

# CHAPTER I

## INTRODUCTION

### 1.1 Background of the study

A bank is an institution that accepts deposits of various types, withdrawal by cheque and advances loans of different kinds. Bank is a link between collected deposits of its depositors with the lending of same to its credit customers. The major income of the bank is the difference of spread rate between deposit and lending by which bank makes profit and distributes dividend to its stakeholders. It is an institution whose debts are widely accepted in settlement of other people's debts to each other. A well-developed banking system is a necessary pre-condition for economic development in a modern economy. Besides providing financial resources for the growth of industrialization, banks can also influence the direction in which these resources are to be utilized. The underdeveloped country like Nepal, the banking facilities are limited in urban areas and the banking activities are limited mostly to trade and commerce and paying little attention to industry and agriculture. Structural as well functional reforms in the banking system are needed to perform creative role in under developing countries.

In modern economy, bank plays the vital role for development in every sector from our day to day life to big industrial sector. It's like the relationship between the heart and the blood. Banks are to be considered not merely as dealers in money but also the leaders in development. They are not only the collector of the country's wealth but also the resources supplier for economic development. In the 18<sup>th</sup> and 19<sup>th</sup> centuries, the growth of commercial bank facilitated the occurrence of industrial revolution in Europe. Similarly, the economic process development in the present day largely depends upon the growth of sound banking system in these economies.

Integrated and speedy development of the country is possible only when competitive banking services reaches the nooks and corners of the country. A commercial bank is an institute that offers a broad range of deposit accounts, including checking, savings, and

time deposits, and extends loans to individuals and businesses. Thus it is engaged in capital formation. Commercial banks collect money from those who have surplus of it, in the form of deposits, and then lend the same to them who need it in the form of loans and advances. Thus it acts as agent for the flow of capital.

In fact the banks do not lend their own money. The banks collect the fund from the deposit holders and lend the same fund, who needs it. Collected fund in the form of various deposits such as fixed, current, savings and call deposits are spread to various individuals and business entities in the form of advances such as term loan, overdraft loan, working capital loan, bridge gap loan etc. So when this lending of banks is in risk then the funds from deposit holders is in risk, savings from the hard earned money of large number of people is in risk. So the riskiness of the banks assets affects the whole economy of the country. This was also evident from the crisis on Nepal Bangladesh Bank Limited on 2006. The crisis arose when the news came out on Thursday, November 9, 2006 that the bank has the deteriorating financial health. The report has also leaked out that there was manipulation in the minute book of the Board of Directors (BOD) meetings. Similarly, the huge sum of money has gone to be bad loan taken by some of the members of BOD of the NB Bank.

After the leakage of the information & news among the general public, dramatic breakdown came among the NB Bank's depositors confidence. There was a withdrawal of over Rs.1.9 billion in three days. Observing the crisis, the NRB took over the management of NB bank. (Vaidya, 2007). The risk of bank assets mainly loan and advances make huge effect on bank's goodwill and in some time lead to the collapse of the bank. The recent crisis on banking industry has taken place. Gurkha Development Bank Ltd., Capital Merchant Banking & Finance Ltd, and Nepal Share Market and Financial institutions Ltd., had recently suffered with the poor management of its loans and advances. After the news published in various news papers and televisions, Gurkha Development Bank Ltd, was shut down and Capital Merchant Bank & Financial Institution Ltd. had to stop its daily transactions. The key person of Nepal Share Market & Financial Institution Ltd. were undergrounded due to the crisis arose in the bank.

Managing a commercial bank is basically the risk management of its assets, mainly its Loans & Advances and Investment. Once the lending portfolio is turned into bad loans then bank has to suffer not only with deposit management but also in terms of provisioning which result into the profitability of the bank. Profitability of the bank and even its survival depends upon the risk management. Of course banks are there to lend, however banks have to think hundred times before taking lending decision as every lending has inherent risk associated with it within the quick time of lending decision. They have to ensure that borrowers are and will be able to serve their debt obligations in time. Other wise let the interest, principal amount itself will not return back.

Banks have to manage their assets in various ways. There is asset selection procedure; this is how the banks select its assets. How bank calculate risk associated in any lending decision and should also focus on its mitigation. Banks have to lend and also make sure that it returns back. To mitigate the risk they also must diversify the risk among various borrowers and among various sectors. Also there must be system to continuously monitor and evaluate the performance of existing assets. If is any sign of sickness is shown remedial action should be taken on time. This will prevent the loan default and also will enable bank to make necessary corrections and to take immediate actions in the course likely situation arising in loan default.

The banks also must have loss absorbing capacity. There must to enough capital to absorb the loss before it pass on to the deposit holders.

This study intends to dissert the asset management practice of two major joint venture banks of Nepal, Everest Bank Limited and Nepal SBI Bank Limited. The two banks are chosen because of similarity between both of them. They both started operation in similar time, both are the in joint ventures with two biggest state owned banks of India and management of both banks are being handled by the two largest state owned banks of India viz State Bank of India and Punjab National Bank. Both the banks have made growth on every aspect of banking indicators and are known to be the best banks of Nepal.

## **1.2 Statement of the Problem**

Managing a bank means a great challenge in present competitive financial markets. A bank is an institution that accepts money as deposit and lends the same to those who need it. Therefore on the one hand the banks play an important role for the safeguarding of depositors money and simultaneously look into the risk factors of the amount that it lend. The banks have great challenge in collecting deposit in present market where there is fluctuation on saving deposit rates from banks to banks. Similarly, the bank has to make so quick lending decision to lend the money that is collected as deposit. Hence, the banks should have the strong lending unit which can analyze the credit application so quickly to lend the money within short period. In other way they have to become efficient in the market also in the other hand they also have to maintain their asset quality for long run survival. The growing competition is forcing banks to take the hasty decision forging the credit appraisal norms. This may put the banks in great danger up to the verge of collapse.

Risk management of a bank which includes various risk such as credit risk, market risk, operational risk, repayment risk, security risk etc has to be analyze while making any lending decision. It is a basic management of bank. Every lending decision has inherent risk in it. But banks are also business entities and are there to earn profit. Lending is a risk and banks can't survive without lending because interest income that comes from the lending is major source of income for the banks. The interest income must cover the interest to be paid to its deposit holders and other operational costs like staff expense, utility bills, stationary expenses, rent etc. So the major funda to survive in the business is by managing the risk taken. This may be done from various ways viz careful asset selection, periodic review of performance of assets, maturity management of assets, diversification etc.

The single criterion for measuring the bank's performance is the profitability measurement which further measures the soundness and efficiency of bank. The profitability is the result of lending decision of banks and its is not an easy task to perform. The soundness of banks is further the result of quality of its assets. How quality

is there in assets of any banks determines the profitability and hence measures the soundness as well. The less quality of the risk assets of banks shall attract the provision on it and hence the profitability of banks declines. When these assets turn into Non-Performing Assets (NPAs) then let the return even principals of deposit holders and owners come to risk.

Everest Bank Limited and Nepal SBI Bank Limited are the pioneer joint venture banks in Nepal. Both banks have started their operation in Nepal in similar time and follows similar management practice. The banks are joint venture partners of two large state owed banks in India, Punjab National Bank and State Bank of India.

The followings are the major research questions that have been identified for the purpose of this study:

- What is the procedure of asset selection in sample banks?
- What is the process of periodic review of performance of assets?
- What is the position of Non Performing Assets (NPA) in sample banks?
- Which bank is efficient in using their resources like deposit and manpower?
- What is the Capital Adequacy Ratio maintained in sample banks?
- Which bank is better in terms of loss absorbing capacity and liquidity?
- What is the return on funds mobilized?
- How the banks are diversifying their risks?

### **1.3 Objectives of the Study**

The major objective of commercial banks is to earn return on its investments. The banks hold the risky assets in the form of loan and advances. It is the basic principal that the created assets should perform well and make return on it. But it is a critical issue that the assets created will always not perform well and make positive return. The return on investment and loan and advances can only be achieved if the assets are managed effectively and efficiently. The main objective of this study is to examine the efficiency of the sample banks on various asset management practices. The specific objectives are:

1. To analyze structure of assets held by sample banks
2. To examine the assets selection procedure of two banks.
3. To analyze the NPA composition of the assets.
4. To examine the capital adequacy position of two banks.
5. To examine liquidity, earning power, efficiency, risk diversification of two banks.

#### **1.4 Limitations of the study**

Managing a commercial bank in today competitive banking environment is challenge. Decisions should be taken by a manager on various areas to achieve success. Various factors also affect the efficient operation. Considering all the factors is not possible due to various reasons. Among many factors and area of commercial bank management, asset management is one of the most important aspects; hence the study focuses on one of the key area: “asset management”. The asset management is an effective tool to maintain confidence of depositors and society at large, to earn good return over investment and long term survival of the organization. This also ensures the goodwill of company. This study is only a partial fulfillment of MBS programs. So, the study will be limited by following factors:

- The time is the major limitation of the study. As this is the study for the partial fulfillment for the degree of Masters of Business Studies there is very limited time for this study.
- Only the sample of two commercial banks is taken.
- Availability of the data is also a major problem. The study is primarily based on the secondary sources of data published in annual reports of the companies. However, primary data in form of questionnaire and informal sources also is collected whenever needed.
- Secondary data is analyzed to interpret result so the result depends on the accuracy and reliability of the secondary data and questionnaire survey is done for primary data so result is based on respondents view.
- The study period only covers five years fiscal years beginning from 2006/07 to 2010/11.

## **1.5 Focus/Significance of the study**

The proposed study is focused on the Risk Assets selection of two banks. The study aims at study of assets management policies of two banks, Nepal SBI Bank Ltd., and Everest Bank Ltd. The study will focus on diversification of the assets, assets selection procedure, composition of assets, periodic review of assets, risk of assets, capital adequacy, composition of Non Performing Assets, and risk mitigation practices.

This study can be effective guideline for the policy makers and the persons in the implementation body. On the other hand this study will help the management of commercial banks and the regulatory body NRB. The study will find strength, weakness, cause of weakness and suggest ways to mitigate it.

## **1.6 Organization of the Study**

The proposed study will be organized into five chapters, each chapter deals with the specific aspects of the study which will be as follows;

The first chapter deals with the general background of two banks, the statement of problems, objectives of the study, benefits of study, limitations of the study, organization of the study and introduction of the organizations under consideration.

Chapter two deals with framework of study and reviews of major empirical work in the area. This study is based on the framework provided by the chapter.

Chapter three is research methodology. The chapter carries out research design, sources and types of data, data gathering instrument, data gathering procedure and tools for analysis.

Chapter four is the main part of this study. It deals with the empirical analysis of the study. Analysis is the systematic and careful examination of available facts so that certain conclusion can be drawn and inferences can be made.

Chapter five is summary, conclusion and recommendation. The chapter is summarizes the whole spectrum of the study. It also offers recommendation for the improvement in future. Bibliography, appendices and a vitae sheet of the researcher are also enclosed at the end of the research report.

## **1.7 Introduction of Organizations under Study**

### **Everest Bank Limited**

Everest Bank Limited (EBL) started its operation in 1994 with a view and objectives of extending professionalized and efficient banking services to various segments of the society. The bank is providing customer friendly services through a network of 43 branches across the nation. Punjab National Bank (PNB), joint venture partner of the bank (holding 20% equity in the bank) is the largest nationalized bank in India having 113 years of banking history. PNB is a technology driven bank serving over 35 million customers through a network of over 4,500 branches spread all over the country with a total business of around INR 2178.74 billion. Management of the EBL is being handled by PNB under the Management Service Contract. The bank has been conferred with “Bank of the Year 2006, Nepal” by the banker, a publication of financial times, London. The bank was bestowed with the “NICCI Excellence award” by Nepal India chamber of commerce for its spectacular performance under finance sector. (<http://www.everestbankltd.com/briefProfile.php>) The bank has employed 449 numbers of staff members, has 11 ATMs and 26 branches. The shareholding pattern of the bank is 12% promoters, 68% public and 20% Punjab National Bank. The bank has total business portfolio of Rs 727,897 lacs as on Ashad end 2068. (Annual Report 2010/11, EBL)

### **Nepal SBI Bank Limited**

Nepal SBI Bank Ltd. (NSBL) is the first Indo-Nepal joint venture in the financial sector sponsored by three institutional promoters, namely State Bank of India, Employees Provident Fund and Agricultural Development Bank of Nepal. The management team and the Managing Director who is also the CEO of the Bank are deputed by SBI. SBI also provides management support as per the Technical Services Agreement. State Bank of India (SBI), joint venture partner of the bank (holding 50% equity in the bank) is the

largest nationalized bank in India having 200 years of banking history. SBI is a technology driven bank serving over 150 million customers through a network of over 10,000 branches spread all over the country 55.05% of the total share capital of the Bank is held by the State Bank of India, 15.01% is held by the institutions and 29.94% is held by the general public. The bank has employed 505 numbers of staff members, has 50 branches. The bank has total business portfolio of Rs 641,340 lacs as on Ashad end 2068. (Annual Report 2010/11, NSBL)

## **CHAPTER II**

### **REVIEW OF LITERATURE**

Risk assets management is the basic risk of bank which has to be managed properly. In the event of inadequate management of risk of any bank will result into the collapse of bank. Every lending decision is associated with every lending decision has inherent risk in it. But banks are also business entities and are there to earn profit. Here, the paradox lies, lending is a risk and banks can't survive without lending because interest income that comes from the lending is major source of income for the banks. The interest income must cover the interest to be paid to its deposit holders and other operational costs like staff expense, utility bills, stationary expenses, rent etc. So the major funda to survive in the business is by managing the risk taken. This may be done from various ways viz careful asset selection, periodic review of performance of assets, maturity management of assets, diversification etc.

Profitability of the banks and even its survival depends on how efficiently banks manage their assets. However, it's not an easy job and there is no single formula to achieve it. If the assets of a bank are of good quality then health of the bank is sound and will earn good return for its deposit holders and owners. But when these assets turn into Non-Performing Assets (NPAs) then let the return even principals of deposit holders and owners come to risk.

The quality and performance of assets held by banks are measured by various parameters they are like NPA percentage, average spread, average yield, Credit Deposit (CD) ratio, Capital Adequacy, percentage of Interest Income to Total Income, Percentage of Other income to Total Income, Operating Cost to Net Interest Income etc.

#### **2.1 Meaning of Commercial Bank**

A commercial bank is institution that accepts demand deposits, makes commercial and industrial loans, and performs other banking services for the public. The term commercial bank is synonymous with full service bank because many commercial banks supply trust

services, foreign exchange, trade financing, and international banking. Bank that makes loans to businesses, consumers, and non-business institutions. Early commercial banks were limited to accepting deposits of money or valuables for safekeeping and verifying coinage or exchanging one jurisdiction's coins for another's. By the 17th century most of the essentials of modern banking, including foreign exchange, the payment of interest, and the granting of loans, were in place. It became common for individuals and firms to exchange funds through bankers with a written draft, the precursor to the modern check. Because a commercial bank is required to hold only a fraction of its deposits as cash reserves, it can use the money deposited by its customers to extend loans. Commercial banks also offer a range of other services, including savings accounts, safe-deposit boxes, trust services and foreign exchange services.

A commercial bank is a type of financial intermediary and a type of bank. Commercial banking is also known as business banking. It is a bank that provides checking accounts, savings accounts, and money market accounts and that accepts time deposits. After the Great Depression, the U.S. Congress required that banks engage only in banking activities, whereas investment banks were limited to capital market activities. As the two no longer have to be under separate ownership under U.S. law, some use the term "commercial bank" to refer to a bank or a division of a bank primarily dealing with deposits and loans from corporations or large businesses. In some other jurisdictions, the strict separation of investment and commercial banking never applied. Commercial banking may also be seen as distinct from retail banking, which involves the provision of financial services direct to consumers. However, many banks offer both commercial and retail banking services. This is what people normally call a "bank". The term "commercial" was used to distinguish it from an investment bank. Since the two types of banks no longer have to be separate companies, some have used the term "commercial bank" to refer to banks that focus mainly on companies. In some English-speaking countries outside North America, the term "trading bank" was and is used to denote a commercial bank. During the great depression and after the stock market crash of 1929, the U.S. Congress passed the Glass-Steagall Act 1933-35 (Khambata, 1996: 320) requiring that commercial banks engage only in banking activities (accepting deposits

and making loans, as well as other fee based services), whereas investment banks were limited to capital markets activities. This separation is no longer mandatory.

It raises funds by collecting deposits from businesses and consumers via checkable deposits, savings deposits, and time (or term) deposits. It makes loans to businesses and consumers. It also buys corporate bonds and government bonds. Its primary liabilities are deposits and primary assets are loans and bonds. ("Commercial bank," 2009)

Commercial banks engaged in the following activities:

- ) processing of payments by way of telegraphic transfer, internet banking, or other means
- ) issuing bank drafts and bank cheques
- ) accepting money on term deposit
- ) lending money by overdraft, installment loan, or other means
- ) providing documentary and standby letter of credit, guarantees, performance bonds, securities underwriting commitments and other forms of off balance sheet exposures
- ) safekeeping of documents and other items in safe deposit boxes
- ) currency exchange
- ) sale, distribution or brokerage, with or without advice, of insurance, unit trusts and similar financial products as a "financial supermarket". ("Bank," 2009)

## **2.2 Development**

Banks have influenced economies and politics for centuries. Historically, the primary purpose of a bank was to provide loans to trading companies. Banks provided funds to allow businesses to purchase inventory, and collected those funds back with interest when the goods were sold. For centuries, the banking industry dealt only with businesses, not consumers. Banking services have expanded to include services directed at individuals, and risk in these much smaller transactions are pooled.

The name bank derives from the Italian word banco "desk/bench", used during the Renaissance by Florentine bankers, who used to make their transactions above a desk covered by a green tablecloth. However, traces of banking activity can be found even in ancient times.

In fact, the word traces its origins back to the Ancient Roman Empire, where moneylenders would set up their stalls in the middle of enclosed courtyards called macella on a long bench called a bancu, from which the words banco and bank are derived. As a moneychanger, the merchant at the bancu did not so much invest money as merely convert the foreign currency into the only legal tender in Rome- that of the Imperial Mint. ("Commercial bank," 2009)

Nepal's banking history had begun with the establishment of Nepal Bank Ltd. in 1937. Nepal Bank Ltd. was the first commercial bank with 51% government equity and 49% owned by general public. It was established under the special banking Act 1936 having elementary functions of a commercial bank. Because of the non-existence of a central bank in the country, the commercial bank had to act as its own central bank, and keep enough resources in hand for meeting emergencies.

Later on, the central bank was established, with an objective of supervising, protecting and directing the function of commercial banking activities. Rastriya banijya Bank came into existence in 1966, fully government ownership with the authorized capital of Rs. 10 million and paid up capital of Rs. 2.5million.

Similarly, with the establishment of a cooperative bank which was later on converted into Agricultural Development Bank in 1967 added more bricks in the construction of the banking sector of Nepal. Agricultural Development Bank was established as the main financing institution for small rural agro-industries and cooperative sectors. It has started depository function of a commercial bank from 1986 with similar deposit rates.

In 1980, the government introduced 'Financial Sector Reforms'. Nepal allowed the entry of foreign bank as joint venture with up to a maximum of 50% equity participation. Now there are altogether 32 commercial banks, including up gradation of Sanima Bikash Bank

Ltd. into A class commercial bank, operating in Nepal to contribute in trade and commercial sector of the nation. In addition to this, some of the development bank and finance companies are also working to get license from Nepal Rastra Bank to act as a commercial bank. When government decided to establish banks with joint venture, two benefits were expected. First, that competition would force the domestic banks, Nepal Bank Ltd., and Rastriya Banijya Bank to improve their services and efficiency. Second, that introduction of new banking procedures, methods and technology would occur. The first joint venture bank was Nepal Arab Bank Ltd (NABIL). It was established in 1984.

After restoration of peace in Nepal the pace of establishing new banks has increased. Existing banks are also expanding their branch network. So now there is fierce competition in the commercial banking sector of Nepal. To overcome this competition the banks in Nepal are focusing more on retail and personal financing like: house loans, personal overdrafts, vehicles loans to extend their market. To increase the lending figures haphazard lending without accessing the risk associated properly is also occurring. This may keep the deposit holders in great risk.

## **2.3 Products of a Bank**

### **2.3.1 Deposit**

A deposit account is an account at a banking institution that allows money to be deposited and withdrawn by the account holder, with the transactions and resulting balance being recorded on the bank's books. Some banks charge a fee for this service, while others may pay the customer interest on the funds deposited.

Although restrictions placed on access depend upon the terms and conditions of the account and the provider, the account holder retains rights to have their funds repaid on demand. The customer may or may not be able to pay the funds in the account by [cheque](#), internet banking or other channels depending on those provided by the bank and offered or activated in respect of the account.

The banking terms "deposit" and "withdrawal" tend to obscure the economic substance and legal essence of transactions in a deposit account. From a legal and financial

accounting standpoint, the term deposit is used by the banking industry in financial statements to describe the liability owed by the bank to its depositor, and not the funds (whether cash or checks) themselves, which are shown as an asset of the bank. For example, a depositor opening a checking account at a bank in Nepal with NPR 100 in currency surrenders legal title to the NPR 100 in cash, which becomes an asset of the bank. On the bank's books, the bank debits its "currency and coin on hand" account for the NPR 100 in cash, and credits a liability account (called a "demand deposit" account, "checking" account, etc.) for an equal amount. In the financial statements of the bank, on the balance sheet, the NPR 100 in currency would be shown as an asset of the bank on the left side of the balance sheet, and the deposit account would be shown as a liability owed by the bank to its customer, on the right side of the balance sheet. The bank's financial statement reflects the economic substance of the transaction -- which is the bank has actually borrowed NPR 100 from its depositor and has contractually obliged itself to repay the customer according to the terms of the demand deposit account agreement. To offset this deposit liability, the bank now owns the actual, physical funds deposited, and shows those funds as an asset of the bank.

Typically, an account provider will not hold the entire sum in reserve, but will loan the money at interest to other clients. It is this process which allows providers to pay out interest on deposits.

