## ANNEX - I

## Questionnaire

## Dear Sir/Madam,

This is to bring your kind information that this is an attempt to identify the root Determinants of Share Price of Nepalese Commercial Banks listed in NEPSE for the partial fulfillment of Thesis required for MBS degree, TU. you are kindly requested to fill up the following questionnaire with the best answer in your view. I would be grateful to you for the contribution of your valuable time and effort.

Please note that all the questions are related to the a study on share price behavior 0f Nepalese capital market

Name : $\qquad$ Sex: M [ ] F [ ] Age: $\qquad$
Occupation (Tick One):

- Professional Investor
- Potential Investor
$\square$ Market Analyzer
$\square \quad$ Others (Specify)
Academic Qualification (tick appropriate):

| $\square$ | Under SLC | $\square$ |
| :--- | :--- | :--- |
| $\square$ | Graduate |  |
|  | Higher Secondary | $\square$ |
| Post Graduate |  |  |

## Questions:

## Please Tick the best alternative (QN 1-4)

1. Which one do you think is major purpose to invest in Company Stocks?

- To earn maximum profit
- Safe investment
- For capital gain
- Help capital mobilization
- Others (if any)

2. It has been observed that the share investors of Nepal are highly attracted in the shares of Commercial Banks for their investment. What do you think is the prime cause of this?

- Continuous Declaration of Dividend
- Market Stability
- Banks are better controlled/managed
- Others

3. Do you think that Nepalese investor make investment decision after the analysis of relevant indicators?

Yes [ $]$ No [ ] Can't Say [ ]
4. In your experience the prevailing laws and policies regarding the buying and selling of shares are perfect?

- Yes
- No
- Don't know

Please indicate with the appropriate letter(s) in the gap to which extent do you agree with the following statements by filling in the blanks provided. (QN 5-11)

| SA | for | Strongly Agree |
| :--- | :--- | :--- |
| A | for | Agree |
| $\mathbf{U}$ | for | Undecided |
| D | for | Disagree |
| SD | for | Strongly Disagree |

5. EPS is the main determiner of Share Price because higher EPS indicates higher Share Price.
6. Dividend Pattern plays vital role on the determination of Share Price because higher the DPS, more will be the share price $\qquad$
7. Good Company Assets structure indicates higher share price $\qquad$
8. Better Capital Structure results higher share price $\qquad$
9. Political situation also cause the change in share price $\qquad$
10. Annual General Meeting and the election of Board of Director influence the share price
$\qquad$
11. Higher the risk of the company, higher will be the share price $\qquad$

Please Rank 1, 2, 3,..., 6. [1 for the best factor]
12. Which of the following do you think affects the share price of the company?


## Thank you for your time and effort.

APPENDIX - II
Classification of Respondents of Survey (Q.N. 1-4)

| S.N. | Stem | Professional Investor | Potential Investor | Market Analyzer | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | a. | 25 | 9 | 2 | 36 |
|  |  | (78) | (60) | (67) | (72) |
|  | b. | 2 | 3 | 1 | 6 |
|  |  | (6) | (20) | (33) | (12) |
|  | c. | 2 | 1 | 0 | 3 |
|  |  | (6) | (7) | 0 | (6) |
|  | d. | 3 | 2 | 0 | 5 |
|  |  | (9) | (13) | 0 | (10) |
|  | Total | 32 | 15 | 3 | 50 |
|  |  | (100) | (100) | (100) | (100) |
| 2 | a. | 14 | 4 | 1 | 19 |
|  |  | (44) | (27) | (33) | (38) |
|  | b. | 2 | 3 | 0 | 5 |
|  |  | (6) | (20) | 0 | (10) |
|  | c. | 16 | 8 | 2 | 26 |
|  |  | (50) | (53) | (67) | (52) |
|  | Total | 32 | 15 | 3 | 50 |
|  |  | (100) | (100) | (100) | (100) |
| 3 | a. | 21 | 7 | 0 | 28 |
|  |  | (66) | (47) | 0 | (56) |
|  | b. | 8 | 5 | 2 | 15 |
|  |  | (25) | (33) | (67) | (30) |
|  | c. | 3 | 3 | 1 | 7 |
|  |  | (9) | (20) | (33) | (14) |
|  | Total | 32 | 15 | 3 | 50 |
|  |  | (100) | (100) | (100) | (100) |
| 4 | a. | 15 | 7 | 1 | 23 |
|  |  | (47) | (47) | (33) | (46) |
|  | b. | 7 | 3 | 0 | 10 |
|  |  | (22) | (20) | 0 | (20) |
|  | c. | 10 | 5 | 2 | 17 |
|  |  | (31) | (33) | (67) | (34) |
|  | Total | 32 | 15 | 3 | 50 |
|  |  | (100) | (100) | (100) | (100) |

Note:
a. S.N. refers to Question Number.
b. Stem refers to the options of the answer.
c. The figure in bracket refers to the percentage of respective no. of respondents.

