7 16.30 2 25.05 10 26.75	Priority Sec	ove rdues =	ove rdues =	apital =	= SU	Priority Sec	es : loans
4	7.5 7.5 9.2 9.7 10.2 9.10	share of Pr	in total ove	trade ove	Working Capital	total loans	ъ С	Overđu total
س	5.10 5.63 6.08 6.87 6.66 6.66	1) %	a) in t	b (d	c) in [, d) in	2) % Share	Trade a) in
1	33-84 33.19 34-85 46.32 35-86 51.20 36-87 73.50 37-88 97.39 500RCE 5	" SI						

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This table reveals the picture of the overdues caused by the priority sector small traders and economically weaker class borrowers. The total overdues caused by the priority sector small traders and economically weaker class borrowers amounted to Rs. 4.80 lakhs during 1983-84 and it went on constantly increasing during the 5 years study period and stood at Rs. 12.35 lakhs by the end of 1987-88. The share of priority sector small trade loans' overdues in total overdues, in total trade overdues, in working capital and in total loans was 14.46%, 39.66%, 0.73% and 0.85% respe--ctively during 1983-84. By the end of 1987-88 it stood at 12.68%, 46.16%, 0.84% and 1.13% respectively. This shows that the % share of priority sector trade overdues has remained near about same during the study period.

But the total overdues caused by the economically weaker class borrowers is found increasing. During 1983-84 the total overdues of economically weaker class borrowers were Rs. 1.30 lakhs and the amount increased to Rs. 5.05 lakhs by the end of 1987-88. The share of this type of overdues in the total overdues, total trade overdues, in total priority sector trade overdues, Working Capital and total loans were 5.42%, 14.87%, 37.50%, 0.27% and 0.32% respectively during 1983-84 and the same stood at 5.18%, 18,87% 40.39%, 0.34% and 0.46% respectively by the end of 1987-88.

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Total Trade Loans and Total Trade Overdues
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10 210-240 	1	ŗ	I	ı
180-210	4	1	ı	2
150-180	ı	1	8	ł
120-150	0	2	ł	i
l s 90-120 120	2	ı	ł	I
Total Trade Trade loans Over- k	10-15	15-20	20-25	25-30

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Total

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TOTA		3	105	135	165	195	225	······			
TOTAL LOANS		dz		F	o	-	4				
OVERDUES	ε	dy	90- <i>1</i> 20	120-150	150 - 180	180 - 210	210-240	4	fdy	folyz	fdzdy
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10-15 15, 10	2 <u>r</u>	1	4)	1	1	7	- 2	4	6
2	5	. 0	1	1	1	1	1	0	0	0	Ø
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25-30	3	- 4		4	C			N=10	Edy= - 12	Σ dy ¹ = 28	= Kbxb3 10
		fdz	+ +	- +	0			zdx= - 3			K
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		Lindu	50	s	Ö	0	4	Edzdy =	2		

NOW	$G \rightarrow \mathcal{N} (-\mathcal{O} \mathcal{V})$
r =	$zdxdy = \frac{(zfdx)x(zfdy)}{N}$
	$\Sigma f dx^2 - (E f dx)^2 \sqrt{\Sigma f dy^2 - (E f dy)^2}$
• • • • •	$10 - \frac{(-3) \times (-12)}{10}$
Y	$\frac{19 - (-3)^2}{10} \sqrt{28 - (-12)^2} \frac{10}{10}$
=	$\frac{100 - 36}{\sqrt{190 - 9}\sqrt{280 - 144}} = \frac{64}{\sqrt{181}\sqrt{136}}$
	$\frac{64}{13.45 \times 11.66} = \frac{64}{156.82}$
	0.408

RESULT: +0.40 indicates a moderately high degree of positive correlation between total trade Loons and total trade overdues.

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5.7 STUDY OF THE ECONOMICALLY BENEFITED AND NON-BENEFITED BORROWERS :

The researcher has tried to go into the depth of the loans advanced by the main branch of the bank and over--dues caused on account of different reasons. Hence, she has tried to trace out economically benefited and nonbenefited borrowers during the study period and also know the causes of overdues caused by the non-benefited borrowers.

18. Table Showing The Picture of Break-up of Total Borrowers into Benefited and Non-Benefited Borrowers During 1983-84 to 1987-88.