By transferring the ownership of deposits from one party to another, they can replace physical cash as a method of payment. In fact, deposits account for most of the "money supply" in use today. For example, if a bank in the Nepal makes a loan to a customer by "depositing" the loan proceeds in the customer's checking account, the bank typically records this event by debiting an asset account on the bank's books (called loans receivable or some similar name) and credits the deposit liability or checking account of the customer on the bank's books. From an economic standpoint, the bank has essentially created "economic money". The customer's checking account balance has no "rupee bills" in it, as a demand deposit account is simply a liability owed by the bank to its customer. In this way, commercial banks are allowed to increase the money supply. ("Deposit account, " 2009)

## **Types of deposit account**

- J Demand account
- J Savings deposit
- J Time deposit

### **Demand Accounts**

A Demand account is a deposit account held at a bank or other financial institution, for the purpose of securely and quickly providing frequent access to funds on demand, through a variety of different channels. Because money is available on demand these accounts are also referred to as demand accounts or demand deposit accounts.

These accounts are meant neither for the purpose of earning interest nor for the purpose of savings, but for convenience of the business or personal client; hence they tend not to bear interest. Instead, a customer can deposit or withdraw any amount of money any number of times. ("Transactional Account," 2009) In Nepal, such types of accounts are popular as Current Accounts. For a bank such types of accounts are much preferable as they provide cost free funding for them.

### **Savings Accounts**

Saving accounts pay interest to the depositors, but have no specific maturity date on which the funds need to be withdrawn or reinvested. Any amount can be withdrawn from a saving account up to the amount deposited. Under normal circumstances, customers can withdraw their money from a saving account simply by presenting cheques drawn to the bank. Withdrawals can also be made using their automated teller machine (ATM). Savings accounts are highly liquid. They are different from demand accounts, however, there is limit on amount in cheques and frequency of withdrawals. (Singh, 2063: 170)

The deposit carries low interest rate. It is designed to attract funds from customers, who wish to have security of their fund, have liquidity convenience and also wants to earn some interest on funds deposited.

Legally, a bank can insist on receiving prior notice of a planned withdrawal from saving deposit. (Singh, 2063: 170)

Now a day, in Nepal the Saving deposit has all the features of demand deposit and also earns some interest. Almost all the banks now allow unlimited withdrawal also on the Savings accounts. They represent low cost fund for the banks.

### **Time deposit**

A time deposit (also known as a term deposit or fixed deposit) is a money deposit at a banking institution that cannot be withdrawn for a certain "term" or period of time. When the term is over it can be withdrawn or it can be held for another term. Generally speaking, the longer the term the better the yield on the money. A certificate of deposit also is a time-deposit product.

The opposite is a Demand deposit or a sight deposit which can be withdrawn at any time, without any notice or penalty; e.g. money deposited in a checking account or savings account in a bank. ("Time Deposit," 2009) These accounts represent high cost deposit.

### **2.3.2 Loans**

The banks extend fund to the ones who need it in form of loans. The borrower initially receives an amount of money from the lender, to be paid back, usually but not always in regular installments, to the lender. In addition to the principal, the lending institution generally charges the borrower a fee, referred to as interest on the debt, for the privilege of using fund. The lender acts merely as an intermediary between the borrower and the party providing the goods or services that the borrower obtains with her loan money. ("Loan," 2009)

### **2.3.3 Agency**

Banks also act as agent for their customers. They provide documentary and standby letter of credit, guarantees, securities underwriting commitments and other forms of off balance sheet exposures.

### **2.3.4 Remittance**

Banks also provide services of remitting funds from one place to another. Previously these functions are mainly done via Bank Drafts, and Travellers Cheques. But now a days these medium are replaced by the electronic fund transfer. Most of the banks today in Nepal have ABBS (Any Branch Banking System) hence remitting funds from the one branch of a bank to another branch of the same banks has become very easier. Also most of the banks now have their own online remittance service for remitting funds from Middle East Countries to the country.

## **2.4 Assets of a bank**

### **2.4.1 Loans and Advances**

This is the major assets of a bank commanding higher proportion of total assets of any bank. This is also a primary function of bank. Primarily, banks are there to accept deposit and to advance credit. Legally, a loan is a contractual promise between two parties where one party, the creditor, agrees to provide a sum of money to a debtor, who promises to return the money to the creditor either in one lump sum or in parts over a fixed period in time. In addition to the principal, the lending institution generally charges the borrower a fee, referred to as interest on the debt, for the privilege of using this newly-created money. This interest is the major source of income for any bank, which covers interest to be paid to deposit holders and other operational costs like staff salary, rent, utility bills, stationeries etc. Where there is lending there always is risk of default. In finance, default occurs when a debtor has not met its legal obligations according to the debt contract, e.g. it has not made a scheduled payment, or has violated a loan covenant (condition) of the debt contract. It is the failure to pay back a loan. Default may occur if the debtor is either unwilling or unable to pay their debt.

### **2.4.2 Investment**

In finance, investment is the buying securities or other monetary or paper (financial) assets in the money markets or capital markets, or in fairly liquid real assets, such as gold or real estate, or collectibles. Types of financial investments include shares, other equity

investment, and bonds (including bonds denominated in foreign currencies). These financial assets are then expected to provide income or positive future cash flows, and may increase or decrease in value giving the investor capital gains or losses. ("Investment," 2009)

Banks also invest some of their fund in the government bonds, bonds and shares of other companies in order to manage liquidity and also earn some return on the fund. This is comes under the Investment heading in their balance-sheet.

### **2.4.3 Fixed Assets**

These are items of value which the organization has bought and will use for an extended period of time; fixed assets normally include items such as land and buildings, motor vehicles, furniture, office equipment, computers, fixtures and fittings, and plant and machinery. Fixed Assets are items of property, plant and equipment engaged by a business entity in the generation and expansion of revenue. According to International Accounting Standard (IAS) 16, Fixed Assets are assets whose future economic benefit is probable to flow into the entity, whose cost can be measured reliably. The cost of a fixed asset is its purchase price, including import duties and other deductible trade discounts and rebates. In addition, cost attributable to bringing and installing the asset in its needed location and the initial estimate of dismantling and removing the item if they are eventually no longer needed on the location. ("Fixed asset," 2009)

### **2.4.4 Non Banking Asset**

When a loan defaults, banks may have to take possession of a certain asset charged in its favor on account of the failure of a debtor to repay the loan in time by settling the loan. This is shown in the bank's balance-sheet as Non Banking Asset (NBA). NBA is booked when the collateralized asset can't be sold on auction. While booking NBA, NBA account is debited and loan account is credited hence settling the NPA loan. However, banks have to dispose off the asset as early as possible. In the year of acquisition of asset provision of 25% should be provided, next year it is increased to 50%, next year to 75% and the following year to 100%.

#### **2.4.5 Cash & Equivalent**

#### **2.4.6 Other Assets**

These include stationeries, accrued interest, sundry debtors, receivables, staff loans, cash in transit etc.

### **2.5 Loans and Advances**

Banks extend various types of loans and advances. The forms of advances can be broadly classified into following categories:

#### **2.5.1 Overdraft/Cash Credit**

In this type of facility a credit limit is given to the borrower. A credit limit is the maximum amount of credit that a bank will extend to a borrower. This limit is based on a variety of factors ranging from an individual's ability to make interest payments, an organization's cash flow and/or ability to repay the principal, need of the borrower to the credit standards employed by the lender. A credit limit is also based on the borrower's recoverable assets in the event of default. There is no restriction on deposit and withdrawal of funds up to the credit limit and interest is charged only on the amount utilized. Interest is recovered on quarterly basis. Such line of credit is extended initially for a year but renewable for further period. This type of facility is generally extended to businesses for meeting their working capital need.

#### **2.5.2 Demand Loan**

These types of facility has no specific maturity date, but payable at any time. But for convenience in practice it is generally extended for period ranging from 3 months to 3 years. Only interest is paid until the principal is paid off, or until the lender demands repayment of principal. The borrower may, however, pay off the loan early, without incurring a prepayment penalty.

#### **2.5.3 Trust Receipt Loans**

These types of loans are generally extended against import documents like bills and letter of credit. When any borrower import some merchandise via Letter of Credit, then these

documents are retired by booking the Trust Receipt Loans. As these types of facilities can be closely monitored they bear lower interest rate than Cash Credit/Overdraft accounts as they are considered comparatively safe. These types of loans are extended for maximum 90 days, as directed by Nepal Rastra Bank (NRB).

#### **2.5.4 Term Loans**

These are the types of loans that have maturity period more than one year. These types of loans are generally extended for acquisition of fixed assets like Plant & Machinery, Land & Building, Vehicles etc. The loan is repayable in fixed installments and repaid amount can't be withdrawn again. The non payment of installment is considered serious. These types of loans are repaid from the Cash Accruals of the business but not from the Sales Revenue.

### **2.6 Retail and Corporate Lending**

During the period of Maoist Insurgency the investment climate of the country deteriorated dramatically. There was no place to lend as no industry was performing satisfactory. In this scenario the banks diverted to retail lending for their survival. Retail lending can be classified as personal finance and financing small businesses. This avenue helped banks to survive in the era of conflict and now standing as major venture of banks. Housing Loans, Vehicle Loans, Education Loans, Personal Overdrafts etc are some examples of it. These loans also helped banks to diversify their risks. Now a days these types of loans constitutes 20-30% of total lending of banks and banks are eager to increase this ratio.

Corporate lending refers to the loans extended to the businesses. Project financing, working capital financing, Letters of Credit, Trust Receipts, Export Credits, Documentary bills purchase etc all are done in corporate lending.

### **2.7 Introduction to Non Performing Assets (NPA)**

Non Performing Asset means an asset or account of borrower, which has been classified by a bank or financial institution as sub-standard, doubtful or loss asset, in accordance

with the directions or guidelines relating to asset classification issued by Nepal Rastra Bank.

### **2.7.1 Classification of Loans & Advances**

#### **Pass**

All Loans & Advances the principal or interest of which are not past due or past due for a period up to three months are included in this category. (Unified NRB Directives 2068) The banks should make a loan loss provisioning of minimum 1% on outstanding loan for this category of loan. The following loans and advances are categorized under pass loans;

- ) Loan and advances against Gold and Silver.
- ) Loan and advances against Fixed Deposit Receipt (FDR).
- ) Loan and advances against Investment Papers of Government and debentures and bond of Nepal Rastra Bank.

#### **Substandard**

All loans and advances the principal or interest of which are past due for a period of more than 3 months and up to 6 months are included in this category. (Unified NRB Directives 2068) The banks should make a loan loss provisioning of minimum 25% on outstanding loan for this category of loan.

#### **Doubtful**

All loans and advances the principal or interest of which are past due for a period of more than 6 months and up to 12 months (1 year) are included in this category. (Unified NRB Directives 2068) The banks should make a loan loss provisioning of minimum 50% on outstanding loan for this category of loan.

#### **Loss**

All loans and advances the principal or interest of which are past due for a period of more than 1 year are included in this category. (Unified NRB Directives 2068) The banks

should make a loan loss provisioning of 100% on outstanding loan for this category of loan.

Expired TR loans and Credit Card loans should be categorized under Loss category immediate after their expiry.

Performing Loan means Pass loans and rescheduled and restructured loans and Non-Performing Loans (NPAs) means Substandard, Doubtful or Loss loans. (Unified NRB Directives 2068)

### **Loan Rescheduling and Restructuring**

When the loan becomes NPA due to factors beyond control of the borrower and the borrower is not a willful defaulter and the borrower wants to repay loan according to his capacity then the loan can be rescheduled or restructured. The term “reschedule” means process of extending repayment period either by increasing the loan tenure with lower installments amount or by extending maturity by providing moratorium period and the term ”restructure” means process of changing the nature or conditions of loan/facility, adding or deleting of conditions and change the limit. (Unified NRB Directives 2068) The banks should make a loan loss provisioning of minimum 12.5% on outstanding loan for this category of loan.

## **2.8 Overdue and Interest Suspense**

The loan or installment of loan which is not paid within its due date is called overdue loan. Suppose Housing Loan borrower has to pay monthly installment of Rs 20,000 at the end of each month, if the borrower fails to pay the same installment by the month end then it becomes overdue. If he subsequently fails to pay his installments then the loan becomes overdue for 2 months, 3 months as so on. The loan account which comes in this list is the early sign of sickness of the account.

In case of TR loans and Demand Loans if the loan amount (principal+interest) is not paid within due date then it becomes overdue. For instance, a TR loan is generally granted for 120 days (as per Unified NRB Directives 2068), if A company is granted TR loan on 1

Jan then it must pay it back by 30 April. If not paid within 30 April then the TR becomes overdue. We can also do aging for measuring the seriousness of the problem.

The revolving Credit Account or Line of Credit becomes overdue when the loan is not repaid, or renewed within expiry date or interest of the account is overdue. These overdue accounts should be classified as per the NRB norms.

More than this the early sign of the sickness is shown by the Interest Suspense. Now a days interest income is taken on Cash basis and interest should be recovered on quarterly basis as per Nepali calendar as per NRB norms. If the interest is not realized within the last day of quarter itself then the amount goes to Interest Suspense and can't be taken as income. So, monitoring of this account is crucial both from point of view of curbing NPA and generation of income.

## **2.9 Operating Expenses**

An operating expense is an on-going cost for running a business. Its counterpart, a capital expenditure, is the cost of developing or providing non-consumable parts for the product or system. For example, the purchase of a photocopier is the Capital Expenditure, and the annual paper and toner cost is the operating expenses. For larger systems like businesses, operating expenses also include the cost of workers and facility expenses such as rent and utilities. On an income statement, "operating expenses" is the sum of a business's operating expenses for a period of time, such as a month or year. ("Operating expense," 2009)

For the commercial banks in Nepal operating expenses includes staff expenses, other operating expenses which includes rent, utility bills, insurance, stationary and periodicals, repair and maintenance etc and exchange fluctuation losses.

## **2.10 Interest Spread**

This is the difference in yield on advances and cost of deposit. This is the gross margin for commercial banks. This ratio determines the profitability of the banks. Higher the spread higher will be the income other things remaining constant. For example if a bank

earns on average 14% return on its advances and has to pay 10% interest on its deposit. Then the interest spread of the bank is 4% which must cover all the cost of the bank and provide profit.

## **2.11 Net Interest Income**

The net interest income is the gap between the total interest income and total interest expenses. This is yielded by subtracting total interest expenses from total interest income. It is often called interest margin. It is usually a key determinant for bank profitability. (Singh, 2063: 121)

## **2.12 Capital Adequacy**

This denotes the risk management and risk absorbing capacity of the bank. There must be enough equity capital with the bank to take the risky ventures. It can't play with the fund of deposit holders. These measures also affect the profitability of the banks, which induces banks to invest in less risky ventures.

Banks must maintain capital fund on the basis of amount of assets held and riskiness of the assets held. They must maintain certain percentage of capital fund of the total risk weighted exposure. Risk weight is assigned according to the riskiness of the exposure. For example risk weight of loan against residential property is lower than risk weight against commercial property. So with the same amount of capital banks can lend lower amount against commercial property vis-à-vis against residential property.

Till now Nepalese banks were adopting simple capital adequacy norms based on weighted risk weighted exposure. But from FY 2007/08 Basel II capital adequate norms is implemented.

### **2.12.1 Basel II Capital Adequacy framework**

Prior to 1988, there was no uniform international regulatory standard for setting bank capital requirements. In 1988, the Basel Committee on Banking Supervision (BCBS) developed the Capital Accord, which is known as Basel I, to align the capital adequacy requirements applicable especially to banks in G-10 countries. Basel I introduced two key

concepts. First, it defined what banks could hold as capital, as well as designating capital as Tier 1 or Tier 2 according to its loss absorbing or creditor-protecting characteristics. The second key concept introduced in Basel I was that capital should be held by banks in relation to the risks that they face. The major risks faced by banks relate to the assets held on balance sheet. Thus, Basel I calculated banks' minimum capital requirements as a percentage of assets, which are adjusted in accordance to their riskiness and assigning risk weights to assets. Higher weights are assigned to riskier assets such as corporate loans, and lower weights are assigned to less risky assets, such as exposures to government.

The BCBS released the "International Convergence of Capital Measurements and Capital Standards: Revised Framework", popularly known as Basel II, on June 26, 2004. This framework was updated in November 2005 and a comprehensive version of the framework was issued in June 2006. Basel II builds significantly on Basel I by increasing the sensitivity of capital to key bank risks. In addition, Basel II recognizes that banks can face a multitude of risks, ranging from the traditional risks associated with financial intermediation to the day-to-day risks of operating a business as well as the risks associated with the ups and downs of the local and international economies. As a result, the new framework more explicitly associates capital requirements with the particular categories of major risks that banks face.

The new capital framework also recognizes that large, usually internationally active banks have already put in place sophisticated approaches to risk measurement and management based on statistical inference rather than judgment alone. Thus, the framework allows banks, under certain conditions, to use their own 'internal' models and techniques to measure the key risks that they face, the probability of loss, and the capital required to meet those losses. In developing the new framework, the Basel Committee wanted to incorporate many elements that help promote a sound and efficient financial system over and above the setting of minimum capital requirements. With this in mind, the Basel II framework incorporates three complementary 'pillars' that draw on the range of approaches to help ensure that banks are adequately capitalized in commensurate with their risk profile.

The Basel Committees on Banking Supervision's (BCBS) recommendations on capital accord are important guiding framework for the regulatory capital requirement to the banking industry all over the world and Nepal is no exception. Realizing the significance of capital for ensuring the safety and soundness of the banks and the banking system, at large, Nepal Rastra Bank (NRB) has developed and enforced capital adequacy requirement based on international practices with appropriate level of customization based on domestic state of market developments. The existing regulatory capital is largely based on the Basel committee's 1988 recommendations.

With a view of adopting the international best practices, NRB has already expressed its intention to adopt the Basel II framework, albeit in a simplified form. In line with the international development and thorough discussion with the stakeholders, evaluation and assessment of impact studies at various phases, this framework has been drafted. This framework provides the guidelines for the implementation of Basel II framework in Nepal. Reminiscent of the International convergence of capital measurements and capital standards, this framework also builds around three mutually reinforcing pillars, viz. minimum capital requirements, supervisory review process and disclosure requirements. (NRB, Capital Adequacy Framework 2008, 5-6)

#### **2.12.1.1 Objective**

The main objective of this framework is to develop safe and sound financial system by way of sufficient amount of qualitative capital and risk management practices. This framework is intended to ensure that each commercial banks maintain a level of capital which

- is adequate to protect its depositors and creditors.
- is commensurate with the risk associated activities and profile of the commercial bank.
- promotes public confidence in the banking system.

(NRB, Capital Adequacy Framework 2008, 6)

### 2.12.1.2 Pre-Requisites

The effective implementation of this framework is dependent on various factors.

Some such pre-requisites are:

- i. Implementation of Basel Core Principles for effective Banking Supervision
- ii. Adoption of the sound practices for the management of Operational Risk
- iii. Formulation and adoption of comprehensive risk management policy
- iv. Adherence to high degree of corporate governance.

(NRB, Capital Adequacy Framework 2008, 6-7)

### 2.12.1.3 Approaches of Basel II

A major innovation of the Basel II is the introduction of distinct options for the calculation of three types of risk. For credit, operational and market risk, there are different approaches of increasing risk sensitivity to allow banks and supervisors to select the approach or approaches that they believe are most appropriate to the stage of development of bank's operations and of the financial market infrastructure. The following table identifies primary approaches available by risk type.

| <b>Credit Risk</b>      | <b>Operational Risk</b>             | <b>Market Risk</b>      |
|-------------------------|-------------------------------------|-------------------------|
| Standardized Approach   | Basic Indicator Approach            | Standardized Approach   |
| Foundation IRB Approach | Standardized Approach               | Internal Model Approach |
| Advanced IRB Approach   | Advances Measurement Approach (AMA) | Net Open Position       |

Currently, Nepal is following simplified Standardized Approach for Credit Risk, Basic Indicator Approach for Operational Risk and Net Open Position Approach for Market Risk. (NRB, Basel II FAQ 2008)

### 2.12.1.4 Basic characteristics of Basel II

- It captures the risk through its three pillars

- a. Minimum Capital Requirement
  - b. Supervisory review process
  - c. Market discipline
- It addresses not only the credit & market risk but also the Operational risk.
  - The risk is computed based on the actual risk profile of the counter part. It is not ad-hoc or general. Hence, the capital is truly risk based.

(NRB, Basel II FAQ 2008)

### **2.12.1.5 Tier I & Tier II capital**

Capital that is fully paid up and having no fixed servicing or dividend costs attached to it and freely available to absorb losses quality as Tier I capital. Capital also needs to have a very high degree of permanence if it is to be treated as Tier I. Tier I capital is also subject to specified deductions from it. Tier I capital includes:

1. Paid Up Equity Capital
2. Irredeemable non-cumulative preference shares
3. Share Premium
4. Proposed Bonus Equity Share
5. Statutory General Reserve.
6. Retained Earnings available for distribution to shareholders.
7. Un-audited current year cumulative profit
8. Capital Redemption Reserves created in lieu of redeemable instruments.
9. Capital Adjustment reserves
10. Dividend Equalization Reserves.
11. Any other type of reserves notified by NRB from time to time for inclusion in Tier I capital.

(NRB, Capital Adequacy Framework 2008, 9)

Tier II capital consists of

1. general loan loss provision
2. revaluation reserve
3. exchange equalization reserve
4. investments adjustment reserve
5. other reserves
6. redeemable preference share and subordinated term debt.

Tier II capital is subject to the certain limitations and restrictions. (NRB, Basel II FAQ 2008)

Sum of Tier I and Tier II capital is Total Capital.

#### **2.12.1.6 Rate of proposed capital requirement**

1. Tier I capital of not less than 6% of total risk weighted exposure
2. Total Capital (Tier I+ Tier II) of not less than 10% of its total risk weighted exposure.

#### **2.12.1.7 What is risk weighted exposure?**

Risk weighted exposure is of maximum amount of risk attached to a portfolio or a transaction or underlying assets. It is the sum of risk weight for Credit Weight, Market Risk and Operational Risk. (NRB, Basel II FAQ 2008)

### **2.13 Risk**

Risk is the probability that an investment's actual return will be different than expected. This includes the possibility of losing some or all of the original investment. Some regard a calculation of the standard deviation of the historical returns or average returns of a specific investment as providing some historical measure of risk. Financial risk may market-dependent, determined by numerous market factors, or operational, resulting from fraudulent behavior. ("Risk," 2009)

### **2.13.1 Sources of Risk**

There are various sources of risk which sums up to a total risk of a project. Some of them are:

#### **Interest Rate Risk**

Interest Rate Risk is defined as the potential variability of return caused by change in the market interest rates. (Francis,1991: 3). There might have been regular change in interest both in the deposits and lending due to which the bank has risk of interest. For example, the recent banking trend in Nepal has witnessed the increase in deposits rate which has resulted in lower interest spread.