## APPENDIX - III

Rank wise No. of Responses of Survey (Q.No. 12)

| S.N. | Indicators | Basis | Rank |  |  |  |  |  | Total | Weight | Mean Wt. | Overall <br> Rank |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 | 4 | 5 | 6 |  |  |  |  |
| 1 | EPS | Total | 25 | 18 | 4 | 2 | 0 | 1 | 50 | 87 | 1.74 | 1 |
|  |  | Professional Investor | 17 | 13 | 1 | 1 | 0 | 0 | 32 | 50 | 1.56 | 1 |
|  |  | Potential Investor | 6 | 4 | 3 | 1 | 0 | 1 | 15 | 33 | 2.20 | 2 |
|  |  | Market Analyzer | 2 | 1 | 0 | 0 | 0 | 0 | 3 | 4 | 1.33 | 1 |
| 2 | DPS | Total | 18 | 23 | 7 | 2 | 0 | 0 | 50 | 93 | 1.86 | 2 |
|  |  | Professional Investor | 11 | 14 | 5 | 2 | 0 | 0 | 32 | 62 | 1.94 | 2 |
|  |  | Potential Investor | 6 | 8 | 1 | 0 | 0 | 0 | 15 | 25 | 1.67 | 1 |
|  |  | Market Analyzer | 1 | 1 | 1 | 0 | 0 | 0 | 3 | 6 | 2.00 | 2 |
| 3 | Assets | Total | 0 | 0 | 2 | 4 | 18 | 26 | 50 | 268 | 5.36 | 6 |
|  |  | Professional Investor | 0 | 0 | 2 | 2 | 10 | 18 | 32 | 172 | 5.38 | 6 |
|  |  | Potential Investor | 0 | 0 | 0 | 2 | 7 | 6 | 15 | 79 | 5.27 | 6 |
|  |  | Market Analyzer | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 17 | 5.67 | 6 |
| 4 | Capital | Total | 0 | 3 | 6 | 6 | 21 | 14 | 50 | 237 | 4.74 | 5 |
|  |  | Professional Investor | 0 | 2 | 4 | 3 | 15 | 8 | 32 | 151 | 4.72 | 5 |
|  |  | Potential Investor | 0 | 1 | 2 | 2 | 6 | 4 | 15 | 70 | 4.67 | 5 |
|  |  | Market Analyzer | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 16 | 5.33 | 6 |
| 5 | Political | Total | 4 | 5 | 21 | 10 | 6 | 4 | 50 | 171 | 3.42 | 3 |
|  |  | Professional Investor | 3 | 3 | 14 | 7 | 4 | 1 | 32 | 105 | 3.28 | 3 |
|  |  | Potential Investor | 1 | 1 | 6 | 3 | 2 | 2 | 15 | 55 | 3.67 | 4 |
|  |  | Market Analyzer | 0 | 1 | 1 | 0 | 0 | 1 | 3 | 11 | 3.67 | 4 |
| 6 | AGM | Total | 3 | 1 | 10 | 26 | 5 | 5 | 50 | 194 | 3.88 | 4 |
|  |  | Professional Investor | 2 | 1 | 6 | 16 | 3 | 4 | 32 | 125 | 3.91 | 4 |
|  |  | Potential Investor | 1 | 0 | 4 | 7 | 2 | 1 | 15 | 57 | 3.80 | 4 |
|  |  | Market Analyzer | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 12 | 4.00 | 4 |