Year	Total No. of Borr- -owers	No. of Econom- ically benefited borrowers	% to total Borro- -wers	No. of Economi- cally Non-Bene- fited Borro-	% to total Borr- Jowers
1	2	3	4	wers. 5	6
1983-84	615	569	92.52	46	7.47
1984-85	926	823	88.87	103	11.12
1985-86	856	761	88,90	95	11.09
1986-87	1577	1419	89.98	158	10.01
1987-88	1833	1650	90.01	183	9,98

<u>SCU CE</u>: The above figures are taken from the annual reports of the bank.

NOT: Total Borrowers = Trade + Transport + Agricul--tural Borrowers.

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In this table the total borrowers have been divided into two groups. First - economically benefited group of borrowers; second economically non-benefited group of borrowers during the period 1983-84 to 1987-88.

The total number of borrowers in the beginning of the study period i.e. 1983-84 was 615 and this figure went on increasing by the end of study period i.e. 1987-88 to 1833. During 5 years period the borrowers went on increa--sing and the figure is near about 3 times.

Out of the above borrowers actually benefited borrowers during 1983-84 was 569 and the number of bene--fited borrowers actually increased to 1650 by the end of 1987-88. Here also we trace gradual increase in the econo--mically benefited borrowers the figure is nearly 3 times by the end of study period. The share of economically benefited borrowers in the total borrowers stood at 92.52% during 1983-84 and it remained moving in between 88.87% and 92.52%. By the end of 1987-88 the share was 90.01%.

The number of e conomically non-benefited borrowers at the beginning i.e. during 1983-84 was 46 and it sharply increased 103 during 1984-85 then onwards it went on incre--asing to 183 by the end of the 1987-88. The figure actu--ally increased about 4 times and the share of economically non benefited borrowers in the total borrowers during 1983-84 was 7.47% and it increased to 11.12% during 1984-85;

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11.09% during 1985-86; then after slightly fallen down to 10.01% during 1986-87 and 9.98% during 1987-88.

		Economica	11y Benefi 1986-8		owers D	uring	
	nef i ts joyed	Total No. of Traders Benef- -ited	% to total Borro- -wers	Total No.of Tran- sport opera- -tors Bene- fited	% to total Borr- -owers	Total No.of Agricu- lturists Benef- -ited	% to total Borr- owers
	1	2	3	4	5	6	7
1)	Increased Profit/ Income	ð 47	23.5	30	15.00	103	51.5
2)	Improved Standard of living		17.0	22	11.00	70	35 .0
3)	Better Housing Facility	22	11.0	11	5.5	20	10.0
4)	Better Education to chil- -dren		19.5	18	9.0	80	40.0
5)	Social Service (Donation	13)	6.5	4	2.0	10	5.00
			vey of 25% are interv		l borrow	vers i.e.	200
1)	200 B	orrowers	= Total - Total	borrowers borrowers			
	25	。. % of 721	1577 - 856 = 180.25	= 721			

19. Table Showing The Picture of Break-up Economically Benefited Borrowers During But actually 200 borrowers are interviewed.

 Out of 200 borrowers 90% are benefited and 10% are non-benefited at the end of 1986-87.

This table is throwing light on the picture how the different borrowers have been economically benefited by their borrowed loans during the year 1986-87. For this study prupose the sample survey of roughly 25% of the total borrowers that means of 200 borrowers has been made by way of personal interview. During the year 1986-87 total borrowers were 721 and 25% of those borrowers actually comes to little more than 180. Hence, the researcher for convenience purpose has interviewed actually 200 borrowers.

Out of these ingerviewed 200 borrowers 90% are found economically benefited. Out of them 47 were trade borrowers, 30 were transport borrowers and 103 were agric--ultural borrowers whose income was increased on account of additional profits enjoyed by using the borrowed funds and their share share in the total borrowers stood at 23.5% and 51.5% respectively.

The borrowers whose standard of living was improved were 34 traders, 22 transport operators and 70 agriculturists and their in the total borrowers was 17%, 11% and 35% respe--ctively.

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The borrower who provided better education to their children were 39 traders, 18 transport operators and 80 agriculturists. Their share in the total borrowers was 19.5%, 9% and 40% respectively.

Lastly, the borrowers who contributed donations to the social institutions were 13 traders, 4 transport operators and 10 agriculturists. Their share in the total borrowers at 6.5%, 2% and 5% respectively. - 152 -

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20. The Showing The Picture of Break- up of Economically Non-Benefited Borrowers And Causes of Overdues During 1986-87.