#### **Industry Risk**

An industry may be viewed a group of companies that compete with each other to market a homogeneous product. Industry risk is that portion of an total risk caused by events that affect the products and firms that make up an industry. The stage of industry's life cycle, international tariffs and/or quotas on the products produced by an industry, product-or industry related taxes, industry-wide labour union problems, environmental restrictions, raw material availability, and similar factors interact and affect all the firms in an industry simultaneously. (Francis,1991: 9)

#### **Benefit Shortfall (Demand Risk)**

A benefit shortfall results from the actual benefits of a venture being lower than the projected, or estimated, benefits of that venture. If, for instance, a company is launching a new product or service and projected sales are Rs 4 million per year, whereas actual annual sales turn out to be only Rs 3million, then the benefit shortfall is said to be 25 percent. Sometimes the terms "demand shortfall" or "revenue shortfall" are used instead of benefit shortfall. Public and private enterprises alike fall victim to benefit shortfalls. Prudent planning of new ventures will include the risk of benefit shortfalls in risk assessment and risk management. ("Benefit shortfall," 2009)

#### **Legal Risk**

This is the risk caused by governments change the law in a way that adversely affects a bank's position. ("Legal risk," 2009)

### **Operational Risk**

An operational risk is a risk arising from execution of a company's business functions. As such, it is a very broad concept including e.g. fraud risks, legal risks, physical or environmental risks, etc. This is the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. ("Operational risk," 2009)

### **Political Risk**

Political Risk arises from the exploitation of a political weak group for the benefit of a politically strong group, with the efforts of various groups to improve their relative positions increasing the variability of return from the affected assets. Regardless of whether the changes that cause political risk are sought by political or economic interests, the resulting variability of return is called political risk if is accomplished through legislative, judicial, or administrative branches of the government. (Francis,1991: 8)This risk is caused by changes in environmental regulations, zoning requirements, fees, licenses, and most frequently taxes. The taxes may be property taxes, sales taxes, income taxes, or employment taxes. The political risk has largely been seen in Nepalese Banking History.

### **Default Risk**

This risk is the risk of non repayment of loan by the borrower. Due to various reasons the borrower may not be able or do not want to repay the loan it owed to the bank. The borrower may partly or wholly default the loan.

### **Management Risk**

Though many top executives earn princely salaries, occupy luxurious office, and wield enormous power within their organization, they are mortal and capable of marking a mistake or a poor decision. The risk failure due to the poor decision making of management or conflict within management or incompetence of management is

Management Risk. Furthermore, errors made by business managers can harm those who invested in their firms. (Francis,1991: 5)

### **2.13.2 Types of Risk**

#### **Systematic Risk**

The systematic or undiversifiable risk is the portion of the total risk which arises due to market factors. The market factors affect to the whole market are the sources of the systematic risk. Because of the systematic nature; investors can not reduce the risk whatever efficient portfolio they hold. Thus this type of risk is also called un-diversifiable risk. This risk is market pervasive in nature.

#### **Unsystematic Risk**

Unsystematic risk or diversifiable risk is the portion of the total risk which is unexplained by overall market movements. It can be diversified away.

Events such as labour strikes, management errors inventions, advertising campaigns, shifts in consumer inventions, advertising campaigns, shifts in consumer taste and lawsuits cause systematic variability in the value of a market asset.

### **2.14 Diversification**

Diversification means not putting all the eggs in one basket. This idea is to spread risks across a number of assets or investments. It is less risky to spread your fund over 10 assets than over 2 assets. Diversification in is a risk management technique, related to hedging, that mixes a wide variety of investments within a portfolio. It is the spreading out investments to reduce risks. Because the fluctuations of a single security have less impact on a diverse portfolio, diversification minimizes the risk from any one investment.

A simple example of diversification is the following: On a particular island the entire economy consists of two companies: one that sells umbrellas and another that sells sunscreen. If a portfolio is completely invested in the company that sells umbrellas, it will have strong performance during the rainy season, but poor performance when the weather

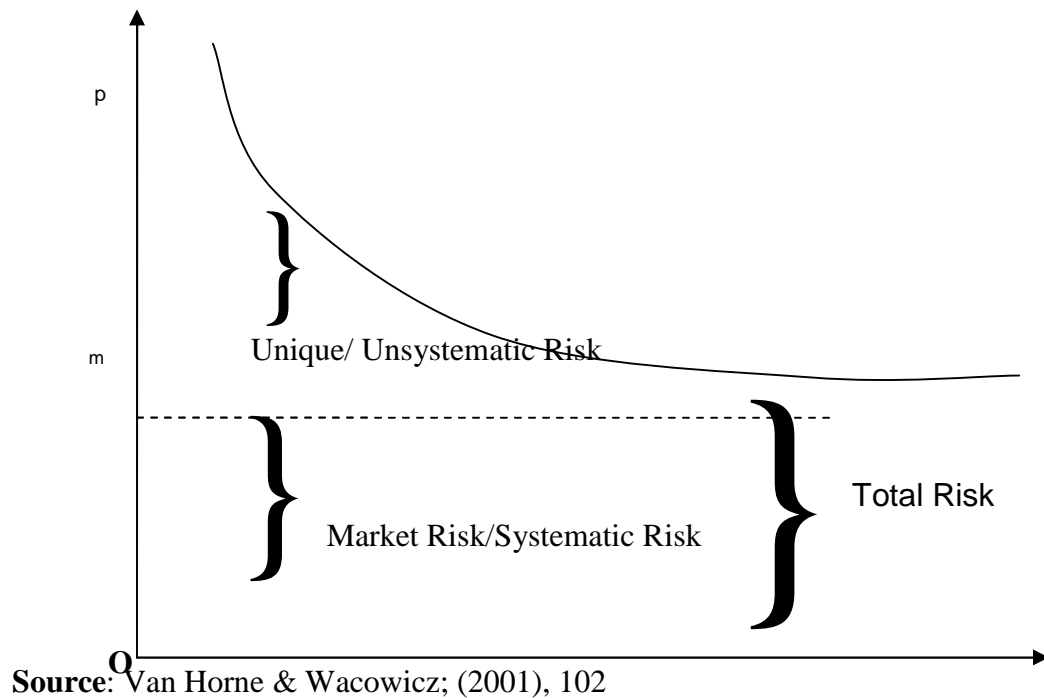
is sunny. The reverse occurs if the portfolio is only invested in the sunscreen company, the alternative investment: the portfolio will be high performance when the sun is out, but will tank when clouds roll in. To minimize the weather-dependent risk in the example portfolio, the investment should be split between the companies. With this diversified portfolio, returns are decent no matter the weather, rather than alternating between excellent and terrible.

There are three primary strategies used in improving diversification:

1. Spread the portfolio among multiple investment vehicles
2. Vary the risk in the projects.
3. Vary your exposure by industry, or by geography.

**Figure 2.1**

**Benefit of Diversification**



Diversified portfolio has reduced risk for the same level of return or higher return for given level of risk. Hence, it is referred to as "the only free lunch in finance." ("Diversification (finance)," 2009)

Banks diversify the risk in various ways, they lend to various types of borrowers. There is good mix of corporate and retail portfolio. Previously banks wanted to take exposure only in the corporate sector and reluctant to go in the retail segment due to high operational cost. But now due to increased competition, squeezed investment able corporate sector and also seeing risk spreading opportunity banks are going to retail segment and wanting to have more share of in the pie.

Banks are also spreading risk among various industry (sector), like trading, industry, service, agriculture and mining etc.

Banks are also going into different geographical location. In this front banks having large branch network has upper hand. They are spreading their investment all over the country. This also helps them to spread risk over various industry and type of loans. Birgunj has more of manufacturing units, Birtamod is a trading hub, Kathmandu Valley has more potential on personal lending, Bhairahawa is hub for cement and agro products and Nepalgunj is known for herbs trading. (Garg, 2009)

## **2.15 Asset Selection Procedure (Pre sanction appraisal)**

The lending process may vary according to size of loan, type of loan and the bank. However, there is certain lending process followed by most banks. The principal lending process has the following steps in general:

### **Loan Application**

Loans arise from a direct request from a customer who approaches bank or marketing from bank's loan officers, marketing officers or other staff members who solicits the targeted or probable customers. The applicant then fills a loan application form. The application form has all the information that mentions the loan amount, purpose, name and address of the loan applicant, repayment plan, repayment source etc.

### **Loan Interview**

Loan interview is one of the important procedure during the pre sanction appraisal. Once a customer decides to request a loan, an interview with a loan usually follows right away, giving the customer the opportunity to explain his or her credit needs. That interview is particularly important because it provides an opportunity for the loan officer to assess the customer's character, need and sincerity of purpose. If a customer fails to provide all the details or the customers themselves are not well known about their need, this must be recorded as a strong factor evaluating against approval of the loan request. (Singh, 2063: 201)

### **Site Visit**

After loan interview bank officials usually makes a site visit. In the site visit physical address of borrower is verified, physical existence and activity of his business is verified. The officer also verifies the property offered as collateral its location, sale ability, access, infrastructure conditions etc. Site visit also helps to verify the accuracy of the information provided by the applicant. In addition to this, the bank official also verifies and makes site visit of residence of promoters/partners or guarantors for the worst case business scenario on which the promoters/partners or guarantors have to be followed up. It also reveals the degree of customer's sincerity and character. (Singh, 2063: 201)

### **Reference Check**

The loan officer may contact other creditors, who have previously lent to this borrower to see what their experience had been. Did the customer fully adhere to previous loan agreements and keep satisfactory deposit balances? This payment record often reveals much about customer's character, sincerity of purpose, and sense of responsibility in making use of bank's loan. (Singh, 2063: 201) Reference Check can also be done from existing customers who knows the applicant and from other personal/official, formal/informal sources. The reference check enables loan officers to know the past history of client, their past banking relationship and their credibility and credit worthiness.

## **Documentation**

If every thing up to this point is favorable, the customer is, then asked to submit several crucial documents to fully evaluate the loan request, including complete financial statements and other legal papers. (Singh, 2063: 201)

### **2.15.1 Credit Analysis**

Once all documents are on file the credit analysis division of the bank conducts a through financial analysis of them aimed at determining whether the customer needs financing, amount of financing needed, also whether he has sufficient cash flow and backup assets to repay the loan. The credit analysis division then prepares a brief summery and recommendation. This recommendation goes to the appropriate authority for approval. It is this stage where analysis of 5 C's of Credit are done and approaches taken by different banks are different for asset selection.

#### **2.15.1.1 Five C's of Credit**

##### **Character**

Character is vital area of credit appraisal. Even if having good financial indicators, the character of the promoters/partners or individuals associated with credit application is found of negative, then the appraisal process should be stooped. It is important to know the willingness to pay of the promoters/partners or individual who are ready to take any credit facility. Character has to do with the probability that a customer will try to honor his or her obligations. This factor is of considerable importance because credit transaction implies a promise to pay. Will the creditor make an honest effort to pay the debts, or is this credit applicant likely to try to get away with something? Experienced credit managers frequently insist that character is the most important issue in credit evaluation. (Weston & Copeland, 1987: 796)

##### **Capacity**

Capacity describes a subjective judgment of the customer's ability to pay. It is gauged by customers past business performance record, supplemented by physical observation of

the plant or store and business methods. (Weston & Copeland, 1987: 796). This is judged by Cash Flow, viability/feasibility, profitability, business risks, risk mitigates, interest/debt service coverage ratio etc. Different banks use different measures to measure the capacity. For example, in case of Housing Loan accounts, EBL seeks that the income of the customer is double of EMI to be paid, where as NSBL seeks sufficient uncommitted monthly income to serve the EMI, it wants uncommitted monthly income of at least 1.33 times of EMI payable. The uncommitted monthly income here implies that the total income less total household and utility expenses.

### **Capital**

Capital is measured by the general financial position of the firm as indicated by a financial ratio analysis, with special emphasis on the tangible net worth of the enterprise. (Weston & Copeland, 1987: 796). It is also termed as equity portion as well. It measured with borrowers margin in project, Debt/Equity ratio. Here also many banks differs in their practice. There is thumb rule in the project financing that debt equity should be 60:40 where as working capital financing can be done in the debt equity of 70:30. But the debt equity ratio is different based on the credit decision of commercial bank. For working capital facility EBL wants to keep 50% margin on receivables, where as NSBL allows it on 25% margin. For project finance NSBL and EBL are comfortable with 30% margin. However, both banks pursue for higher margin.

### **Collateral**

Collateral is represented by fixed assets generally land and building the customer offers as a pledge for security for the credit extended. (Weston & Copeland, 1987: 796) Here also different banks take different approach. In case of Nepal, audited financial are hard to trust so seeking collateral is normal practice, especially on small lending and lending to new borrowers. Banks lend on the basis to Distress Value of the property. The commercial value is the normal value of Fixed Assets collateral in the market. The fair market value is taken on the basis of percentage of market value and government value. In normal practice, generally 70% of market value and 30% of government value is taken as fair market value further which is lowered to 70% of either at 80% of fair market value

as distress value. There is different practice among banks to arrive at distress value. Also there is difference in collateral coverage sought. Also there is difference in importance kept on collateral coverage.

### **Conditions**

Condition has to do with the impact of general economic trends on the firm and special developments in certain areas of the economy that may affect the customer's ability to meet the obligation. (Weston & Copeland, 1987: 796)

After doing all these credit analysis there is internal system for sanction of the loan. Generally certain powers are delegated to dealing level or branch level, the loan sizes beyond that powers are forwarded to the appropriate authorities at the regional office and corporate office. At, corporate office the loan proposal is again reassessed by the Credit Control Cell and forwarded to appropriate authority. Different level of powers and influence are exercised also by Credit Control Cell at different banks. The loan is sanctioned as recommended or by reducing limits, adding extra covenants as deemed necessary by the authority.

### **2.16 Post Sanction Monitoring**

After advancing loan to the customer, it seems to be the end of the process. But in fact, it is the beginning of the process. Credit Officers can't put the signed loan documents on the shelf and forget it. The account should be continuously monitored either monthly, quarterly, semi annually or annually to ensure that the unit is running satisfactorily, the asset quality is not degrading, all the terms and conditions are fully complied with. They also must be continuously followed up for payment of principal and interest, timely renewal, insurance coverage expiry etc. This is the way to keep the asset portfolio healthy and performing and take remedial action in early sign of sickness. This is where the two large state owned banks failed and now facing huge burden of NPAs.

Post Sanction Monitoring is nearly the same for the most of the retail/personal loans among banks. For personal loans no much follow-up is required if the debt obligations are serviced timely and other necessary documents like insurance are submitted timely.

Just periodic visit to the borrower for verification of the collateral security and income source is sufficient. This also helps to keep good relation with the borrower. This makes sense to the borrower that the bank cares. This can be done on yearly or half yearly basis.

For the business loans accounts post sanction monitoring is crucial. For working capital finance, level of current assets should be continuously monitored to control drawing power, to ensure that fund is not being diverted or misused. Different banks set different conditions for this. NSBL seeks quarterly visit by its officials and quarterly submission of stocks and receivables position by the borrower. EBL seeks monthly visit of unit and monthly submission of stocks and receivables statement.

Early sign of sickness are shown by accounts by coming into interest suspense account and overdue TL installments. So these accounts are closely monitored, how closely and how efficiently these accounts are monitored are different in different banks.

## **2.17 Asset Liability Management (ALM)**

In banking, **asset liability management** is the practice of managing risks that arise due to mismatches between the assets and liabilities (debts and assets) of the bank. Banks face several risks such as the liquidity risk, interest rate risk, credit risk and operational risk. Asset Liability management (ALM) is a strategic management tool to manage interest rate risk and liquidity risk faced by banks, other financial services companies and corporations. Banks manage the risks of Asset liability mismatch by matching the assets and liabilities according to the maturity pattern or the matching the duration, by hedging and by securitization. Modern risk management now takes place from an integrated approach to enterprise risk management that reflects the fact that interest rate risk, credit risk, market risk, and liquidity risk are all interrelated. Increasing integrated risk management is done on a full mark to market basis rather than the accounting basis that was at the heart of the first interest rate sensitivity gap and duration calculations. ("Asset liability management," 2009)

The importance of ALM management can be understood with following example:

Consider a bank that borrows Rs 100 at 3.00% for a year and lends the same money at 3.20% to a highly-rated borrower for 5 years. For simplicity, assume interest rates are annually compounded and all interest accumulates to the maturity of the respective obligations. The net transaction appears profitable—the bank is earning a 20 basis point spread—but it entails considerable risk. At the end of a year, the bank will have to find new financing for the loan, which will have 4 more years before it matures. If interest rates have risen, the bank may have to pay a higher rate of interest on the new financing than the fixed 3.20 it is earning on its loan. Suppose, at the end of a year, an applicable 4-year interest rate is 6.00%. The bank is in serious trouble. It is going to be earning 3.20% on its loan and paying 6.00% on its financing. ("Asset-Liability Management," 2009). This is why the banks have to focus on ALM.

## **2.18 Definition of Ratios**

### **NPA Percentage**

The ratio of total Non Performing Asset (NPA) to gross loans of advances is NPA percentage. This is the crucial figure to any bank. This ratio shows the efficiency of all the credit related jobs like credit appraisal, credit monitoring. This ratio also shows the health of the bank. Lower the ratio better the position of bank. For lowering the ratio banks must curb their bad loan, this also enhances their earning capacity. The ratio is calculated by dividing total amount of NPA loans by Total Loans & Advances and expressed in percentage.

$$\text{NPA \%} = \text{Total NPA} / \text{Gross Loans \& Advnaces.}$$

### **C/D Ratio**

This ratio shows the utilization of the available resources. The deposit is the resource of the bank and Credit is the product. Credit is provided from the fund collected as deposit. So how much percentage of total resource is being utilized as earning asset. However, excessive amount of this ratio may cause liquidity and insolvency problem. So there must tradeoff between liquidity and utilization of available opportunity. The ratio in the range

of 70 to 80% is considered healthy. The ratio is calculated by dividing Total amount of credit by total amount of deposit and express in percentage.

$$\text{C/D Ratio} = \text{Total Credit} / \text{Total Deposit}$$

### **I/D Ratio**

A bank can't invest all of the funds collected as deposit in loans. It also must maintain some liquidity to meet contingent large withdrawal. If the bank can't pay its obligation to deposit holders in time negative message will go in the market. Banks, instead of putting all the liquidity as non earning cash banks invest in financial instrument which has high liquidity and also earn some return. This ratio shows the investment made from deposit amount. Excessive amount of this ratio may show inability to invest the funds in profitable manner. This ratio is calculated by dividing total amount of investment made by total deposit amount.

$$\text{I/D Ratio} = \text{Total Investment} / \text{Total Deposit}$$

### **Yield on Advances**

This is the weighted percentage of interest earned p.a. on total loans and advances. This ratio shows the earning capacity of Loans & Advances. Higher the ratio, better the earning capacity of bank's assets. However, very high ratio also may be due to investment in risky assets earning higher return or investment in the assets having higher operating cost, like retail lending. The ratio is calculated by dividing interest income on loans and advances by average loans and advances in the year.

$$\text{Yield on Advances} = \text{Interest Income on Loans \& Advances} / \text{Total Loans \& Advances}$$

### **Yield on Investment**

This ratio shows the earning capacity of Investment. Higher the ratio better the position of the bank. However, higher ratio also may be due to investment in risky and illiquid securities. The ratio is calculated by dividing interest income on investment by average investment in the year

$$\text{Yield on Investment} = \text{Interest Income on Investment} / \text{Total Investment}$$

### **Average Spread**

Average Spread is weighed average on interest received on Loans & Advances and interest to be paid on deposit. It is the gross margin for banks. It is this margin which must cover all the expenses of the banks and earn profit. Higher the ratio better and position of the bank and shows better fund management of the bank Higher spread can be achieved either by increasing the yield on advances or decreasing the cost of deposit. The ratio is calculated by subtracting cost of deposit from the yield on advances.

$$\text{Average Spread} = \text{Yield on Advances} - \text{Cost of Deposit}$$

### **Operating Expenses/Total Assets**

This ratio shows amount of operating expenses needed to manage a Rupee of Asset. The expenses like staff expenses, rent, utility bills, stationary etc are required to manage assets. Higher the amount of assets with a rupee of operating expenses, efficient the bank yielding more return. Lower the ratio higher will be the efficiency, other things held constant. The ratio is calculated by dividing total operating expenses amount by total assets of the bank.

### **Employee Expenses/Total Assets**

This ratio shows efficiency of employees. It is amount of employee expenses needed to manage a Rupee of Asset. Lower the ratio higher will be the efficiency, other things held constant. The ratio is calculated by amount of employee expenses in a year by average amount of asset in the year.

### **Per Employee Business**

This ratio shows efficiency of employees. It is a total business (total loans & advances plus total deposit) handled a employee. Higher the ratio better the efficiency of the employees and organization, other things held constant. This is calculated as:

$$(\text{Total Loans \& Advances} + \text{Total Deposit}) / \text{No. of employees}$$

### **Net Interest Income to Total Operating Income**

This ratio shows the dependence of banks on interest income to generate total income. Interest income is generated from the fund based facility, hence more risky. Lower the ratio safer is the bank. Lowering this ratio also means banks are relying more on other non fund based incomes like remittance, commission/fee and treasury income. This also shows the modernization of banks. Modern banks rely less and less on traditional Interest Income and more and more on other incomes like commission. The ratio is calculated by dividing net interest income by total operating income in the year.

$$= \text{Net Interest Income} / \text{Total Operating Income}$$

### **Fixed Asset/Total Loans & Advances**

Fixed assets are required for the bank for its smooth operation. Fixed assets include vehicles, computers, furniture & fixtures, software etc. However, fixed assets of the firm don't earn income for the bank like other assets, loans and investment. So being a non-earning asset, it should be utilized efficiently. Lower the ratio higher will be the efficiency, other things held constant. The ratio is calculated by dividing total fixed assets by total loans and advances.

### **Capital Adequacy Ratio**

Equity capital acts as a cushion for absorbing loss before it passes on to the deposit holders. Higher the capital higher the loss absorbing capacity of the bank so safer for deposit holders point of view. This also shows the strength of the bank.. There are two types of capital

- i. Core Capital (Tier I Capital)
- ii. Supplementary Capital (Tier II Capital)

Sum of Tier I Capital and Tier II Capital is Total Capital or Capital Fund.