## APPENDIX - IV

Calculation of Regression Line of MPS on DPS of BOK

| Fiscal <br> DPS | DPS <br> DPS | MPS | $x=X-X$ | $y=Y-Y$ | $\mathrm{x}^{2}$ | $\mathrm{y}^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2003/04 | 10 | 295 | -17.022 | -765 | 289.7485 | 585225 | 13021 |
| 2004/05 | 15 | 430 | -12.022 | -630 | 144.5285 | 396900 | 7573 |
| 2005/06 | 48 | 850 | 20.978 | -210 | 440.0765 | 44100 | -4405 |
| 2006/07 | 20 | 1375 | -7.022 | 315 | 49.30848 | 99225 | -2211 |
| 2007/08 | 42.11 | 2350 | 15.088 | 1290 | 227.6477 | 1664100 | 19463 |
| Total | 135.77 | 5300 |  |  | 1151.31 | 2789550.00 | 3344 |

i) Calculation of Mean

Mean | For DPS |
| ---: |
| $X=\quad \sum X / 5=$ |

27.02

For MPS
Mean $\quad X=\sum X / 5=$
$\mathrm{Y}=\sum \mathrm{Y} / 5=$
1060
ii) Calculation of Correlation Coefficient between DPS and MPS
$=$
$\overline{\sum x y}$
$=$ $\qquad$
0.5901
iii) Calculation of Standard Deviation (б)

For DPS
$\sigma_{x}=$

15.17

For MPS
$\sigma_{y}$

746.93

iv) Now the regression line of MPS $Y$ on DPS $X$ is given by;


Same process has been followed to calculate the regression equation of other banks and other variables.

## APPENDIX - V

## Calculation of Multiple Regression Equation of MPS on DPS and EPS of BOK

Let MPS, DPS and EPS are denoted by $\mathrm{X}_{1}, \mathrm{X}_{2}$ and $\mathrm{X}_{3}$ respectively. Then the multiple regression equation of $\operatorname{MPS}\left(\mathrm{X}_{1}\right)$ on $\operatorname{DPS}\left(\mathrm{X}_{2}\right)$ and $\operatorname{EPS}\left(\mathrm{X}_{3}\right)$ be;

$$
\begin{equation*}
\mathrm{X}_{1} \quad=\mathrm{a}_{1}+\mathrm{b}_{1} \mathrm{X}_{2}+\mathrm{b}_{2} \mathrm{X}_{3} \tag{i}
\end{equation*}
$$

The values of constant $a_{1}, b_{1}$ and $b_{2}$ can be determined by solving following three normal equations simultaneously.

$$
\begin{array}{ll}
\sum \mathrm{X}_{1} & =\mathrm{na}_{1}+\mathrm{b}_{1} \sum \mathrm{X}_{2}+\mathrm{b}_{2} \sum \mathrm{X}_{3} \ldots \ldots \ldots \\
\sum \mathrm{X}_{1} \mathrm{X}_{2} & =\mathrm{a}_{1} \sum \mathrm{X}_{2}+\mathrm{b}_{1} \sum \mathrm{X}_{2}^{2}+\mathrm{b}_{2} \sum \mathrm{X}_{2} \mathrm{X}_{3} \\
\sum \mathrm{X}_{1} \mathrm{X}_{3} & =\mathrm{a}_{1} \sum \mathrm{X}_{3}+\mathrm{b}_{1} \sum \mathrm{X}_{2} \mathrm{X}_{3}+\mathrm{b}_{2} \sum \mathrm{X}_{3}^{2} \tag{iv}
\end{array}
$$

| $\mathrm{X}_{1}$ | $\mathbf{X}_{2}$ | $\mathbf{X}_{3}$ | $\mathrm{X}_{1} \mathrm{X}_{2}$ | $\mathrm{X}_{2} \mathrm{X}_{3}$ | $\mathrm{X}_{3} \mathrm{X}_{1}$ | $\mathrm{X}_{2}{ }^{2}$ | $\mathrm{X}^{2}{ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 295 | 10 | 27.5 | 2950 | 275 | 8112.5 | 100 | 756.25 |
| 430 | 15 | 30.1 | 6450 | 451.5 | 12943 | 225 | 906.01 |
| 850 | 48 | 43.67 | 40800 | 2096.16 | 37119.5 | 2304 | 1907.069 |
| 1375 | 20 | 43.5 | 27500 | 870 | 59812.5 | 400 | 1892.25 |
| 2350 | 42.11 | 59.94 | 98958.5 | 2524.073 | 140859 | 1773.252 | 3592.804 |
| $\boldsymbol{\Sigma} \mathrm{X}_{1}=$ | $\boldsymbol{\Sigma} \mathbf{X}_{2}=$ | $\sum \mathrm{X}_{3}=$ | $\boldsymbol{\Sigma} \mathbf{X}_{1} \mathbf{X}_{2}=$ | $\boldsymbol{\Sigma} \mathbf{X}_{2} \mathrm{X}_{3}=$ | $\boldsymbol{\Sigma} \mathbf{X}_{3} \mathbf{X}_{1}=$ | $\boldsymbol{\Sigma} \mathrm{X}_{2}{ }^{2}=$ | $\boldsymbol{\Sigma} \mathbf{X}_{3}{ }^{2}=$ |
| 5300 | 135.11 | 204.71 | 176658.50 | 6216.73 | 258846.50 | 4802.25 | 9054.38 |