		,	~•• •• • •• •						
Causes of overdues	Total No.of Non- Bene- fited Trade Borro- wers	% to total Borr- owers	Total No. of Bene- fited Tran- sport Oper- ators	% to total Borr- owers	Total No.of Non Bene- fited Agric- ultu- rists	% to total Borro- -wers			
1 	2		4	5 ••••	6 ,	7			
1) Willful Defaulter	1	0.5	2	1	3	1.5			
2) Unplanned investments and capital Deficiency	2	1	-		2	· 1			
3) Funds used for other- -wise purposes	1	0.5	1	0.5	5	2.5			
4) Accidents/ Mishaps	-	-	1	0.5	1	· <u>-</u>			
5) Natural Calamities		~~ • **• • • • • • •			2	1			
Out o	SOURCE: Sample Survey of 200 borrowers is taken. Out of 200, 10% borrowers are non benefited. i.e. 20 borrowers.								
ANALYSIS : (1)	More No of unpl	of Tra anned in	ders are vestment	e non-be s & cap	enefited pital def	because iciency.			
(2)	In case non-ben	of trans efited a	sport op re willf	erators ful Defa	s, more r aulters.	o, of			
(3)	Agricul of them	turists had use	are non- d funds	-benefit for oth	ed becau herwise p	se more purposes.			
· · · · · ·									

. 1 This table presents the picture of economically nonbenefited borrowers an attempt of finding out the causes of overdues caused during the survey year, 1986-87. The sampe survey of 200 borrowers was made by way of personal interview and the researcher found that out of these 200 borrowers 10% i.e. 20 borrowers were economically num-benefited. Amongst those who caused the overdues, 1 trader, 2 transport operators and 3 agriculturists were found to be willful defaulters and their share in the total borrowers was 0.5% 1% and 1.5% respectively.

Those who did not make planned investment of their borrowed funds and met capital losses (were traders and 2 agriculturists. Their share in the total borrowers was 1% and 1% respectively. No, transport operator was found in this category.

Those who used their borrowed funds for otherwise purposes without investing the funds for the proper purpose. Amongst such persons 1 was trader, 1 transport operator and 5 agriculturists. Their share in the total borrowers was 0.5%, 0.5% and 2.5% respectively.

Amongst the borrowers who hid to face accidents and mishaps in their business no traderwas found; 1 transport operator had met and also no agricuturist faced such situ--ation. The share in the total borowers facing accident transport operator was 0.5%.

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Amongst the non-benefited borrowers who faced natural calamities no traders and transport operators had to face natural calamities but 2 agriculturists were victims of such situation and their share was 1% in the total borrowers.

		nomically 1 funds fo 1986	Non-Bener or otherw:	Eitted Bo			
use	rowed funds d for other- se purposes.	Total No.of Non- Bene- fited Trad- -ers.	% to total Borr- -owers	Total No.of Non- bene- fited Trans- port opera- -tors	% to total Borr- -owers	Total No. of Non Bene- fited Agric- ultu- -rists	% to total borr- owers
4000-00-00-	1	2	3	4	5	6	7
1)	Marriage/ Ceremonial functions	1	0.5	1	0.5	5	2.5
2)	Domestic Consumption	-	-	-		3	1.5
3)	Children Education	-	-	-	•	-	
4)	Health & Medical expenditure	-	-	. -	-	2	1
5)	Bad Habits/ Drinks,Drugs etc.	-	-	3	1.5	5	2.5

21. Table Showing The Picture of Break-up of

SOURCE : Sample survey of 200 borrowers is taken; Out of them 10% are non benefited borrowers.

ANALYSIS:

The % of non-benefited agriculturists is comparatively more than traders and transport operators.

This table shows the nature of borrowers who did not used the funds for the purpose they had borrowed but they abused the borrowed funds irresponsibly for otherwise purposes during the sample survey year 1986-87. The researcher had interviewed totally 20 economically non-benefited borrowers and out of them 1 trader, 1 transport operator and 5 agricu--lturists had actually used their borrowed business funds for selebrating marriaged and other ceremonial functions. Their share in the total borrowers was 0.5%, 0.5% and 2.5% respe--ctively.

Some of the non-benefited borrowers who used their borrowed funds for domestic consumption and melting household difficulties. Amongst them 3 agriculturists are found of this nature and their share in the total borrowers is 1.5%.

Amongst the persons who spent the borrowed business funds for health and medical purposes; 2 agriculturists are found of this nature and their share in total borrowers is 1%.