So there are three types of capital adequacy ratio

- i. Core Capital/Total Risk Weighted Asset

- ii. Supplementary Capital/Total Risk Weighted Asset
- iii. Capital Fund/Total Risk Weighted Asset

## **2.19 Review of Journals:**

**Mr. S Fahim Ahmad in his article titled “Credit appraisal techniques” in the Nov 12-18, 2001 issue of “Finance & Market”,** Pakistan’s leading business magazine suggests that forward looking approach should be taken while making credit appraisals. The author has honors degree in Economics / Accounting and a MBA, both from British Universities. Subsequently he has gained over 20 years lending experience with Citibank and American Express Bank, in Pakistan and the Middle East. He has served on the Board of Directors of NDFC and Orix Investment Bank besides other Companies and is presently working as a Credit Advisor with Pakistan Kuwait Investment Company (Pvt.) Ltd. He suggests not to be overwhelmed by marketing or profit center reasons to book a loan but to take a balanced view when booking a loan, taking into account the risk reward aspects. Generally we remain optimistic during the upswing of the business cycle, but tend to forget to see how the borrower will during the downturn, which is a shortsighted approach. Furthermore we tend to place greater emphasis on financials, which are usually outdated; this is further exacerbated by the fact that a descriptive approach is usually taken, rather than an analytical approach, to the credit. Thus a forward looking approach should also be adopted, since the loan will be repaid primarily from future cash flows, not historic performance; however both can be used as good repayment indicators. He suggests analyzing followings carefully while making short term lending decision:

- Company Profile / Ownership
- Proposed Transaction
- Source of repayment
- Security
- Financial Analysis
- Management Evaluation
- Organization Culture, Corporate strategy
- Risk Areas
- Reference Checking

He focuses that lending officer should have reliance on identifiable cash flows for the first way out to repay the loan rather than the security itself.

**Mr. G.P.Muniappan, the then Deputy Governor of India in his address at CII Banking Summit 2002 at Mumbai on April 1, 2002** suggests that “the efficiency of a bank is not always reflected only by the size of its balance sheet but by the level of return on its assets. NPAs do not generate interest income for the banks, but at the same time banks are required to make provisions for such NPAs from their current profits.” He opines that NPAs are not the concern of only lenders but beneficiaries of the financial system as well, as bank credit is the catalyst to the economic growth of the country and any bottleneck in the smooth flow of credit. NPAs have a deleterious effect on the return on assets in several ways:

- They erode current profits through provisioning requirements
- They result in reduced interest income
- They require higher provisioning requirements affecting profits and accretion to capital funds and capacity to increase good quality risk assets in future,
- It has carrying cost on non earning assets and
- They limit recycling of funds, set in asset-liability mismatches, etc

So management of NPA is must for the banks this can be done via having no excess reliance on collateral while lending decision, exchange of credit information among banks, close monitoring of loan accounts especially the large ones.

It is common to for banks running after the same borrower/borrower groups and taking exposures beyond the prescribed exposure limits. It should be kept in mind that running after niche segment may be fine in the short run but is equally fraught with risk. Banks should rather manage within the appropriate exposure limits. A linkage to net owned funds also needs to be developed to control high leverages at borrower level.

In an article published in **New Business Age, Mr. Kamal Subdei (2002)** titled “**growth in Major Commercial Banks**” has compared between the first six month of fiscal year 2002-03, which shows that there has been noticeable increase in credit outflow by the

commercial banks except of Nepal Bank Limited and Rastriya Banijya Bank (RBB). There has been increase in credit deposit (C/D) ratios of all commercial banks except of NBL and RBB in which case it has gone down by 10.41% and 5.99% respectively. It may be because their concentration was only on recovery of the huge Non Performing Assets (NPA). However, Mr. Subedi pointed out that no matter what the size of NPA is and the circumstances are, each bank has to collect deposit in order to create a lending and to invest in the new ventures. Except RBB all banks have increment in deposit collection (Subedi: (2002); 47-48).

A decrease in C/D ratio signifies the presence of high liquidity and comparatively lower fund mobilization and vice versa. High liquidity and idle funds will result in lower profits. HBL has the highest growth of 18.47% in CD ratio over the last year. Similarly, NABIL, EBL and NSBL have recorded growth rates of 6.28%, 1.83% and 7.45% respectively in their CD ratio.

## **2.20 Review of prior studies**

**Sherstha, (1995)** in her study “Portfolio behavior of commercial banks in Nepal” has made remarkable efforts to examine various portfolio behavior of commercial banks in Nepal such as investment portfolio, liability portfolio, assets portfolio etc. According to her, commercial banks invest in government securities, national saving bonds, debentures and Company’s shares. On the basis of this study she found that the supply of bank credit was expected to depend on total deposit, lending rate, bank rate, lagged variables and the dummy variables. Similarly demand of banks credit was assumed to be affected by national income, lending rate, Treasury bill rate and other variables. The resources of commercial banks expected to be related with variables like total deposit, cash reserve requirement, bank rate and lending rate. On the basis of her study following conclusion has been made:

- The relation of banks portfolio variables as found to be best explained by log-linear equation.
- Demand of deposit for commercial banks in Nepal is positively affected by the GDP from non-agriculture and the deposit rate and lending rate of interest.
- The investment of commercial banks on government securities has been observed to be affected by total deposit; cash reserve requirements, Treasury bill rates and lending rates.

- The investment of commercial banks in shares and securities is normal and not found to have strategic decisions towards investment in shares and securities.
- The loan loss ratio has been found to increase with low recovery of loan.

### **Unpublished Thesis**

Very few thesis works have been done in the field of asset management of Nepalese banks. However, some relevant thesis works have been reviewed here. They are presented below:

**Poudel, (2002)**, in his thesis “Liquidity and Investment Position of Joint Venture Commercial Banks in Nepal” had made an attempt to evaluate liquidity and investment of joint venture banks special reference to Everest Bank Ltd and Nabil with the help of different financial statistical tools like ratio analysis, correlation coefficient. He has conducted that liquidity position of EBL is comparatively better than Nabil. Growth rate of investment is higher in EBL than Nabil. He further found the banks do not have constant and consistent liquidity and investment policy. There is no standard and uniform rate or ratio for maintaining liquidity assets by the commercial bank at its own judgment may decide to maintain an appropriate level of liquid assets. So he has recommended exploring such investment and to increase its investment on shares and debenture. The bank should have laid down policy for timely review of portfolio and to maintain risk and return.

**Joshi, (2003)**, on “Financial Analysis of NIBL” has found out that the analysis of the bank shows that the deposit have been increasing gradually during the study period i.e. (1996/97-2000/01). However the rate of increase was comparatively low in the year 1997/98 than in the year 2000/01. Total loans and advances have also been increasing. The total investment of banks has been increasing over the years, which is mainly due to bank strategy of safe lending.

As the loan and advances from the bank is increasing provision for loan loss has also been increasing. The bank has been holding adequate provision for losses over the years and the general loan loss provision was 4% in average.

In her study, she has recommended that the bank should focus more on non risky lending opportunities such as mortgages, housing loans and personal loans. It should carefully examine

safety of principle as well as sources of repayment, capital structure, requirement and credit worthiness of a borrower for providing credits. In other words, credit manager should evaluate credit risk by considering well-known 5C's of credit viz, character, capacity, capital, collateral and conditions.

The financial analysis of NIBL, has been analyzed and interpreted in this thesis. Analysis on terms of loan and advances is simply presented with comparison with previous year data only. On the loans and advances part, it has only simple comparison been done. Whether, the loan classification and provisioning of loans, investment in priority and deprived sector loan investment regulation of NRB's directives has been followed or not has not been explained.

**Khaniya, (2003)**, prepared the thesis on entitled "Investment Portfolio Analysis of Joint Venture Banks", five listed joint venture banks: NABIL, SCBNL, HBL, NBBL & EBL as samples. The main objective of the study was to study portfolio structure of NABIL banks Ltd. as compared to other joint venture banks. From her findings the investment portfolio structure of NABIL banks is almost similar to other joint venture banks investment portfolio. Hence, NABIL is following market trend in composing investment. Portfolio in various sectors as most of the investment is concentrated into loans & advances to private sector enterprises and securities investment is to purchase of government securities. The financial performance of NABIL banks is at moderate position to other joint venture banks, some of banks earn high and some banks earn low then NABIL banks.

**Bhatta, (2003)**, prepared a thesis entitled "Portfolio Management of Listed Finance Companies in Nepal." The main objective of the study was to identify the present situation of portfolio management of finance Company in Nepal with the help of risk return and other relevant variables. This concludes that the most of finance companies have enough unsystematic risk (diversifiable risk) that means there is no effective portfolio management of listed finance companies. In the context of portfolio risk and return of Nepalese finance companies investor has to bear a higher portfolio risk to increase little bid of portfolio return.

The major problem to manage the portfolio is volatility of different securities in Nepalese capital market. For the selection of portfolio in Nepal technical analysis does not work effectively but

fundamental analysis work effectively. In Nepalese stock market passive strategy is more suitable than active strategy to achieve better results. Corporate investor think portfolio evaluation is necessary but lack of specific knowledge, they depend on conventional method.

**Kisi, (2006)**, in this thesis titled “Portfolio Analysis of Commercial Banks in Nepal.” Mr. Satya Ram Kisi has made an effort to examine the concept of investment and loans and advances portfolio of commercial banks. In this study he has analyzed financial performance and portfolio of commercial banks with ratio analysis, investment portfolio analysis, loans and advances portfolio, risk and return analysis and trend analysis. He concluded that commercial banks are investing considerably higher amount of their fund in government securities. They are investing very low amount of their fund in shares of other companies i.e. less than 1% on average. The banks are providing very high amount of their funds on private sector i.e. more than 82% on average. Joint venture banks are giving second priority to the foreign bills purchase and discount. The beta coefficient of commercial banks has higher than 1, the commercial banks have some risky assets. The return of CBs lies above the security market line, which indicates that commercial banks stock, is under price and accepted. Through the trend of loans and investment and total deposits of CBs are increasing, the percentage change in each year is decreasing. The financial performance of CBs the joint venture banks are found to be performing better than the domestic Nepalese banks operating in the same environment.

**Bhandari, (2007)**, in his thesis “A Study on Impact of Interest Rate Structure on Investment Portfolio of CBs of Nepal”. The main objective of his study was to see the impact of interest rate structure on investment portfolio of CBs by analyzing their deposit, loans and advances, interest spread investment and bills purchased and discounted. He has concluded that the deposit rates and lending rates of the CBs have been changing time to time. It is found that the deposit rates and lending rates slightly increased after liberalization of interest rates on August 31, 1989 after that these rates started to decline. CBs investment in government and other securities dramatically increased which is due to lack of proper utilization of collected resources in other sectors. He further found that commercial banks invest a small part of their resources in non fund based areas such as purchase and discount of bills. His recommendation was to attract more deposits, commercial banks offer more incentives and other low yields securities.

**Anu, (2009)** in his thesis ‘ A comparative study on Assets Management of Everest Bank Ltd. and Nepal SBI Bank Ltd.’ highlighted the major credit lending procedure of these two banks. He has explained the Assets Management procedure, composition of their lending, NPA composition and major indicators for the credit decision. The followings were the conclusion of his study;

The study was focused on the efficient management of NPA, lending procedure and overall performance. The study has been able to make comparison study over the 5 years performance starting from 2003/04 to 2007/08 EBL. This study had concluded that over the five years period the profitability of EBL has increased at higher level in comparison to NSBL. The gross loans and advances of NSBL has also increase but the gross loans and advances of EBL has increased comparatively at higher volume. NSBL is better than EBL in the efficiency front. It has better mobilized its manpower and assets to generate business and income. Both the banks have high reliance on interest income. This is the sign of traditional banking. Both should focus on other commission and fee based non fund based business. EBL has stronger customer base. It is strong in retail lending front where as NSBL is more strong in corporate lending front. This may be due to fact that, from the initial phase EBL stressed in retail front but NSBL initially tried to do wholesale banking, only later it understood the benefit of retail lending. However, NSBL also is doing slowly in this front. NSBL has more realistic credit standards than EBL. It seems that EBL haphazardly sets the credit norms like income requirement, current ratio requirement etc. NSBL does more study while setting credit norms.

### **Research Gap**

From the above study the researcher found the gap that all of the previous research on portfolio management has been based on showing the risk and return analysis of the stock of commercial banks, portfolio management of banks assets mainly of investments, but none of the researches are able to analyze of all round asset management focusing loans, NPA, efficiency of assets and riskiness of assets. Previous research was not able to show the real picture about how the banks are managing their assets, like earning power assets, asset quality, monitoring of assets, liquidity management and loss absorbing capacity.

Not any research has been done on sampled banks. Also because of time period the previous research has become obsolete.

## **CHAPTER III**

### **RESEARCH METHODOLOGY**

Research methodology refers to the various sequential steps to adopt by a researcher in studying a problem with certain objectives in view. (Kothari, 1989: 189) Research methodology describes the methods and process, which has been applied in the entire aspect of the study. So in this study Research Methodology has been paid due attention to achieve the objectives of the study.

#### **3.1 Research Design**

The research design is an organized approach and not a collection of loose, unrelated parts. It is an integrated system that guides the researcher in formulating, implementing and controlling the study. Useful research design can produce the answers to the proposed research questions. The research design is thus an integrated frame that guides the researcher in planning and executing the research works.

#### **3.2 Population and Sample**

There are 32 commercial banks in Nepal till this date. Among these, this study intends to dissert the asset management practice of two major joint venture banks of Nepal, Nepal SBI Bank Limited and Everest Bank Limited. The two banks are chosen because of similarity between both of them. They both started operation in same time, both are the in joint ventures with two biggest state owned banks of India and management of both banks are being handled by the two largest state owned banks of India viz State Bank of India and Punjab National Bank.

#### **3.3 Source of Data**

The research study is mainly based on secondary data. However, to certain extent, primary data also is used. The secondary data is gathered mainly from annual reports of the Banks, quarterly financial publications of concerned banks, web sites of both banks and web site of NRB.

Primary data also is collected from the annual report of both of these bank and unstructured interview from the concerned authorities.

### **3.4 Variable and Measures**

According to research objectives, to analyze asset management practice of two banks. Loans & Advances being major asset of the banks mainly figures related to loans and advances will be collected. Various ratios NPA percentage, C/D ratio, Yield on Loans & Advances, Yield on Investment, capital adequacy, operating expenses to total assets, total income to total assets, staff expenses to total assets, per employee loans and advances, interest suspense to total L&A etc will be examined. Also some absolute figures and growth percentages is also measured. The following financial tools are described below:

#### **3.4.1 NPA Percentage**

This ratio shows the total NPA loan in the percentage of Gross Loans & Advances and calculated as.

$$\text{NPA \%} = \text{Total NPA} / \text{Gross Loans \& Advnaces.}$$

#### **3.4.2 C/D Ratio**

This ratio shows the utilization of the available resources. The deposit is the resource of the bank and Credit is the product. So how much percentage of total resource is being utilized as earning asset. However, excessive amount of this ratio may cause liquidity and insolvency problem

$$\text{C/D Ratio} = \text{Total Credit} / \text{Total Deposit}$$

#### **3.4.3 I/D Ratio**

This ratio shows the utilization of the liquidity position. Investment is done to maintain liquidity and also to earn some return on it. However, excessive amount of this ratio may show inability to invest the funds in profitable manner.

$$\text{I/D Ratio} = \text{Total Investment} / \text{Total Deposit}$$

#### **3.4.4 Yield on Advances**

This is the weighted percentage of interest earned p.a. on total loans and advances. This ratio shows the earning capacity of Loans & Advances.

$$\text{Yield on Advances} = \text{Interest Income on Loans \& Advances} / \text{Total Loans \& Advances}$$

#### **3.4.5 Yield on Investment**

This ratio shows the earning capacity of Investment.

$$\text{Yield on Investment} = \text{Interest Income on Investment} / \text{Total Investment}$$

#### **3.4.6 Average Spread**

Average Spread is weighed average on interest received on Loans & Advances and interest to be paid on deposit. It is the gross margin for banks. It is this margin which covers all the expenses of the banks. Higher the ratio better and position of the bank and shows better fund management of the bank

$$\text{Average Spread} = \text{Yield on Advances} - \text{Cost of Deposit}$$

#### **3.4.7 Operating Expenses/Total Assets**

This ratio shows amount of operating expenses needed to manage a Rupee of Asset. Lower the ratio higher will be the efficiency, other things held constant.

#### **3.4.8 Employee Expenses/Total Assets**

This ratio shows efficiency of employees. It is amount of employee expenses needed to manage a Rupee of Asset. Lower the ratio higher will be the efficiency, other things held constant

### **3.4.9 Per Employee Business**

This ratio shows efficiency of employees. It is a total business (total loans & advances plus total deposit) handled a employee. This is calculated as:

$$\text{(Total Loans \& Advances+ Total Deposit)/ No. of employees}$$

### **3.4.10 Net Interest Income to Total Operating Income**

This ratio shows the dependence of banks on interest income to generate total income. The ratio is calculated as:

$$= \text{Net Interest Income/Total Operating Income}$$

Interest income is generated from the fund based facility, hence more risky. Lower the ratio safer is the bank. Lowering this ratio also means banks are relying more on other incomes like remittance, commission/fee and treasury income. This also shows the modernization of banks. Modern banks rely less and less on traditional Interest Income and more and more on other incomes like commission.

### **3.4.11 Fixed Asset/Total Loans & Advances**

Fixed asset of the firm being non earning asset, it should be utilized efficiently. Lower the ratio higher will be the efficiency, other things held constant.

### **3.4.12 Capital Adequacy Ratio**

This ratio shows the loss absorbing capacity of the banks. There are two types of capital

- i. Core Capital (Tier I Capital)
- ii. Supplementary Capital (Tier II Capital)

Sum of Tier I Capital and Tier II Capital is Total Capital or Capital Fund.

So there are three types of capital adequacy ratio

- i. Core Capital/Total Risk Weighted Asset

- ii. Supplementary Capital/Total Risk Weighted Asset
- iii. Capital Fund/Total Risk Weighted Asset

### **3.5 Statistical Tools**

The statistical tools are used are explained briefly as follows:

#### **3.5.1 Simple Arithmetic Mean**

Arithmetic mean or simply a mean of a set of observation is the sum of all observations divided by the number of observations. Arithmetic mean is also known as the arithmetic average.

#### **3.5.2 Standard Deviations**

The measurement of the scatter ness of the mass of figures in a series about an average is known as dispersion. The standard deviation measure the absolute dispersion. The greater the amount of dispersion indicate greater the standard deviation. A small standard deviation means a high degree of uniformity of the observation as well as homogeneity of the series. In this study, standard deviation is calculated for selected dependent and independent variables specifies in the models presented above.

#### **3.5.3 Coefficient of Variation**

The standard deviation as stated above is an absolute measure of dispersion. The corresponding relative measure is known as the coefficient of variation. It is used in such problems where we want to compare the variability of two or more than two series. The series for which the coefficient of variation is greater is said to be more variable or conversely less consistent, less stable or less homogeneous and vice versa. In this study coefficient of variation is used to analyze the variance of average key variables. The formula used for determining the coefficient of variation is as follows:

$$C.V = \frac{s}{\bar{X}}$$

### **3.6 Data Analysis**

The collected data is categorized, tabulated, processed and analyzed different methods. Data are analyzed in comparison. To make the data more readable figures and charts are also used.

## **CHAPTER IV**

### **PRESENTATION AND ANALYSIS OF DATA**

#### **4.1 Analysis of Ratios**

An arithmetic relation between two figures is ratio. In other words the relationship between two accounting figures expressed in mathematical term is known as financial ratio. Ratio is always computed by dividing one item of relationship with the other. In other words ratio simply means one number expressed in terms of another.

Ratio analysis is a technique of analysis and interpretation of financial statement. To evaluate the performance of an organization by creating the ratios from the figures of different accounts included in the balance sheet and income statement is known as ratio analysis. It is very helpful for decision making. It is on the basis of information provided by the ratio analysis with the help of financial statement helps in decision making on any financial activity.

In this chapter, important financial ratios are analyzed to compare the asset management practice of Everest Bank Limited and Nepal SBI Bank Limited. On that basis the conclusion and recommendation will be drawn.

#### **4.2 Gross Loans & Advances**

Gross Loans & Advances is the total amount of loans and advances outstanding including bills purchase.