Substituting the sum values in normal equation, we get

$$
\begin{align*}
& 5300=5 \mathrm{a}_{1}+135.11 \mathrm{~b}_{1}+204.71 \mathrm{~b}_{2}  \tag{v}\\
& \text { or, } 176658.50=135.11 a_{1}+4802.25 b_{1}+6216.73 b_{2}  \tag{vi}\\
& \text { or, } 258846.50=204.71 \mathrm{a}_{1}+6216.73 \mathrm{~b}_{1}+9054.38 \mathrm{~b}_{2} \tag{vii}
\end{align*}
$$

Multiplying (v) by 135.11 and (vi) by 5 and then subtracting (v) from (vi), we get

$$
\begin{aligned}
& 883292.50=675.55 a_{1}+24011.26 b_{1}+31083.67 b_{2} \\
& 716083.00=675.55 a_{1}+18254.71 b_{1}+27658.37 b_{2}
\end{aligned}
$$

or, $167209.50=5756.55 \mathrm{~b}_{1}+3425.30 \mathrm{~b}_{2}$

Again multiplying (v) by 204.71 and (vii) by 5 and then subtracting (v) from (vii), we get

```
\(1294232.50=1023.55 \mathrm{a}_{1}+31083.67 \mathrm{~b}_{1}+45271.91 \mathrm{~b}_{2}\)
\(1084963.00=1023.55 \mathrm{a}_{1}+27658.37 \mathrm{~b}_{1}+41906.18 \mathrm{~b}_{2}\)
```

$\qquad$
or, $209269.50=3425.30 b_{1}+3365.73 b_{2}$
Again multiplying (viii) by 3425.30 and (ix) by 5756.55 and then subtracting (viii) from (ix), we get,

$$
\begin{aligned}
1204670005.39 & =19717898.90 \mathrm{~b}_{1}+19374978.44 \mathrm{~b}_{2} \\
\begin{array}{c}
5727425816.42 \\
- \\
\text { or } \\
\text { or } 6317898.90 \mathrm{~b}_{1}+11732672.55 \mathrm{~b}_{2} \\
-631927488.97
\end{array} & =7642305.88 \mathrm{~b}_{2} \\
\text { or, } \mathrm{b}_{2} & =\frac{631927488.97}{7642305.88} \\
& =82.69
\end{aligned}
$$

Substituting the value of $b_{2}$ in equation (ix), we get

$$
\begin{aligned}
209269.50 & =3425.30 b_{1}+3365.73 \times 82.69 \\
\text { or, } 209269.50 & =3425.30 b_{1}+278305.57 \\
\text { or, }-69036.07 & =3425.30 b_{1} \\
\text { or, } b_{1} & =\frac{-69036.07}{3425.30} \\
& =-20.15
\end{aligned}
$$

Again substituting the value of $b_{1}$ and $b_{2}$ in equation $v$, we get

$$
\begin{array}{ll}
\quad 5300 & =5 \mathrm{a}_{1}+135.11 \times-20.15+204.71 \times 82.69 \\
\text { or, } 5300 & =5 \mathrm{a}_{1}+14203.96 \\
\text { or, }-8903.96 & =5 \mathrm{a}_{1} \\
\text { or, } \mathrm{a}_{1} & =\frac{-8903.96}{5} \\
& =-1780.79
\end{array}
$$

Now substituting the values of $a_{1}, b_{1}$ and $b_{2}$ in (i), we get multiple regression equation of $\operatorname{MPS}\left(\mathrm{X}_{1}\right)$ on $\operatorname{DPS}\left(\mathrm{X}_{2}\right)$ and $\operatorname{EPS}\left(\mathrm{X}_{3}\right)$;
$\mathrm{X}_{1} \quad=-1780.79-20.15 \mathrm{X}_{2}+82.69 \mathrm{X}_{3}$
i.e. MPS $=-1780.79-20.15$ DPS + 82.69 EPS