Amongst the persons who abused their business funds and spent on drinks/drugs etc. 3 transport operators and 5 agriculturists were of this nature. Their share in the total borrowers was 1.5% and 2.5% respectively.

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	1* 2* 2* 7* 7* 2* 2* 2* 2* 2° 2° 2° 2* 2* 1* 2*	22.	Table Showing The Picture of	re of The Actions Tak	en To Recover Overdu	The Actions Taken To Recover Overdues And Recovery Made D
				(Rs. in lakhs	khs)	
Year	No. of defau-	Total outst-	Total outst- No. of defaul-		No. of suits	No. of Court Awards Received
	dues A/c.	of overdues	warning letters	notices served	of i	
-4	N	ω	sent 4	ഗ	6	7
1983-84	273	33,20 82	82	121	12	4
1984-85	473	46 。3 3	240	130	Q	11
1985 36	431	51.19	190	120	39	12
1986 -87	440	73.56	209	106	53	22
1987-88	529	96, 79	230	125	58	20
) • • • •	SOURCE: Table is prepared with the help of ba	Table is prepared wi	th the help of bank r	prepared with the help of bank records and personal interviews.		- • -₀ -₀ -₀ -₀ -₀ -₀ -₀ -₀ -₀ -₀ -₀
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 7.00	4。54	2,55	3.00	1 •05	Total amount of Overdues Recovered 8	Made During 1983-84 To
96	50	70	83	54	No of defaulters against whom No action' taken 9	1987-88

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In the above table the researcher has taken an account of the actions taken by the main branch during the period 1983-84 to 1987-88 to make recovery of overdues.

During the above said period there were 273 total defaulters during the year 1983-84 and the total outstanding amount of overdues was Rs. 33.20 lakhs. Hence bank had sent warning letters to 82 persons; served notices to 121 persons; filed suits in the court of law against 12 persons; and the court award was received in the case of 4 defaulters. The amount recovered during the said year was Rs. 1.05 lakhs but bank had taken no action against 54 defaulters.

During 1984-85 there were 473 total defaulters and the total amount of overdues was Rs. 46.33 lakhs. Hence bank had sent warning letters to 240 persons; served notices to 130 persons, filed suit in the court of law against 9 persons and the court award was received in the case of 11 defaulters. The amount recovered during the said year was Rs. 3 lakhs but bank had taken no action against 83 defau--lters.

During 1985-86 there were 431 Defaulters and the total amount of overdues was Rs. 51.19 lakhs. Hence bank had sent warning letters to 190 persons; served notices to 120 persons; filed suits against 39 persons and the court award was received in the case of 12 defaulters. The amount recovered during this year was Rs. 2.55 lakhs but bank had taken no action against 70 defaulters.

440 defaulters were during 1986-87 and the total amount of overdues was Rs. 73.56 lakhs. Hence bank had sent warning letters to 209 persons; served notices to 106 persons, filed suits against 53 persons and the court award was received in case of 22 defaulters. The amount recovered during this year was Rs. 4.54 lakhs but bank had taken no action against 50 defaulters.

By the end of 1987-83 there were 529 defaulters and total amount of overdues was Rs. 96.79 lakhs. There--fore, bank had sent warning letters to 230 persons; served notices to 125 persons; filed suits against 58 persons and court award was received in case of 20 defa--ulters. The amount recovered during this year was Rs.7 lakhs but bank had taken no action against 96 defaulters.

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23. Period And Cost Required Normally For Recovery of Overdues

			Cost	
		(in weeks)	(in Rs.)	
1)	Warning Letters	- 3	1.00	
2)	Notice	4	10.00	
3)	Suit filing and Hearing	52	1200.00	
4)	Arguments And Judgement	2	600.00	
5)	Recovery Award	2	200.00	
6)	Actual Overdues Recovery	3	60.00	
		66 Rs.	2071.00	
	و هذه و هد			
sa.	RCE : Above information	te collected in i	ne re na l	

SOULACE: Above information is collected in personal interview of the bank officers.

This table throws light on the fact that the period totally required for the recovery of the overdues passing from the 6 different stages. Systematically followed by the bank. Also roughly presents the cost of overdues recovery.

The bank sent warning letters first, then notice. Afterwards filing suit in the court and hearing then argument and judgement. After this recovery award and finally actual overdues recovery action is taken. For all these stages the bank requires 66 weeks normally and the total amount of expenses is normally Rs. 2071.