**Table No 4.1**

**Gross Loans and Advances of EBL & NSBL**

(Amount Rs in lacs)

| Year            | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D    | CV     |
|-----------------|---------|---------|---------|---------|---------|---------|--------|--------|
| <b>EBL</b>      | 140,827 | 188,364 | 244,696 | 281,564 | 316,618 | 234,414 | 63,191 | 26.96% |
| <b>Growth %</b> | 38.93%  | 33.76%  | 29.91%  | 15.07%  | 12.45%  | 26.02%  | 10.45% | 40.15% |
| <b>NSBL</b>     | 100,650 | 127,462 | 156,120 | 179,636 | 217,187 | 156,211 | 40,448 | 25.89% |
| <b>Growth %</b> | 22.13%  | 26.64%  | 22.48%  | 15.06%  | 20.90%  | 21.44%  | 3.73%  | 17.39% |

Source: Annual reports FY 2006/07 to 2010/11

**Figure 4.1**

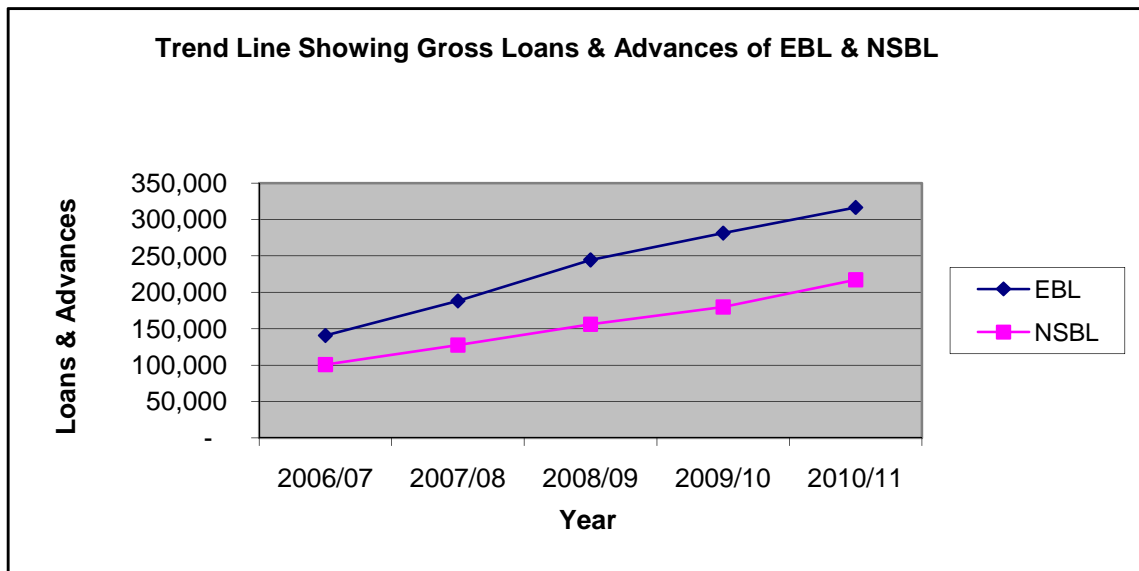


Table 4.1 and Figure 4.1 show the gross amount of loans & advances of two banks on respective years. The above table shows that loans & advances of both banks are growing in volume. However, the growth rate of EBL during the study period is observed negative despite of growth on its loans and advances by amount. NSBL is growing at increasing loans and advances volume however the growth rate of NSBL was decreased in the year

2008/09 and 2009/10. Average growth rate of EBL during the study period is 26.02% and that of NSBL is 21.44%. The average growth rate of EBL is higher than average growth rate of NSBL. The gross loans and advances of EBL in every year is higher than that of NSBL which is mainly due to aggressive lending strategy of EBL. The same is presented in the following table of loans & advances, no of branches and business per branch table:

**Table No 4.2**

**Loans & Advances, No of branches and business per branch**

(Amount Rs in lacs)

| Year    | EBL              |                |                | NSBL             |                |                |
|---------|------------------|----------------|----------------|------------------|----------------|----------------|
|         | Loans & Advances | No of branches | L&A per branch | Loans & Advances | No of branches | L&A per branch |
| 2006/07 | 140,827          | 21             | 6,706.05       | 100,650          | 15             | 6,701.00       |
| 2007/08 | 188,364          | 26             | 7,244.77       | 127,462          | 15             | 8,497.47       |
| 2008/09 | 244,696          | 32             | 7,646.75       | 156,120          | 32             | 4,878.75       |
| 2009/10 | 281,564          | 37             | 7,609.84       | 179,636          | 43             | 4,177.58       |
| 2010/11 | 316,618          | 43             | 7,363.21       | 217,187          | 50             | 4,343.72       |

*Source: Annual reports FY 2006/07 to 2010/11*

Table 4.2 clearly shows the growth of L&A figures of EBL is attributed to the consistent branch expansion by the bank. The growth of L&A of NSBL has declined after year 2008/09 due to the consistent growth on L&A over rapid growth on branch expansion. NSBL has expanded its branch network rapidly in the year 2008/09 to 2010/11. The table clearly shows that NSBL focused on branch expansion. Otherwise, per branch business of NSBL is consistently higher than EBL.

**4.3 Percentage of Non Performing Assets (NPA) to Total Loans & Advances**

The following table (Table No 4.3) shows the NPA percentage of both banks for past five years.

**Table No 4.3**

**NPA percentage of EBL & NSBL**

| <b>Year</b> | <b>2006/07</b> | <b>2007/08</b> | <b>2008/09</b> | <b>2009/10</b> | <b>2010/11</b> | <b>Average</b> | <b>S.D.</b> | <b>C.V.</b> |
|-------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|
| <b>EBL</b>  | 0.80%          | 0.68%          | 0.48%          | 0.16%          | 0.30%          | 0.48%          | 0.24%       | 49.17%      |
| <b>NSBL</b> | 4.56%          | 3.83%          | 2.02%          | 1.48%          | 0.46%          | 2.47%          | 1.51%       | 61.30%      |

*Source: Annual reports FY 2006/07 to 2010/11*

Table 4.3 shows that the NPA as a percentage of total credit of both banks is decreasing despite of increase in the year 2010/11 of EBL. The NPA figures of EBL is always and far lower than that of NSBL. Average NPA % of EBL during study period is 0.48% which is far lower than that of NSBL having 2.47%. During study period variability of NPA% of NSBL is higher than EBL shown by CV of 49.17% against 61.30% of EBL. NSBL has made considerable recovery during the study period. This decrease of NPA % can be attributable to various factors, actual recovery or the just increase of L&A figures. The following table (Table 4.4) showing NPA amount in Rs, growth percentage of NPA and growth percentage of L&A sheds some light on it.

**Table No 4.4**

**Absolute amount of NPA, NPA growth percentage and L&A Growth percentage**

(Amount Rs in lacs)

|                | EBL       |                 |                 | NSBL      |                 |                 |
|----------------|-----------|-----------------|-----------------|-----------|-----------------|-----------------|
|                | NPA in Rs | Growth % of NPA | Growth % of L&A | NPA in Rs | Growth % of NPA | Growth % of L&A |
| <b>2006/07</b> | 1,131     | -12.46%         | 38.93%          | 4,588     | -9.22%          | 22.13%          |
| <b>2007/08</b> | 1,273     | 12.56%          | 33.76%          | 4,884     | 6.46%           | 26.64%          |
| <b>2008/09</b> | 1,180     | -7.31%          | 28.31%          | 3,159     | -35.32%         | 22.29%          |
| <b>2009/10</b> | 4,37      | -62.97%         | 38.93%          | 2,651     | -16.08%         | 22.13%          |
| <b>2010/11</b> | 941       | 115.33%         | 33.76%          | 993       | -62.54%         | 26.64%          |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.2**

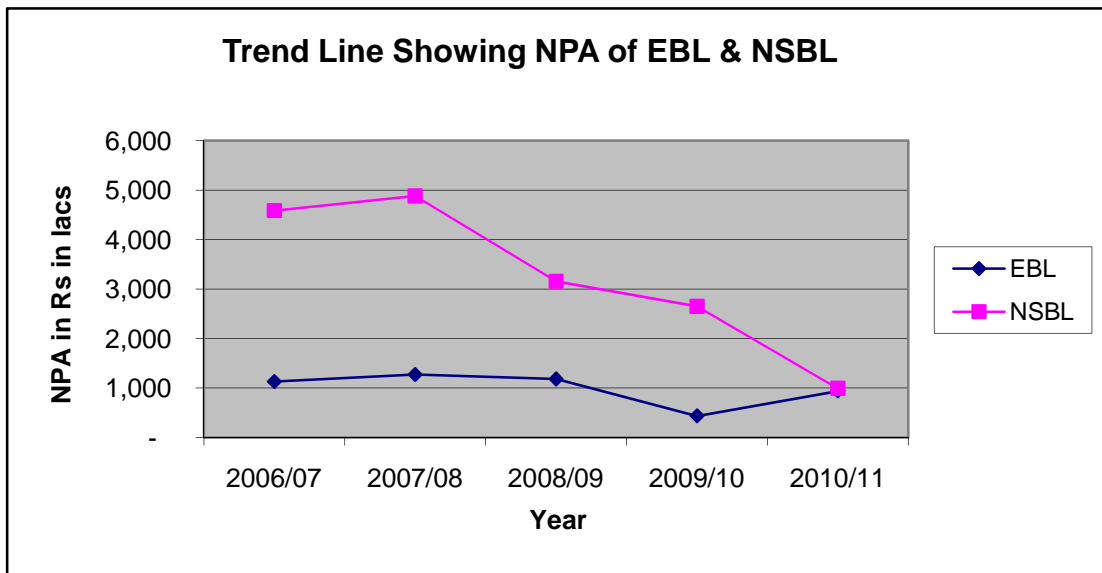


Table 4.4 shows better NPA recovery of both banks. There is only marginal amount of NPA growth compared to the growth in L&A. Exception being the year 2007/08. In this year NPA of both banks has increased significantly. In the year NPA of EBL has grown by 12.56% where total credit grew by 33.76%. For NSBL, NPA has grown by 6.46% where total credit has grown 26.64%. The NPA of EBL has also increased in the year 2010/11 by 115.33% with the increase in NPR by NPR 504 Lakhs. All other years are highly satisfactory for the both banks. EBL has reduced its NPA by 12.46%, 7.31% and 62.97% respectively in the year 2006/07, 2008/09 and 2009/10. Similarly, NSBL has reduced its NPR by 9.22%, 35.32%, 16.08% and 62.54% respectively in the year 2006/07, 2008/09, 2009/10 and 2010/11.

#### **4.3.1 Composition of NPA**

Composition of NPA constitutes the breakdown of NPA figures into Substandard, Doubtful and Loss. As some banks deliberately hide their NPA showing it in rescheduled/restructured heading. Though this figure do not formally fall in NPA, they are past NPAs and also have tendency to fall back in NPA so considering the figures may be helpful to see clear picture of NPA.

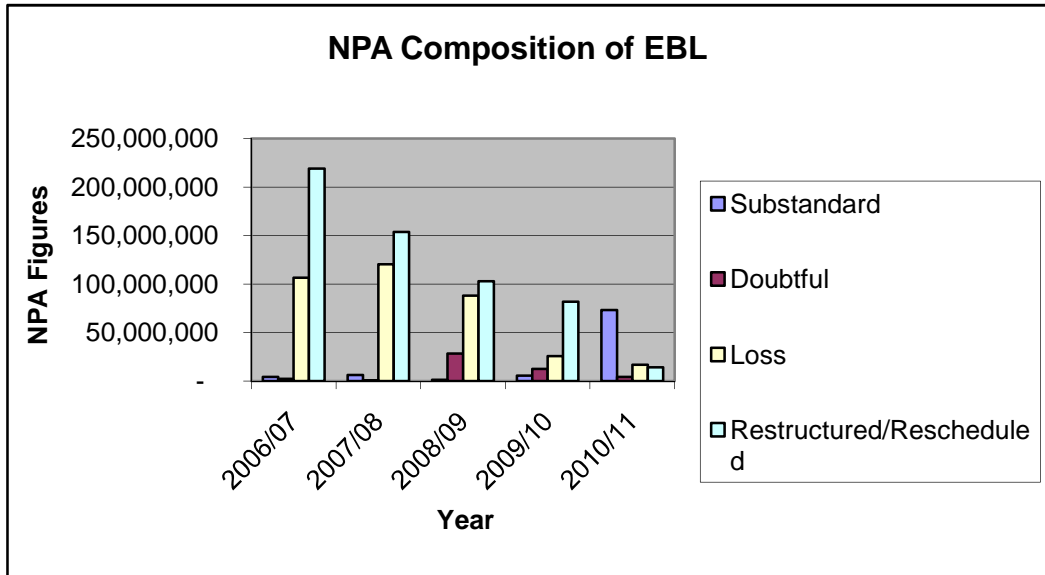
**Table No 4.5****Composition of NPA and rescheduled/restructured Loans of EBL**

(Amount Rs in lacs)

|                | <b>Substandard</b>     | <b>Doubtful</b>        | <b>Loss</b>             | <b>Restructured/<br/>Rescheduled</b> |
|----------------|------------------------|------------------------|-------------------------|--------------------------------------|
| <b>2006/07</b> | 4,218,482<br>(3.73%)   | 2,353,289<br>(2.08%)   | 106,607,165<br>(94.19%) | 218,884,136<br>(193.40%)             |
| <b>2007/08</b> | 6,306,745<br>(4.95%)   | 745,926<br>(0.59%)     | 120,257,697<br>(94.46%) | 153,852,318<br>(120.85%)             |
| <b>2008/09</b> | 1,360,792<br>(1.15%)   | 28,514,320<br>(24.17%) | 88,110,120<br>(74.68%)  | 102,979,710<br>(87.28%)              |
| <b>2009/10</b> | 5,469,421<br>(12.51%)  | 12,633,778<br>(28.91%) | 25,602,782<br>(58.58%)  | 81,854,490<br>(187.28%)              |
| <b>2010/11</b> | 73,101,208<br>(77.61%) | 4,176,681<br>(4.43%)   | 16,915,780<br>(17.96%)  | 14,207,894<br>(15.08%)               |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.3**



**Table No 4.6**

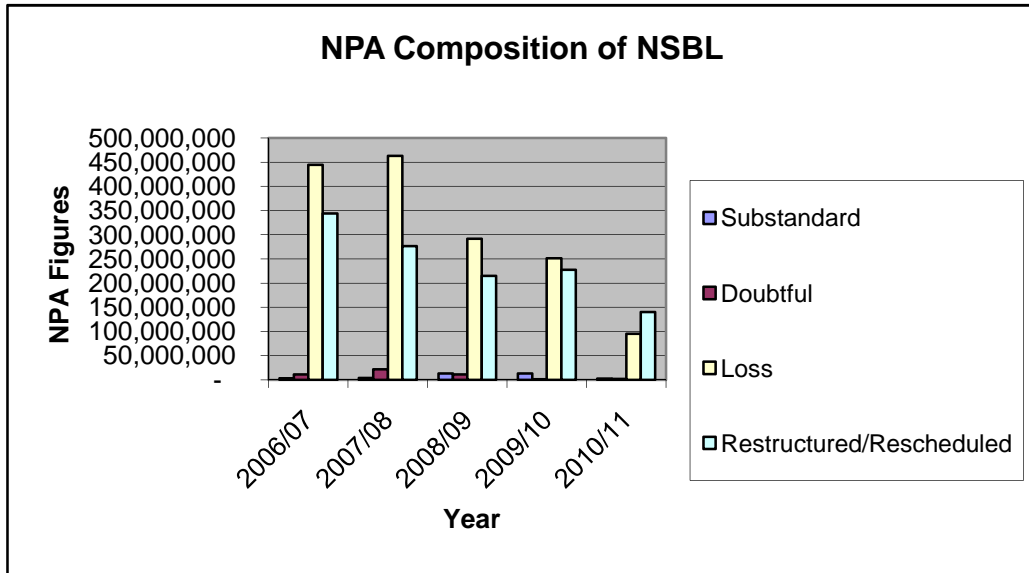
**Composition of NPA and rescheduled/restructured Loans of NSBL**

(Amount Rs in lacs)

|                | <b>Substandard</b>    | <b>Doubtful</b>       | <b>Loss</b>             | <b>Restructured/<br/>Rescheduled</b> |
|----------------|-----------------------|-----------------------|-------------------------|--------------------------------------|
| <b>2006/07</b> | 3,284,812<br>(0.72%)  | 11,167,991<br>(2.43%) | 444,302,938<br>(96.85%) | 343,624,701<br>(74.90%)              |
| <b>2007/08</b> | 3,874,789<br>(0.79%)  | 21,626,680<br>(4.43%) | 462,908,600<br>(94.78%) | 276,747,296<br>(56.66%)              |
| <b>2008/09</b> | 13,235,686<br>(4.19%) | 113,38,722<br>(3.59%) | 291,380,357<br>(92.22%) | 214,926,217<br>(68.02%)              |
| <b>2009/10</b> | 12,975,351<br>(4.89%) | 1,113,939<br>(0.42%)  | 251,044,459<br>(94.69%) | 227,484,241<br>(85.80%)              |
| <b>2010/11</b> | 2,396,087<br>(2.41%)  | 1,799,948<br>(1.81%)  | 95,158,571<br>(95.78%)  | 139,944,580<br>(140.85%)             |

Source: Annual reports FY 2006/07 to 2010/11

**Figure 4.4**



EBL has reduced its higher NPA in loss category transferring it to substandard and doubtful category. Similarly NSBL has higher NPA in bad category with the reduction in volume of NPA yearly. Also, there is considerable amount of Restructured/Rescheduled loan in proportion of total NPA.

#### **Credit Deposit Ratio (C/D ratio)**

This ratio shows the utilization of the available resources. The deposit is the resource of the bank and Credit is the product. So how much percentage of total resource is being utilized as earning asset. Low ratio denote banks inability of invest and higher ratio may cause liquidity and insolvency problem and lower the ratio the bank is in better position in terms of liquidity. There is trade-off between earning, liquidity and readiness for coming opportunity. A ratio of 70% to 80% is considered healthy.

**Table No 4.7**

**Credit Deposit (C/D) Ratio of EBL & NSBL**

| Year | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D.   | C.V.   |
|------|---------|---------|---------|---------|---------|---------|--------|--------|
| EBL  | 77.40%  | 78.60%  | 73.43%  | 76.24%  | 76.98%  | 76.53%  | 1.37%  | 2.26%  |
| NSBL | 87.94%  | 92.93%  | 55.84%  | 51.48%  | 51.20%  | 67.88%  | 18.56% | 27.34% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.5**

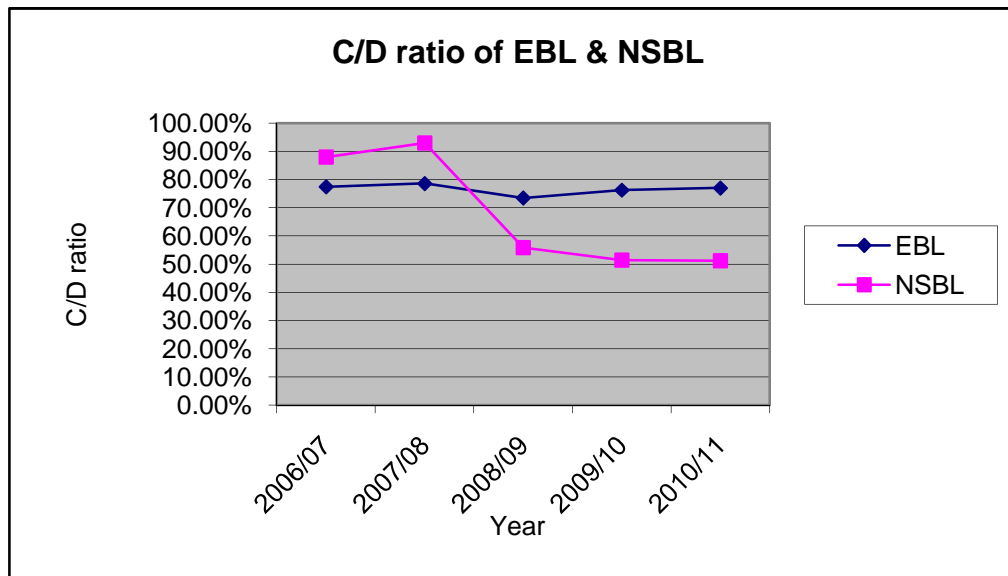


Table 4.7 shows that C/D ratio of EBL is in increasing trend. The C/D ratio of NSBL is in decreasing trend. NSBL seems to be in comparatively easier position in terms of liquidity with the ratio hovering around 65-70%. During the study period average CD ratio of EBL is 76.53% with standard deviation of 1.37% and coefficient of variation of 2.26%, the same of NSBL respectively being 67.88%, 18.56% and 27.34%. NSBL is in comfort position in terms of liquidity. It also has high variability as shown by higher CV during the study period. EBL may be in tight position in terms of liquidity. It should focus more on increasing deposit base. In fact, bank has taken action on it. It has opened rural branches at focusing the deposit business.

#### 4.4 Investment Deposit Ratio (I/D ratio)

This ratio shows the investment in liquid assets like government securities and other corporate shares out of total deposit. Higher ratio is better in terms of liquidity but also shows banks inability to invest in profitable sector. Investment is done to maintain liquidity and also to earn some return on it.

**Table No 4.8**

#### Investment Deposit (I/D) Ratio of EBL & NSBL

| Year        | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average       | S.D.          | C.V.          |
|-------------|---------|---------|---------|---------|---------|---------------|---------------|---------------|
| <b>EBL</b>  | 27.41%  | 21.11%  | 17.85%  | 13.56%  | 18.83%  | <b>19.75%</b> | <b>4.55%</b>  | <b>23.01%</b> |
| <b>NSBL</b> | 23.24%  | 22.52%  | 47.52%  | 46.73%  | 44.58%  | <b>36.92%</b> | <b>11.50%</b> | <b>31.16%</b> |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.6**

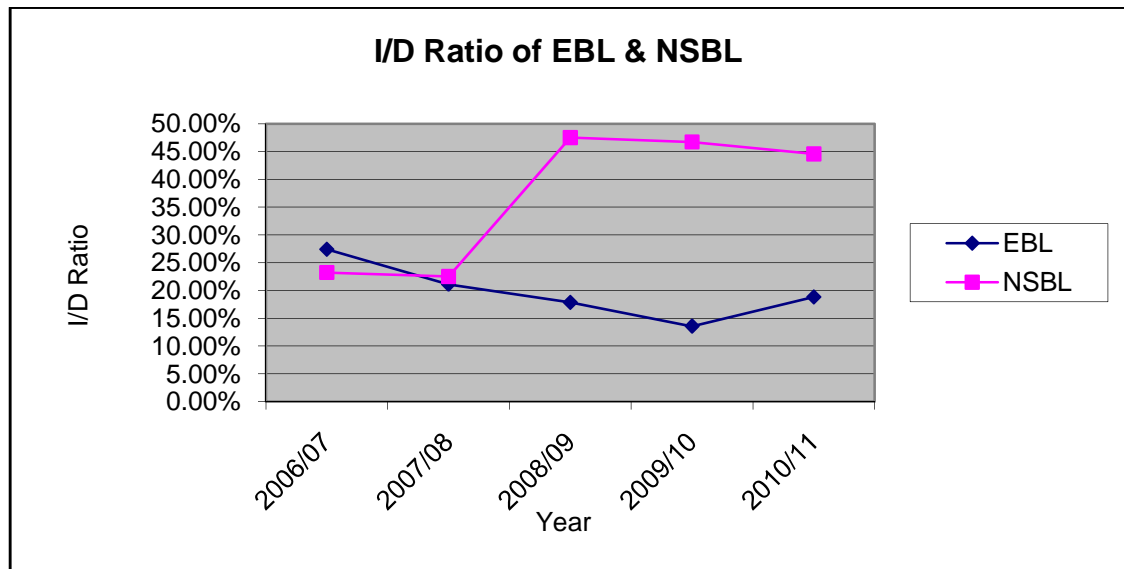


Table 4.8 shows that I/D ratio of both banks are hovering around 20-50%. During the study period average I/D ratio of EBL is 19.75% with standard deviation of 4.55% and coefficient of variation of 23.01%, the same of NSBL respectively being 36.92%, 11.50% and 31.16%. The average ratio NSBL is slightly higher during the study period.

## 4.5 Yield on Advances

Yield on Advances is average rate of return earned on Loans & Advances. Higher ratio means investment in profitable sector and results higher profit. Banks should try to increase this ratio.

**Table No 4.9**

### Yield on Advances of EBL & NSBL

| Year        | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D.  | C.V.   |
|-------------|---------|---------|---------|---------|---------|---------|-------|--------|
| <b>EBL</b>  | 6.87%   | 7.06%   | 7.57%   | 9.95%   | 12.22%  | 8.73%   | 2.06% | 23.61% |
| <b>NSBL</b> | 7.01%   | 6.75%   | 7.56%   | 9.80%   | 11.24%  | 8.47%   | 1.75% | 20.69% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.7**

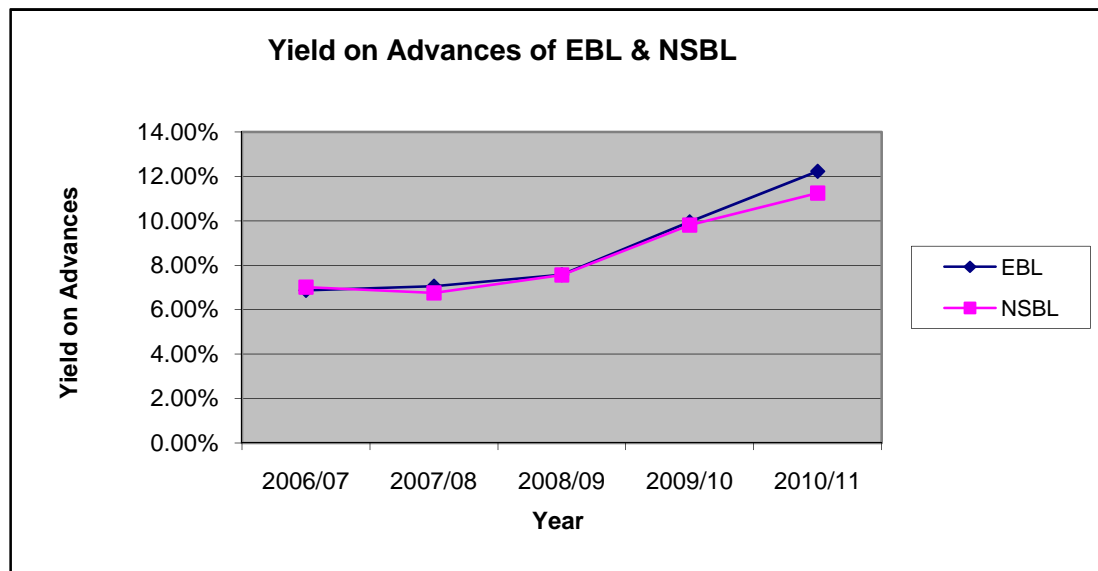


Table 4.9 clearly shows that YOA of both banks are in increasing trend. This is in tune with the increasing interest rate over the period. YOA of EBL is consistently higher than that of NSBL. Only in the year 2006/07 yield of NSBL is higher than EBL. However, EBL has recovered on year 07/08 and YOA increased from 6.87% to 7.06%. Average

YOA of EBL during study period is 8.73% and that of NSBL is 8.47%. EBL has higher variability in YOA shown by 23.61% CV against 20.69% of NSBL.

This may be that EBL has more focus on retail lending (personal & small sized) lending than that of NSBL where there is higher interest rate. On contradictory NSBL has higher chunk of corporate lending where the yield is lower. But this lower yield is offset by lower operating expenses to manage assets.

#### **4.6 Yield on Investment**

Yield on Investment is average rate of return earned on Investment. Higher ratio means investment in profitable sector and results higher profit. Banks should try to increase this ratio.

**Table No 4.10**

#### **Yield on Investment of EBL & NSBL**

| <b>Year</b> | <b>2006/07</b> | <b>2007/08</b> | <b>2008/09</b> | <b>2009/10</b> | <b>2010/11</b> | <b>Average</b> | <b>S.D.</b> | <b>C.V.</b> |
|-------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|
| <b>EBL</b>  | 2.69%          | 3.95%          | 5.34%          | 5.57%          | 5.75%          | 4.66%          | 1.17%       | 25.14%      |
| <b>NSBL</b> | 4.12%          | 3.02%          | 0.97%          | 1.29%          | 2.10%          | 2.30%          | 2.30%       | 50.18%      |

*Source: Annual reports FY 2006/07 to 2010/11*

Average Yield on Investment of EBL during the study period of 4.66% with standard deviation of 1.17% and coefficient of variation of 25.14%. NSBL has average of 2.30%, with standard deviation of 2.30% and CV of 50.18%. Yield of EBL is higher than NSBL and it also has low variability.

#### **4.7 Average Spread**

Average Spread is weighed average on interest received on Loans & Advances and interest to be paid on deposit. It is the gross margin for banks. It is this margin which covers all the expenses of the banks. Higher the ratio better and position of the bank and shows better fund management of the bank.

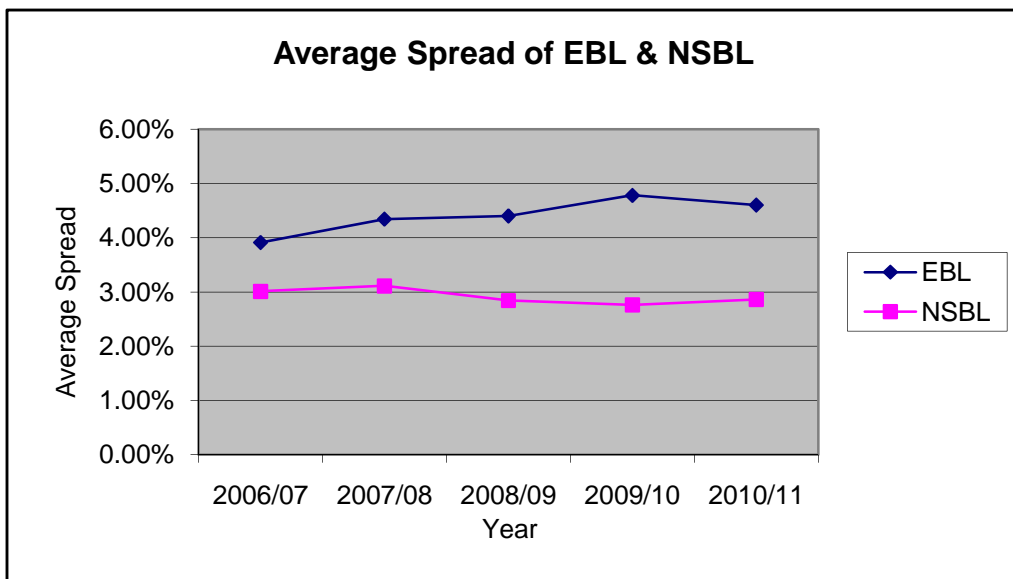
**Table No 4.11**

**Average Spread of EBL & NSBL**

| Year        | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D.  | C.V.  |
|-------------|---------|---------|---------|---------|---------|---------|-------|-------|
| <b>EBL</b>  | 3.91%   | 4.34%   | 4.40%   | 4.78%   | 4.60%   | 4.41%   | 0.29% | 6.64% |
| <b>NSBL</b> | 3.01%   | 3.11%   | 2.84%   | 2.76%   | 2.86%   | 2.92%   | 0.13% | 4.33% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.8**



Spread of EBL is consistently higher than NSBL. During the study period average spread of EBL is 4.41% and that of NSBL is 2.92%, a far lower figure. This is both due to higher yield on advances and lower cost of deposit of EBL. This shows the better fund management by EBL. EBL also has lower variability of spread compared to NSBL.

#### **4.8 Operating Expenses to Total Assets**

This ratio shows the efficiency of the firm. It is the amount of operating expenses required to manage a rupee of Assets. Lower the ratio higher the efficiency of the bank.

**Table No 4.12**

**Operating Expenses to Total Assets of EBL & NSBL**

|             | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D.  | C.V.  |
|-------------|---------|---------|---------|---------|---------|---------|-------|-------|
| <b>EBL</b>  | 1.23%   | 1.44%   | 1.30%   | 1.40%   | 1.46%   | 1.37%   | 0.09% | 6.41% |
| <b>NSBL</b> | 1.25%   | 1.32%   | 1.15%   | 1.25%   | 1.52%   | 1.30%   | 0.12% | 9.52% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.9**

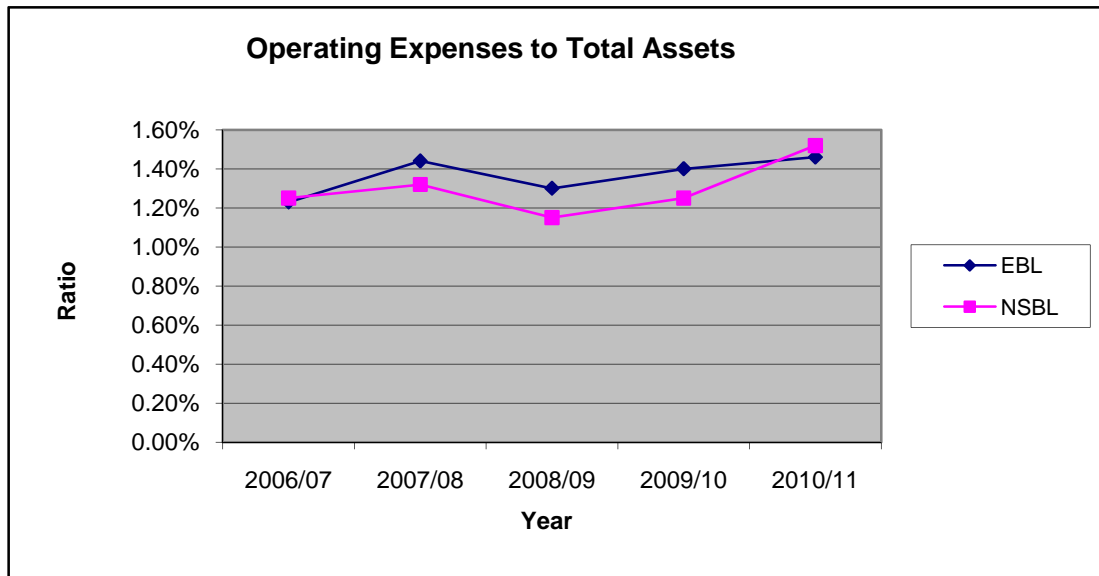


Table 4.12 clearly shows that NSBL is consistently efficient in this front than EBL. Average of EBL is 1.37% and of NSBL is 1.30%, showing higher efficiency of NSBL. NSBL has higher variability shown by CV of 9.52% against 6.41% of EBL during the study period.

**4.9 Employee Expenses to Total Assets**

This ratio shows the efficiency of employees the firm. It is the amount of employee expenses required to manage a rupee of Assets. Lower the ratio higher the efficiency of the bank or this also may be lower payment by bank to its staff members.

**Table No 4.13**

**Employee Expenses to Total Assets of EBL & NSBL**

|             | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D.  | C.V.   |
|-------------|---------|---------|---------|---------|---------|---------|-------|--------|
| <b>EBL</b>  | 0.40%   | 0.58%   | 0.51%   | 0.55%   | 0.63%   | 0.53%   | 0.08% | 14.67% |
| <b>NSBL</b> | 0.38%   | 0.44%   | 0.40%   | 0.34%   | 0.55%   | 0.42%   | 0.07% | 16.95% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.10**

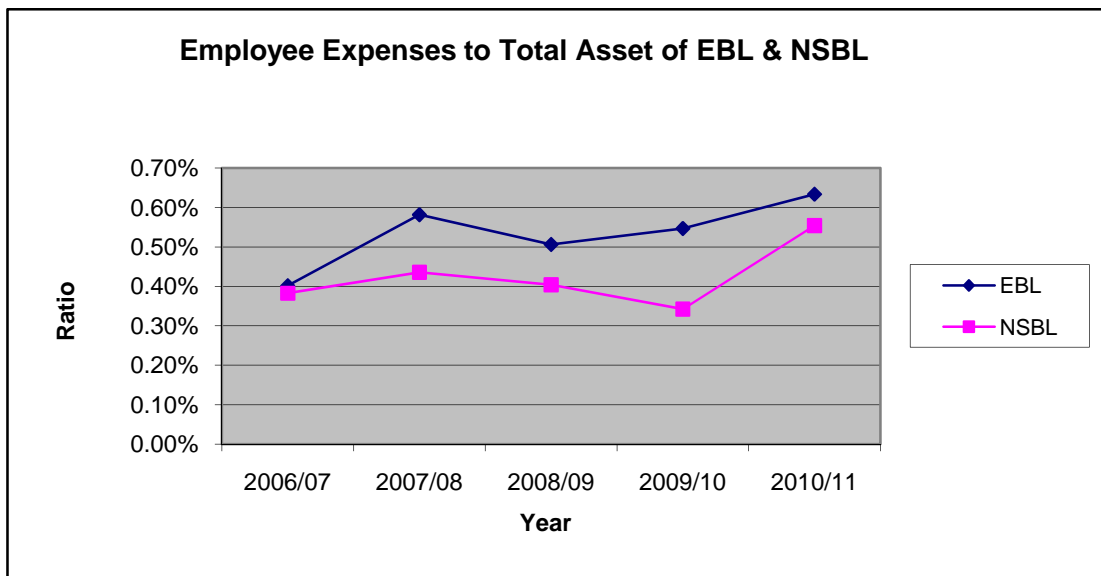


Table 4.13 clearly shows that NSBL is consistently efficient in this front than EBL. The ratio is in increasing trend from 2006/07. However, the increasing trend of EBL is comparatively higher than that of NSBL. Average of EBL during the study period is 0.53% with standard deviation of 0.08% and CV of 14.67% same of NSBL respectively being 0.42%, 0.07% and 16.95%. NSBL has higher efficiency. The higher efficiency may be due to higher efficiency of employees or lower payment by the bank. This will be clear by Expenses per employee.

**4.10 Expenses per employee**

This ratio shows the average remuneration paid to each employee in a year by the bank.

**Table No 4.14**

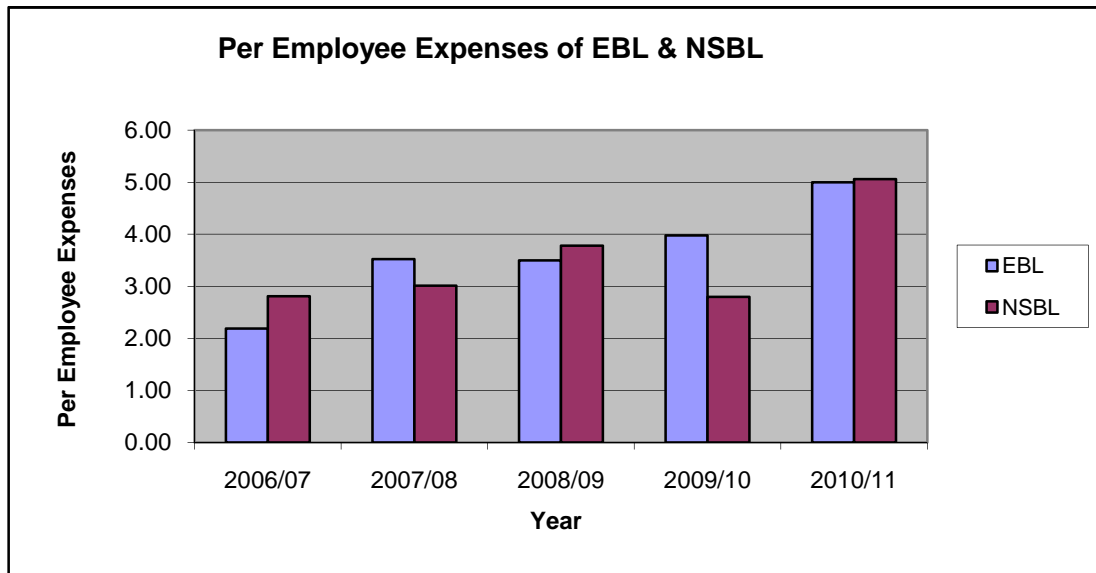
**Expenses per employee of EBL & NSBL**

(Amount Rs in lacs)

|             | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D. | C.V.   |
|-------------|---------|---------|---------|---------|---------|---------|------|--------|
| <b>EBL</b>  | 2.19    | 3.52    | 3.50    | 3.98    | 5.00    | 3.64    | 0.91 | 24.90% |
| <b>NSBL</b> | 2.81    | 3.01    | 3.78    | 2.80    | 5.06    | 3.49    | 0.86 | 24.69% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.11**



The table 4.14 shows that expenses per employee of NSBL in 2006/07 was higher than that of EBL. But after 2006/07, NSBL has made remarkable work on managing employee expenses which is lower than EBL. The employee expenses of both the banks is in increasing trend. This ratio confirms that employees of NSBL are deployed efficiently than that of EBL. Average payment to employees of EBL during the study period is Rs 3.64 lacs with standard deviation of Rs 0.91 lacs and CV of 24.90%. NSBL has average payment of Rs 3.49 lacs, with standard deviation of Rs 0.86 lacs and CV of Rs 24.69%. Average payment of NSBL is higher with low variability.

#### 4.11 Per employee Business

This ratio shows business (Loans & Advances + Deposit) made by an employee and measures the efficiency of employees.

**Table No 4.15**

#### Per employee Business of EBL & NSBL

(Amount Rs in lacs)

| Year            | 2006/07  | 2007/08  | 2008/09  | 2009/10  | 2010/11  | Average  | S.D.    | C.V.    |
|-----------------|----------|----------|----------|----------|----------|----------|---------|---------|
| <b>EBL</b>      | 821.09   | 953.51   | 1,082.25 | 1,145.92 | 1,242.14 | 1,048.98 | 147.56  | 14.07%  |
| <b>Growth %</b> | 4.96%    | 16.13%   | 13.50%   | 5.88%    | 8.40%    | 9.77%    | 4.35%   | 44.47%  |
| <b>NSBL</b>     | 1,138.11 | 1,062.71 | 1,348.89 | 1,136.77 | 1,269.98 | 1,191.29 | 103.31  | 8.67%   |
| <b>Growth %</b> | 2.91%    | -6.62%   | 26.93%   | -15.73%  | 11.72%   | 3.84%    | 115.71% | 188.28% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.12**

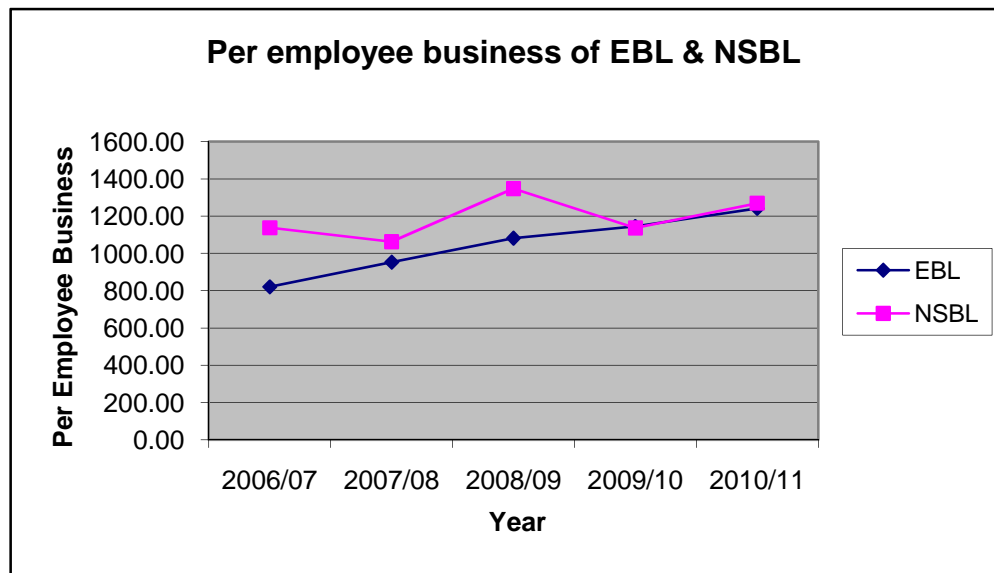


Table 4.15 shows that per employee business of EBL is increasing and the per employee business of NSBL is fluctuating which was decreased in 2007/08 and 2009/10. EBL is consistently better than NSBL in this front. Considering the average per employee

business, NSBL is far better than EBL due to the less number of employees with respect to the total business. Average business per employee during the study period of EBL is Rs 1,048.98 lacs and that of NSBL is Rs 1,191.29 lacs. However, ratio of EBL is increasing at higher rate. Average growth rate of EBL during study period is 9.77% and that of NSBL is 3.84% only.

#### **4.12 Net Interest Income to Total Operating Income**

This ratio shows the dependence of banks on interest income to generate total income. Interest income is generated from the fund based facility, hence more risky. Lower the ratio safer is the bank. Lowering this ratio also means banks are relying more on other incomes like remittance, agency and treasury income. This also shows the modernization of banks. Modern banks rely less and less on traditional Interest Income and more and more on other incomes like commission.

**Table No 4.16**

#### **Net Interest Income to Total Operating Income of EBL & NSBL**

| <b>Year</b> | <b>2006/07</b> | <b>2007/08</b> | <b>2008/09</b> | <b>2009/10</b> | <b>2010/11</b> | <b>Average</b> | <b>S.D.</b> | <b>C.V.</b> |
|-------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-------------|
| <b>EBL</b>  | 74.55%         | 75.71%         | 75.99%         | 79.34%         | 81.87%         | 77.49%         | 2.71%       | 3.49%       |
| <b>NSBL</b> | 78.50%         | 80.80%         | 76.73%         | 74.63%         | 70.95%         | 76.32%         | 3.37%       | 4.41%       |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.13**

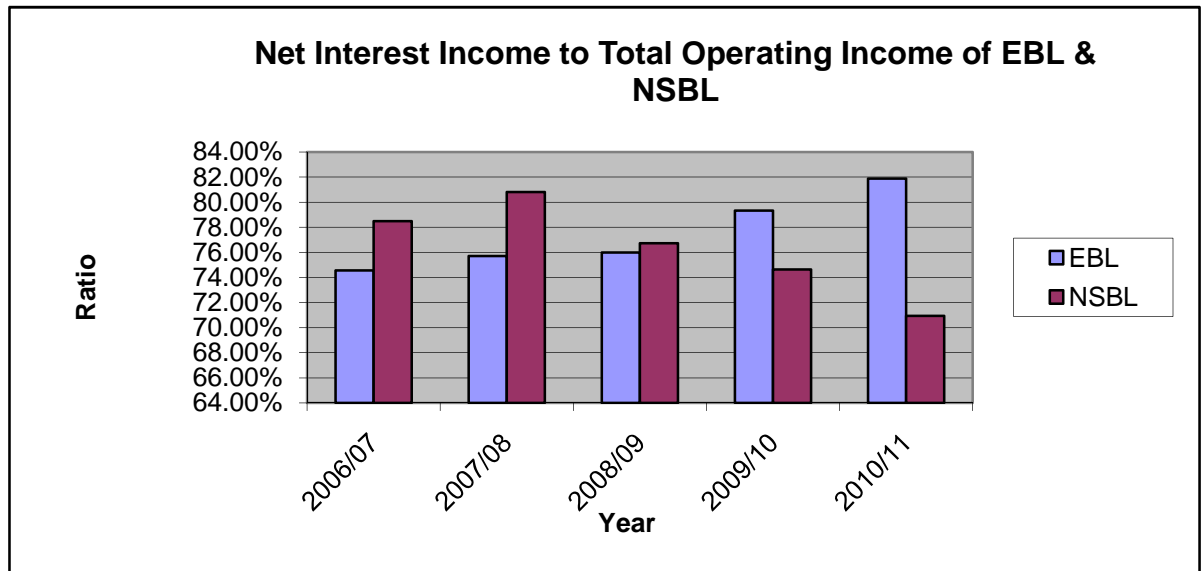


Table 4.16 shows that the reliance of EBL on Net Interest is nearly constant hovering around 74% to 81%. However, the ratio is in increasing trend for EBL which is in increasing trend. This shows that the EBL's total income is more reliance on fund based income than the fee based income. NSBL has the downward ratio after the year 2007/08 which means that the composition of NSBL's total income has comparatively lower reliance on fee based income and more reliance on fee based income. During the study period average ratio of NSBL is 76.32% against 77.49% of EBL, it also has high volatility shown by CV during the study period 4.41% of NSBL against 3.49% of EBL during the period.

#### **4.13 Fixed Assets to Total Loans and Advances**

Fixed assets are required for smooth operation for business, however, these are non earning assets. They are required to enhance efficiency of operation.

**Table No 4.17**

**Fixed Assets to Total Loans & Advances of EBL & NSBL**

| Year        | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Average | S.D.  | C.V.   |
|-------------|---------|---------|---------|---------|---------|---------|-------|--------|
| <b>EBL</b>  | 1.21%   | 1.91%   | 1.75%   | 1.64%   | 1.45%   | 1.59%   | 0.24% | 15.24% |
| <b>NSBL</b> | 0.97%   | 0.94%   | 1.62%   | 2.32%   | 1.92%   | 1.55%   | 0.54% | 34.57% |

*Source: Annual reports FY 2006/07 to 2010/11*

**Figure 4.14**

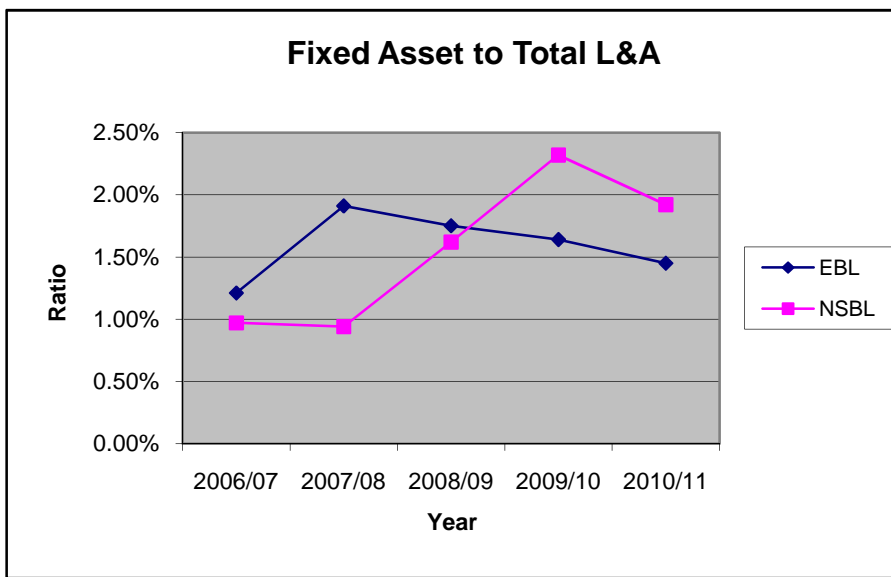


Table 4.17 shows that in this front also NSBL is more efficient than EBL. The average ratio of EBL during the study period is 1.59% and of NSBL is 1.55% showing that NSBL is efficiently deploying its fixed assets. CV of EBL is 15.24% and of NSBL is 34.57% showing higher variability on NSBL part.

#### **4.14 Capital Adequacy**

This denotes the risk management and risk absorbing capacity of the bank. There must be enough equity capital with the bank to take the risky ventures, this equity capital acts as cushion to absorb loss before it passes on to the deposit holders. These measures also affect the profitability of the banks, which induces banks to invest in less risky ventures.

Banks must maintain capital fund on the basis of amount of assets held and riskiness of the assets held. They must maintain certain percentage of capital fund of the total risk weighted exposure. Risk weight is assigned according to the riskiness of the exposure. For example risk weight of loan against residential property is lower than risk weight against commercial property. So with the same amount of capital banks can lend lower amount against commercial property vis-à-vis against residential property.

Nepalese banks have started adopting the norms of from 2008/09. In order to ensure a smooth transition to new approach prescribed by this framework, a parallel run for the whole year from Mid July 2007 (Fiscal Year 2064/065) was conducted. The returns submitted by the banks during this period were minutely reviewed by NRB to identify any anomalies. The identified shortcoming on the returns was advised to the bank management so that they could be rectified before we move onto full fledged implementation. Based on the findings of the parallel run, amendments and modifications have been incorporated in the framework wherever deemed necessary. However, there was no penalty for not meeting norms of Basel II during FY 2007/08.

**Table No 4.18**

**Capital Adequacy of EBL & NSBL**

|                | EBL          |                       |              | NSBL         |                       |              |
|----------------|--------------|-----------------------|--------------|--------------|-----------------------|--------------|
|                | Core Capital | Supplementary Capital | Capital Fund | Core Capital | Supplementary Capital | Capital Fund |
| <b>2006/07</b> | 7.80%        | 3.40%                 | 11.20%       | 10.53%       | 2.76%                 | 13.29%       |
| <b>2007/08</b> | 9.04%        | 2.40%                 | 11.44%       | 9.97%        | 2.35%                 | 12.32%       |
| <b>2008/09</b> | 8.52%        | 2.82%                 | 11.34%       | 10.03%       | 1.89%                 | 11.92%       |
| <b>2009/10</b> | 8.39%        | 2.38%                 | 10.77%       | 10.89%       | 1.36%                 | 12.25%       |
| <b>2010/11</b> | 8.46%        | 1.96%                 | 10.42%       | 10.32%       | 1.20%                 | 11.52%       |

*Source: Annual reports FY 2006/07 to 2010/11*

Table 4.18 shows the capital adequacy position of both banks as per BASEL II capital adequacy norms. As per the norms core capital should be 6% of total risk weighted assets and Capital Fund should be not less than 10 % of total risk weighted assets. The above table shows that both banks meet the regulatory requirement. NSBL is more comfortable on capital adequacy on recent years.

**4.14.1 Capital Adequacy as per Basel II norms**

Basel II capital adequacy norms were implemented in Nepal from FY 2007/08, with parallel run. The same was implemented fully from FY 2008/09. The following table shows capital adequacy position of EBL and NSBL for FY 2007/08 as per Basel II norms.

**Table No 4.19**

**Capital Adequacy of EBL & NSBL as per Basel II norms for FY 2010/11**

Amount Rs in lacs

|                               | EBL        |            | NSBL       |            |
|-------------------------------|------------|------------|------------|------------|
|                               | Amount     | Percentage | Amount     | Percentage |
| <b>Tier I Capital</b>         | 29,271.00  | 7.44%      | 28,341.00  | 10.42%     |
| <b>Tier II Capital</b>        | 6,786.00   | 2.00%      | 3,292.00   | 1.21%      |
| <b>Capital Fund</b>           | 36,057.00  | 10.63%     | 31,633.00  | 11.63%     |
| <b>Risk Weighted Exposure</b> | 339,053.00 |            | 271,887.00 |            |

*Source: Annual reports FY 2010/11*

The capital required as per regulatory requirement is Tier I capital not less than 6% of total risk asset exposure and Capital Fund not less than 10% of total risk weighted exposure. Both banks have fulfilled this regulatory requirement. However, NSBL seems to be in little tight position. In future either it will have to either increase capital base or reduce risk exposure.

**4.14.2 Breakdown of risk weighted exposure**

As per Basel II norms total risk exposure is divided into three components viz Credit Risk, Market Risk and Operational Risk.

**Table No 4.20**

**Breakdown of Risk Exposure of EBL & NSBL for FY 2010/11**

(Amount Rs in Lacs)

|                                     | <b>EBL</b>        |                            | <b>NSBL</b>       |                            |
|-------------------------------------|-------------------|----------------------------|-------------------|----------------------------|
|                                     | <b>Amount</b>     | <b>% of Total Exposure</b> | <b>Amount</b>     | <b>% of Total Exposure</b> |
| <b>Credit Risk</b>                  | 314,403.00        | 92.73%                     | 252,677.00        | 92.93%                     |
| <b>Operational Risk</b>             | 23,458.00         | 6.92%                      | 11,961.00         | 4.40%                      |
| <b>Market Risk</b>                  | 1,192.00          | 0.35%                      | 7,249.00          | 2.67%                      |
| <b>Total Risk Weighted Exposure</b> | <b>339,053.00</b> |                            | <b>271,887.00</b> |                            |

*Source: Annual reports FY 2010/11*

On total risk weighted exposure both banks have higher percentage of Credit Risk (above 90%) which is normal. Both banks have approximately similar percentage of Credit Risk but EBL has lower market risk than that of the NSBL and NSBL has lower operational risk.

**4.14.3 Breakdown of Credit Risk**

As per Basel II norms Credit Risk is further subdivided into following 11 categories. As per the riskiness different risk weight is assigned to each category.

**Table No 4.21****Breakdown of Credit Risk Exposure of EBL & NSBL for FY 2010/11**

(Amount Rs in Lacs)

|  | <b>EBL</b>        | <b>% of Total Exposure</b> | <b>NSBL</b>       | <b>% of Total Exposure</b> |
|--|-------------------|----------------------------|-------------------|----------------------------|
| Claims on Government & Central Bank      | -                 | 0.00%                      | -                 | 0.00%                      |
| Claims on other official Entities        | -                 | 0.00%                      | 1,620.98          | 0.64%                      |
| Claims on Banks                          | 2,397.91          | 0.6%                       | 31,117.01         | 12.31%                     |
| Claims on corporate & securities firms   | 112,520.60        | 35.79%                     | 122,401.38        | 48.44%                     |
| Claims on regulatory retail portfolio    | 73,656.37         | 23.43%                     | 30,038.37         | 11.89%                     |
| Claims secured by residential property   | 17,386.79         | 5.53%                      | 16,239.53         | 6.43%                      |
| Claims secured by commercial real estate | 43,643.48         | 13.88%                     | 3,130.62          | 1.24%                      |
| Past due claims                          | 1,617.16          | 0.51%                      | 1,910.10          | 0.76%                      |
| High Risk Claims                         | 20,902.66         | 6.65%                      | 10,160.01         | 4.02%                      |
| Other Assets                             | 13,465.94         | 4.28%                      | 8,907.94          | 3.53%                      |
| Off Balance Sheet Items                  | 28,812.86         | 9.16%                      | 27,151.66         | 10.75%                     |
| <b>Total</b>                             | <b>314,403.77</b> | <b>100%</b>                | <b>252,677.60</b> | <b>100%</b>                |

*Source: Annual reports FY 2010/11*

Table 4.21 shows higher concentration on “Claims secured by corporate & securities firms” which seems normal for commercial banks. However, in this front NSBL seems to be ahead of EBL.

**4.15 Diversification**

Banks diversify risk various ways. They do simple diversification by spreading risk among large number of borrowers. They also diversify risk in various sectors, there is also good geographical diversification when they lend via various branches.

#### 4.15.1 Sector wise lending

Banks diversify their lending investment in various sectors. These sectors can be broadly categorized in five sectors:

- Agriculture & Mining
- Manufacturing & Construction
- Business
- Other Service
- Others

**Table No 4.22**

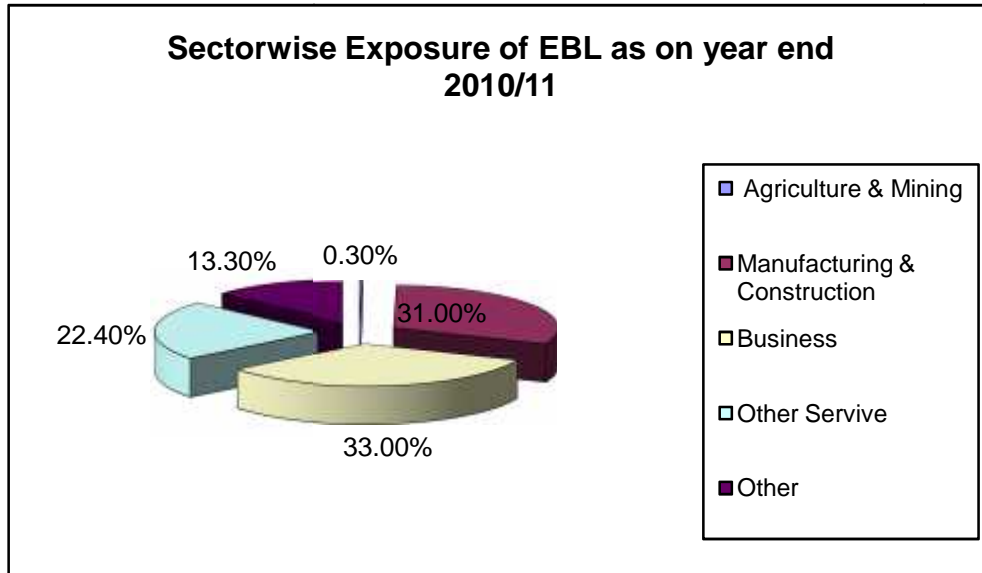
**Sector-wise exposure of EBL & NSBL as on year end 2010/11**

(Amount Rs in lacs)

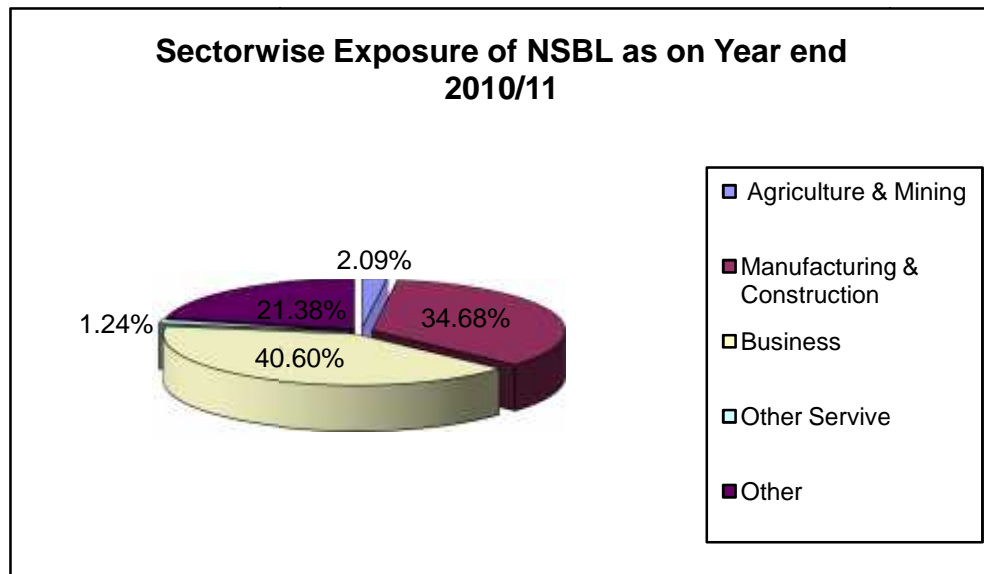
| Sectors                         | EBL               |                | NSBL              |                |
|---------------------------------|-------------------|----------------|-------------------|----------------|
|                                 | Amount            | Percentage     | Amount            | Percentage     |
| Agriculture & Mining            | 949.85            | 0.30%          | 4,538.17          | 2.09%          |
| Manufacturing &<br>Construction | 98,151.58         | 31.00%         | 75,328.33         | 34.68%         |
| Business                        | 104,483.90        | 33.00%         | 88,187.43         | 40.60%         |
| Other Services                  | 70,922.43         | 22.40%         | 2,696.30          | 1.24%          |
| Others                          | 42,110.19         | 13.30%         | 46,437.68         | 21.38%         |
| <b>Total</b>                    | <b>316,617.95</b> | <b>100.00%</b> | <b>217,187.91</b> | <b>100.00%</b> |
| <b>Average</b>                  | 63,323.59         | 20.00%         | 25,492.40         | 20.00%         |
| <b>Standard Deviation</b>       | 38,224.06         | 12.07%         | 20,521.26         | 16.22%         |
| <b>Coefficient of Variation</b> | 60.36%            | 60.36%         | 80.50%            | 81.08%         |

*Source: Annual report FY 2010/11*

**Figure 4.15**



**Figure 4.16**



EBL has more concentration on Manufacturing & Construction and Business sector with 31% & 33% of total lending being done in that sector, NSBL also has higher concentration on Manufacturing & Construction and Business Sector with 34.68% and

40.60% of total lending being in that sector. Lending of EBL is more diversified among sectors as shown by Coefficient of variation.

#### 4.15.2 Collateral wise lending

Banks lend against various types of collateral security like moveable property, fixed property, against guarantee of other banks, against FDR, against export documents etc.

**Table No 4.23**

**Collateral wise lending of EBL & NSBL as on year end 2010/11**

(Amount Rs in lacs)

|                                      | EBL               |                | NSBL              |                |
|--------------------------------------|-------------------|----------------|-------------------|----------------|
|                                      | Amount            | Percentage     | Amount            | Percentage     |
| Moveable/Immovable assets            | 307,375.59        | 97.08%         | 194,246.53        | 89.44%         |
| Government Guarantee                 | 1,987.36          | 0.63%          | 1,561.21          | 0.72%          |
| Internationally Rated Bank Guarantee | -                 | 0.00%          | 980.00            | 0.45%          |
| Export Documents                     | -                 | 0.00%          | 1,877.28          | 0.86%          |
| Fixed Deposit Receipt                | 6,413.19          | 2.03%          | 7,228.41          | 3.33%          |
| Government Bond                      | 39.95             | 0.01%          | 917.25            | 0.42%          |
| Personal Guarantee                   | 25.00             | 0.01%          | -                 | 0.00%          |
| Other Securities                     | 776.60            | 0.25%          | 10,377.19         | 4.78%          |
| <b>Total</b>                         | <b>316,617.69</b> | <b>100.00%</b> | <b>217,187.87</b> | <b>100.00%</b> |

*Source: Annual report FY 2010/11*

Both banks have higher proportion of lending against Moveable/Immovable assets, which is normal. Lending by NSBL against guarantee of international rated bank, export documents etc shows more amount of commercial banking practice shown by it.

### 4.15.3 Geography wise lending

Banks open branch at various locations of country and lends from there. Besides, enhancing customer service, increasing network of the bank and adding on business and profit figure of the banks it also serves a vital role, diversification of risk to various geographical sector.

**Table No 4.24**

**Branch-wise Distribution of Credit of EBL & NSBL as on year end 2010/11**

(Amount Rs in lacs)

|                                   | <b>EBL</b> | <b>NSBL</b> |
|-----------------------------------|------------|-------------|
| <b>Number of branches/centers</b> | 43         | 50          |
| <b>Average Lending per branch</b> | 7,314.12   | 5,721.50    |
| <b>Standard Deviation</b>         | 339.14     | 1,653.80    |
| <b>Coefficient of Variation</b>   | 4.64%      | 28.91%      |

*Source: Annual reports FY 2010/11*

Table 4.25 shows that EBL has diversified its lending across 43 branches. Average lending per branch is Rs 7,314.12 lacs and standard deviation is Rs 339.14 lacs with Coefficient of Variation of 4.64%. This shows wide dispersion of lending across branches. Lending is concentrated in New Baneshwor, New Road and other valley branches. Old branches has higher amount of lending which seems obvious.

NSBL has diversified its lending across 50 branches. Average lending per branch is Rs 5,721.50 lacs and standard deviation is Rs 1,653.80 lacs with Coefficient of Variation of 28.91%. This shows very wide dispersion of lending across branches. Lending is concentrated in Corporate Credit, Birgunj, Biratnagar, Durbarmarg & New Road branches. Branches which are concentrating on corporate lending and are old has higher amount of lending.

Both the banks have branches concentrated at business centers of Terai region and Kathmandu valley. The banks are not going to remote areas also due to insecurity in the past. Now as the conflict has resolved banks are going to remote areas also.

#### **4.16 Presentation and Analysis of Primary Data**

The assets selection procedure of any bank is mainly influenced by the organizational credit policy and operational procedure. The policy of bank helps in asset selection, post sanction monitoring and quality of assets of the banks to be maintained. So to study how the selected banks select their assets, procedure and organization of post sanction monitoring, primary data is collected. This section on primary data analysis mainly deals with qualitative/quantitative aspects of asset selection procedure and post sanction monitoring of the sample banks.

For the purpose of collecting primary data, structured questionnaires have been distributed to the top level credit officials of both banks and the below section is based on responses thereon.

##### **4.16.1 Credit Appraisal Procedure**

###### **Credit Appraisal Procedure of EBL**

Initially all the standard credit appraisal procedure is completed at branch level. This credit appraisal procedure includes all the standard procedure like marketing/receipt of application, loan interview, site visit including collateral, reference check, documentation and credit analysis. Certain level of power is vested at branch level according to the position of Branch Manager. For the loan amount beyond vested powers are referred to the Corporate Office, where the loan is sanctioned by appropriate authority. The loaning authority is divided in four levels, Managerial, DGM (Credit), CEO and Management Committee. Upto DGM (Credit) level sanctioning authority is enjoyed by a single person, but exercised only on recommendation of lower authority. CEO can exercise his power only jointly with DGM (Credit), he can't exercise his power without consent of DGM (Credit). Beyond the powers of CEO committee approach is taken. If higher authority

doubts the appraisal made by lower authority it conducts the site visit by itself, also periodic visit of branches are made.

### **Credit Appraisal Procedure of NSBL**

Initially all the standard credit appraisal procedure is completed at branch level. This credit appraisal procedure includes all the standard procedure like marketing/receipt of application, loan interview, site visit including collateral, reference check, documentation and credit analysis. Certain level of power is vested at branch level according to the position of Branch Manager. For the loan amount beyond vested powers are referred to the Corporate Office, where the loan is sanctioned by appropriate authority. The loaning authority is divided in five levels, Managerial, AGM (Credit), Credit Committee, Executive Committee and Board. Upto AGM (Credit) level sanctioning authority is enjoyed by a single person, but exercised only on recommendation of lower authority. Beyond the powers of AGM (Credit) committee approach is taken. If higher authority doubts the appraisal made by lower authority it conducts the site visit by itself, also periodic visit of branches are made.

#### **4.16.2 Benchmarks**

Every loan proposal is a different case so it is hard to establish benchmarks. Decision is done on case to case basis using personal judgment and justification. However, for ease some benchmarks followed which are as presented below for EBL & NSBL.

**Table No 4.25**

**Benchmark of various ratios of EBL & NSBL**

|  | <b>EBL</b>                                  | <b>NSBL</b>  |
|--|---|--|
| Sales Turnover<br>(For working capital facilities) | 5 times                                     | 4 times  |
| Current Ratio                                      | min 1.33                                    | min 1.10   |
| Debt Equity Ratio                                  | max 1                                       | max 3  |
| Borrowers Margin<br>(for working capital facility) | 25% of stocks<br>50% receivables            | 25% of stocks &<br>receivables                     |
| For TR loans                                       | 10%   | 10%  |
| Borrowers Margin<br>(for Term Loans)               | 30%   | 30%  |
| DSCR<br>(for Term Loans)                           | min 2                                       | min 1.33   |
| Collateral Coverage                                | 100%  | 100%   |
| Valuation method                                   | 60% market value<br>40% government<br>value | 60% market value<br>40% government<br>value        |
| Income required<br>(for retail loans)              | 2 times of EMI                              | Uncommitted<br>monthly income<br>1.33 times of EMI |

On Sales Turnover required for fixing limit is more relaxed on NSBL than on EBL. EBL grants working capital limit of 20% of sales turnover whereas NSBL grants 25%.

Both the banks seek the minimum current ratio of 1.33 times, higher the better.

On Debt Equity Ratio EBL is more conservative than NSBL. It takes max debt equity ratio of 1 times, where as NSBL takes up to 3, lower the better.

For maintaining Drawing Power on working capital facilities EBL deducts 50% margin on receivables and 25% margin on stocks, where as NSBL deducts 25% margin flatly on both stocks & receivables. NSBL is more relaxed on margin required for working capital facilities.

Borrowers Margin on Term Loans, both Banks accept upto 30% margin however the borrowers margin may differ with respect to the credibility of clients.

EBL wants to have min DSCR of 2 times where as for NSBL having 1.33 times is okay, higher the better.

Generally both banks insist on collateral coverage which seems normal practice in case of Nepal and a ground reality. Small loans are generally not granted without collateral coverage. Both banks seek minimum 100% collateral coverage. Both the banks have similar valuation method.

In case of retail loans, NSBL seems to be more realistic in terms of repayment capacity. EBL wants monthly income 2 times of EMI payable, where as NSBL relies on uncommitted monthly income. It wants at least 1.33 times of uncommitted monthly income of EMI payable. If a person has monthly income of Rs 10,000, then as per NSBL norms he can't be granted loan has uncommitted income of his must be nil as Rs 10,000 p.m. is required for his household expenses. But for EBL he can be considered for loan amount having EMI upto Rs 5000. Later he may fail to meet his obligations due to non availability of uncommitted income.

Though there are benchmarks, these are not applicable on all cases, relaxation are allowed on case to case basis. Again these shows exposure banks are willing to take.

#### **4.16.3 Post Sanction Monitoring**

##### **Post Sanction Monitoring of EBL**

The business loan clients for working capital facilities and Term Loans are visited every month at irregular intervals to control DP, to monitor the running condition of the firm to

check the primary security. Collateral securities are visited once in a year. Quarterly review sheet of accounts are forwarded to the Corporate Office. Working capital loan is granted for one year and renewed only after satisfactory conduct.

Retail Loan accounts are visited once in a year.

If the loan defaults in its EMI payment or interest payment it must be reported to Corporate NPA cell. The accounts are also followed up for regularization at branch level to avoid provision.

#### **Post Sanction Monitoring of NSBL**

NSBL also follows similar practice for post sanction monitoring. The business loan clients for working capital facilities and Term Loans are visited every quarter at irregular intervals to control DP, to monitor the running condition of the firm to check the primary security. Collateral securities are visited once in a year. There is no provision for quarterly review sheets for working capital loan, however, quarterly review sheet of Term Loan accounts are forwarded to the Corporate Office. Working capital loan is granted for one year and renewed only after satisfactory conduct.

Retail Loan accounts are visited once in a year.

If the loan defaults in its EMI payment or interest payment it must be reported to Corporate NPA cell. The accounts are also followed up for regularization at branch level to avoid provision.

However, interest suspense and overdue Term Loan installments are taken more seriously at EBL at Corporate level and vigorously followed up.

#### **4.17 Major Findings**

- From the year 2006/07 to 2010/11. Loans and Advances figures of the EBL have grown by 2.24 times where as NSBL has grown only 2.15 times. Average growth rate of EBL is 26.02% where as that of NSBL is 21.44%. Growth of EBL has fuelled by

- its rapid branch expansion and management. EBL is better in terms of resource mobilization and growth.
- Average NPA % of EBL during study period is 0.48% which is far lower than that of NSBL having 1.51%. During study period variability of NPA% of NSBL is higher than EBL shown by CV of 49.17% against 61.30% of NSBL. NSBL has made considerable recovery on year 2010/11. NPA as a percentage of total credit of both banks is decreasing except in year 2010/11 where the NPA of EBL has increased. The NPA figures of EBL is always and far lower than that of NSBL Regarding NPA figures EBL has left NSBL far behind. EBL is better in managing NPA. However, NSBL also is managing its NPA. Its NPA figure as percentage of Gross Loans & Advances figure is declining again it has to achieve a lot in this front. As per view taken with management of NSBL, there is insignificant amount of NPA addition in last three years and they are vigorously trying for the better NPA management.
  - Regarding composition of NPA both banks has higher proportion of Loss loans. This also reveals improper loan classification by both banks. Loans are being managed and shown as pass loan by window-dressing when they show early sign of sickness. Later when they become unmanageable they are directly shown as Loss loans.
  - Average CD ratio of EBL is 76.53% with CV of 1.73%, the same of NSBL is 67.88% and 18.56%. NSBL is far better in terms of liquidity shown by its lower C/D ratio and variability. It's deposit base is strong and C/D ratio is lower than EBL. It may be preparing itself for huge investment needed for upcoming hydro power financing. EBL crossed C/D ratio of 75% in past two years, EBL is in tough position in terms of liquidity especially during past 2 years. EBL should take immediate action to enhance its deposit base. In fact, it has started that by opening rural branches targeting deposit business and instructing its staff members to focus more on deposit.
  - I/D ratio of EBL is hovering around 10-30% whereas I/D ratio of NSBL is in between 20%-50%. During the study period average I/D ratio of EBL is 19.75% with standard deviation of 4.55% and coefficient of variation of 23.01%, the same of NSBL respectively being 36.92%, 11.50% and 31.16%. The average ratio NSBL is higher during the study period.

- Yield on Advances of both banks are in increasing trend. This is in tune with the increase in interest rate over the period. YOA of EBL is consistently higher than that of NSBL. Only in the year 2006/07 yield of NSBL is higher than EBL. However, EBL has recovered on year 07/08 and YOA increased from 6.87% to 7.06%. Average YOA of EBL during study period is 8.73% and that of NSBL is 8.47%. EBL has higher variability in YOA shown by 23.61% CV against 20.69% of NSBL. EBL is better in terms of Yield on advances. However, gap in narrowing. This is due to high amount of small lending and Retail lending by EBL where yield is higher. EBL is also bearing higher operating expenses for the same purpose.
- Average Yield on Investment of EBL during the study period is 4.66% with standard deviation of 1.17% and coefficient of variation of 25.14%. NSBL has average of 2.30%, with standard deviation of 1.15% and CV of 50.18%. Yield of EBL is higher than NSBL and it also has low variability.
- During the study period average spread of EBL is 4.41% and that of NSBL is 2.92%. However, EBL has higher variability on average spread as shown by higher CV of 6.64% against 4.33% of NSBL. EBL is consistently better in terms of weighted average spread. This is both due to higher yield on advances and lower cost of deposit. Cost of deposit is lower for EBL due to high percentage of low cost deposit mainly Savings Account.
- Average operating expenses to total asset of EBL is 1.37% and of NSBL is 1.30%, showing higher efficiency of NSBL. However, NSBL has higher variability shown by CV of 9.52% against 6.41% of EBL during the study period. Average employee expensed to total assets of EBL during the study period is 0.53% with standard deviation of 0.08% and CV of 14.67% same of NSBL respectively being 0.42%, 0.07% and 16.95%. NSBL has higher efficiency despite of having but higher variability. In the efficiency front, NSBL has beaten EBL. NSBL has efficiently employed its staff-members, per employee business is higher than that of EBL.
- Reliance of EBL on Net Interest is nearly constant hovering around 73% to 81% same is hovering around 70% to 78% of NSBL. During the study period average ratio of NSBL is 76.32% against 77.49% of EBL, it also has high volatility shown by CV during the study period 4.41% of NSBL against 3.49% of EBL during the period.

Both banks have higher dependence on interest income. This dependence of EBL is somewhat constant but dependence of NSBL on interest income is decreasing showing the good sign.

- Fixed asset to total L&A ratio EBL during the study period is 1.59% and of NSBL is 1.55% showing that NSBL is comparatively efficiently deploying its fixed assets. However, CV of EBL is 15.24% and of NSBL is 34.57% showing higher variability on NSBL part. NSBL is ahead of EBL to efficiently manage its fixed assets
- In terms of capital adequacy both banks have met the minimum capital requirement. As per Basel II norms NSBL is more comfortable in terms of Tier I capital where as EBL is more comfortable in Capital Fund.
- EBL has credit risk of 92.73% of total risk weighted exposure and NSBL has 92.93% on 2010/11. Both banks have higher proportion of Credit Risk in proportion of total risk which is obvious. NSBL has higher proportion of Market risk than that of EBL as shown by 2.67% of total risk weighed exposure against 0.35% of EBL.
- In terms of breakdown of Credit Risk. NSBL has more proportion of claims on corporate which demonstrates its strong corporate lending. EBL has higher proportion of low risk categories like claims secured by residential property and claims on regulatory retail portfolio.
- EBL has better diversified its lending in various sectors. NSBL has higher concentration of its lending in Business sector having 40.60% of total lending followed by Manufacturing & Construction sector.
- On credit appraisal front NSBL as more professional and realistic norms, where as EBL is following traditional banking. Also loaning power of EBL is more personal and of NSBL is committee approached. Due to personal powers EBL can reap benefit from fast decision making.
- Post sanction follow-up practice of EBL is obviously more efficient shown by lower amount of NPA.

## CHAPTER V

### SUMMARY, CONCLUSION AND RECOMENDATIO

#### 5.1 Summary

A bank is an institute providing various financial services to its customers. It accepts broad range of deposits accounts which includes time deposit, saving deposit and checking deposits. The amount received from deposit is being lent to various individuals and institutions as loans and advances. The interest rate that is being paid to depositors is lower than the interest rate that is being paid by the loans accounts. The difference between lending rate and deposit rate is the spread rate which is a major source of income for the banks. Besides the spread rate income, banks have other income such as fee based income, exchange income etc. Banks act as agent for the flow of capital. A well-developed banking system is a necessary pre-condition for economic development in a modern economy. Besides providing financial resources for the growth of industrialization, banks can also influence the direction in which these resources are to be utilized. In modern economy, bank plays the vital role for development in every sector from our day to day life to big industrial sector. It's like the relationship between the heart and the blood. Banks are to be considered not merely as dealers in money but also the leaders in development. They are not only the collector of the country's wealth but also the resources supplier for economic development. In the 18<sup>th</sup> and 19<sup>th</sup> centuries, the growth of commercial bank facilitated the occurrence of industrial revolution in Europe. Similarly, the economic process development in the present day largely depends upon the growth of sound banking system in these economies.

The banks lend the money collected as deposit in which there is obligation of banks to pay the interest and principal upon the written demand of its depositors. Hence, the lending decision of banks should be effective and efficient so that in bank can manage its lending portfolio and can easily fulfill the obligations towards its depositors. In case of worst case scenario, when the bank's lending portfolio is not properly managed, that lead

to the risk on its assets and hence the not only the banks have to suffer in the long run the overall industry also gets suffered.

Managing commercial banks means mainly the management of its risk assets i.e. loans and advances. Profitability of a bank is mainly depends on the risk management. How the portfolio is managed and average yield on its lending portfolio becomes the major for the efficiency of bank.

Banks have to manage their risky assets in various ways. The bank may take the lending decision based on the collateral coverage, credibility of party, past business history of party etc. There is asset selection procedure; this is how the banks select its assets. How they calculate risk inherent in every assets created and ways to mitigate it. Banks have to lend and also make sure that it returns back. To mitigate the risk they also must diversify the risk among various borrowers and among various sectors. Also there must be system to continuously monitor and evaluate the performance of existing assets. If is any sign of sickness is shown remedial action should be taken on time. This will prevent the loan default. The banks also must have loss absorbing capacity. There must to enough capital to absorb the loss before it pass on to the deposit holders.

This study intends to dissert the asset management practice of two major joint venture banks of Nepal, Everest Bank Limited and Nepal SBI Bank Limited. The specific objectives are: (i) to access the growth of the banks, (ii) to analyze structure of assets held by two banks, (iii) to access the assets selection procedure of two banks, (iv) to analyze the NPA composition of the assets, (v) to highlight the mitigation structures and initiatives taken by the banks to control NPA, (vi) to examine the capital adequacy position of two banks and (vii) to examine liquidity, earning power, efficiency, risk diversification of two banks.

In this research study, the various financial tools mainly ratio analysis statistical tools like percentage, mean, standard deviation, coefficient of variance is used for the purpose of analysis and interpretation of data. The data which are used in the study are mainly secondary in nature but also primary data in form of questionnaire is used. These data are

obtained from the annual reports of EBL and NSBL from the fiscal year 2006/07 to 2010/11. Likewise, the news and journals published in different period are also been the great source of data collection. As we know today's world is the world of computer and IT, so internet also has been an effective means of data collection.

Detail analysis asset management practice followed by the banks has been carried out. Analysis of figures such as Loan & Advances figures and growth, NPA figures and composition, earning capacity, efficiency ratios, capital adequacy, diversification practice and asset selection procedure and post sanction monitoring practice are carried out to find the present position of the selected banks. Statistical tools such as mean, standard deviation, coefficient of variance have also been used to interpret the data.

The study show that EBL is ahead of NSBL in many asset management practices but NSBL is ahead in efficiency and setting up realistic banking norms.

## **5.2 Conclusions**

The study led to conclude that the overall performance of both bank is satisfactory. Both banks are growing and improving their performance in various asset management practices like, curbing NPA, maintaining liquidity enhancing efficiency etc. These banks are acting as financial intermediaries, which provide a link between borrowers and lenders by mobilizing the scattered funds towards productive investment. Both banks are performing satisfactorily and growing with steady pace Based on the analysis and findings of the study, the following conclusion can be drawn.

- i. EBL has surpassed NSBL in many areas, it has higher growth. In fact during past 3-4 years EBL has grown rapidly and healthily. EBL is aiming to be number 1 bank among private sector banks in near future and it is showing traits of the same. EBL's gross loans and advances have increased in higher volume than that of the NSBL's. However, in the last year, the growth of NSBL is higher than that of EBL despite of lower volume based increment.
- ii. EBL has better NPA position in volume. The NPA volume of NSBL is almost three times higher than NPA of EBL. The average NPA percentage of EBL is lower than

- NSBL despite of higher gross loans and advances which means that EBL has better NPA management. The better NPA management of EBL is mainly due to diversified risk portfolio, higher retail lending, better assets selection procedure.
- iii. Liquidity position of NSBL is better than EBL. NSBL has lower C/D ratio during the last three years. NSBL should focus on lending its excess liquidity to trusted and tested business entities in order to enhance its profitability through lending. However, EBL also has the comfort level of liquidity position and has better utilized its liquidity.
  - iv. EBL has higher yield and higher spread enhancing its profitability. The reason behind having higher yield on advances is mainly due to diversified risk portfolio and higher portion on retail lending which has higher rate of return. Further, the low cost deposit also has made effect on higher spread and yield.
  - v. NSBL is better than EBL in the efficiency front. It has better mobilized its manpower and assets to generate business and income.
  - vi. Both the banks have high reliance on interest income. This is the sign of traditional banking. Both should focus on other commission and fee based non fund based business. In this regards, EBL is comparatively in better position on profitability. EBL has lower interest income and portion of fee based income is higher. NSBL should focus on fee based income so that the overall profitability will not have negative impact despite of turning of its risky assets into doubtful or substandard.
  - vii. EBL has stronger customer base. It is strong in retail lending front where as NSBL is more strong in corporate lending front. This may be due to fact that, from the initial phase EBL stressed in retail front but NSBL initially tried to do wholesale banking, only later it understood the benefit of retail lending. However, NSBL also is doing slowly in this front.
  - viii. NSBL has more realistic credit standards than EBL. It seems that EBL haphazardly sets the credit norms like income requirement, current ratio requirement etc. NSBL does more study while setting credit norms.

### 5.3 Recommendation

On the basis of the analysis and findings, the following suggestions (recommendation) can be forwarded to overcome weakness, inefficiency and to improve the overall asset management practice as well as fund mobilization of EBL and NSBL.

- NSBL has more shortcoming than that of the EBL like growth, composition of lending portfolio, composition of income, etc. NSBL should focus on enhancing its comfort liquidity position to loans and advances so that the overall profitability would be higher. Further, NSBL should focus on fee based income so that despite of negative impact on interest recovery, the overall profitability will not be affected. To have higher interest spread, NSBL should focus on retail and SME loans where there is adequate security coverage and higher interest rate. Further, the retail and SME lending also enhance the processing fee income to the bank. Despite of having more branches network, NSBL has lower gross loans and advances. Hence, NSBL should put remarkable effort to bring out the higher lending portfolio for the reason that NSBL should have effect action against it. Most of the NSBL rural branches are focused on privileged services to Ex-Indian army, therefore, the branch should be full fledged providing all the services like LC, Guarantee, Remittance etc and equipped with competent, experienced and customer friendly manpower. In fact, NSBL has moved towards this direction.
- NSBL has comparatively lower customer base than that of the EBL. So it has to diversify risk among numbers of customers by increasing its customer base. This also helps it in increasing business figure in future. As shown by lower C/D ratio, NSBL should utilize its comfort liquidity position to secured lending for the higher interest yield and higher profitability. It also has to increase proportion of low cost deposit like Savings account and Current Accounts.
- Both banks have high reliance on interest income comparatively EBL is in better position than NSBL. The interest income of both bank is hovering around 70% to 80%. Interest Income being fund based has high risk. So both banks should try to increase its commission income like agency commission, remittance etc. This must be

- focused particularly by NSBL. NSBL is lagging far behind on LC/Guarantee Commission, Service Charge, Renewal Fee, Remittance Fee etc.
- EBL is always lagging behind NSBL at efficiency front. It has to train its employees, hire more competent man power and avoid duplication in works to enhance its per employee business.
  - Performance of EBL in terms of managing NPA is outstanding. NSBL to learn more from it on this arena. NSBL is also gradually decreasing its NPA percentage but the same is not sufficient. The volume of NPA if NSBL is higher than EBL despite of reducing the NPA percentage. It has to try to curb the NPA from its early sign like high utilization of limits, interest suspense, overdue TR and overdue installments.
  - EBL is doing traditional banking in its commercial banking segment. Its lending is more collateral based and it provides its corporate customers less modern banking facilities. EBL to make its staff members more aware about banking services to provide it to its customers.
  - Business of NSBL is concentrated among some branches, some sectors and on corporate lending. It has to diversify its business across many branches, many sectors and also increase its retail lending proportion.
  - Both the bank should alert on its assets selection process. As the recent banking incidents are leading some of the banks and financial institutions to liquidation. The same should be kept in mind for future.

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## APPENDEX-A

### PRO FORMA OF STRUCTURED QUESTIONNAIRE

1. What is the number of employees that you have as on year end 2010/11?
2. Please give us the sector wise loans and advances as per NRB for Fiscal Years 2010/11:
3. Please fill up the benchmark you seek on followings while making lending decision

|  |  |
|--|--|
| Sales Turnover<br>(For working capital facilities) |  |
| Current Ratio                                      |  |
| Debt Equity Ratio                                  |  |
| Borrowers Margin<br>(for working capital facility) |  |
| For TR loans                                       |  |
| Borrowers Margin<br>(for Term Loans)               |  |
| DSCR<br>(for Term Loans)                           |  |
| Collateral Coverage                                |  |
| Valuation method                                   |  |
| Income required<br>(for retail loans)              |  |

## **APPENDIX-B**

### **PRO FORMA OF UN-STRUCTURED INTERVIEW**

1. Please briefly describe about loan appraisal procedure at the time of initial sanction and renewal with special attention on loaning powers.
2. Please briefly describe about the measures you take for post sanction monitoring of credit accounts with special focus on interval of periodic visit of units and collateral security, provision of review sheets organization, structure and procedure of recovery of NPAs.