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# Financial Reporting Practices in Public Universities of Bangladesh

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Keywords: financial reporting, financial reporting compliance index (FRCI), public universities, bangladesh.

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# Financial Reporting Practices in Public Universities of Bangladesh

Dr. Shakhawat Hossain Sarkar

Abstract- The objective of recording and reporting of financial transactions in government and non-profit organization is to make sure good governance through ensuring transparency, accountability, reliability, and fairness on dealing of public money. By using primary sources of data, this study strives to appraise the practices of recording and reporting of financial transactions of public universities in Bangladesh. To ascertain the financial reporting compliance practices dichotomous procedure used. Statistical results report that most of the public universities under the study follow cash basis of accounting, prepared receipts and payments accounts, and bank reconciliation statement. All of the universities maintain payment voucher, the majority of the universities doesn't value and record fixed assets and, half of them don't prepare debt receipts and payments account. Financial Reporting Compliance Index (FRCI) of public universities under the study is satisfactory (78.10) but not outstanding. Statistical results testimony that there is a significant relationship between universities' size and FRCI, and financial activities of universities and FRCI but there is no significant relationship between university category and FRCI. The regression model can explain 61.8 percent of total variation by R<sup>2</sup> and 50.3 percent of total variation by AdjR<sup>2</sup>. To ensure good governance in the public sector government should take the initiative to establish an accounting standard-setting organization for public bodies like Institute of Chartered Accountants of Bangladesh. It is needed to introduce accrual basis of accounting in the public sector to ascertain the financial performance and determine the financial position of the public bodies like Sri Lanka, Australia, New Zealand, and the United Kingdom.

Keywords: financial reporting, financial reporting compliance index (FRCI), public universities, bangladesh.

## I. INTRODUCTION

G overnmental accounting is the system of official financial reporting of governmental and nonprofit organizations. The main objective of public sector accounting is to protect the money as a trustee and ensure transparency and accountability. Public and government universities run with the budget provided by the government and a little share of internal sources collected through tuition, fees, etc. from the students. To ensure the proper utilization of the budget apposite and latest accounting methods need to introduce for transparency, accountability, and good governance. The above circumstances insist to discover the existing accounting systems used in the government organization especially in public universities of Bangladesh. The study is an attempt to achieve the goal.

#### a) Literature Review

Accounting and reporting is a part of financial control in the public sector. A budget as a control mechanism has some role compared to the private (Chowdhury, 2012). Government accounting and financial reporting aim to protect and manage public money and discharge accountability (Chan, 2003). Supporters of the shift to accrual accounting argue that a range of significant benefits is available to governments which move from the cash to the accrual basis of accounting (Wynne, 2008). The standard setters and accounting professionals firmly believe that well presented financial reports act as a 'sine-gua-non' to the proper functioning of a developing economy like Bangladesh (Chowdhury, 2012). Developments in governmental activities in recent years have raised concerns over whether the cash basis of accounting is sufficient for accounting and reporting (Rayegan, Parveizi, Nazari, & Emami, 2012). Accrual accounting practices in the private sector and cash accounting practices in the public sector are unconsciously institutionalized. However, in the recent past the Association of Public Finance Accountants of Sri Lanka. which became the public sector wing of the Institute of Chartered Accountants of Sri Lanka in 2012, has initiated accrual accounting practices to the public sector in the country (Nagendrakumar, Fonseka, & Dissanayake, 2015). Almost all the public enterprises prepare their financial statements based on the information determined by them which conform to the accrual basis and double entry system of accounting (Hossain, 2012). The Office of the Comptroller and Auditor General (CAG) of Bangladesh has been working since independence to make the government more transparent and accountable in utilizing public resources. The powers and mandate of the CAG lie in the Constitution of the Peoples Republic of Bangladesh (Hakeem, 2012). Actual expenditure has exceeded the revised budget of public universities. Lack of disclosure on excess over budgeted expenditure and nonuse of budget manual is a clear indication of poor governance (Sarkar, Hossain, & Rahman, 2014). The purpose of prudent public sector financial management is to

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manage the public financial resources with the economy, efficiency, and effectiveness (Hakeem, 2012). From the above-reviewed literature it is found that some research works have conducted in the field of public accounting reforms, public sector accounting and governance, allocation and utilization of budget in public universities, etc. There is a scope of research in the area of recording and reporting of financial transactions at public universities in Bangladesh. That's why the present study attempts to fill in this gap.

#### b) Justification

Government as a whole as well as its different ministries, departments, and corporations have involvement with financial activities. The main source of the finance is tax and non-tax revenue collected from the citizen of the country. So it is an issue to ensure the proper and appropriate use of the fund.

The study has both theoretical and practical values, and it is important for several reasons. First, the research shall rich the existing stock of knowledge in the field of government accounting. Second, the findings of the study would help the policy planners to take suitable policy measures to get benefits from practicing appropriate accounting to ensure accountability, transparency, and reliability of the financial reporting of the public universities.

- c) Objectives
- i. To examine the existing accounting systems of public universities in Bangladesh;
- ii. To focus on the ways of upgrading the accounting and financial reporting of public universities in Bangladesh.

#### d) Methodology

This section presents the source and collection of data, information items included in the FRCI, Scoring in the FRCI and analysis of data, dependent variables, explanatory variables and hypotheses, multiple regression models.

#### i. Source and Collection of Data

The research was empirical research based on both primary and secondary sources of data. The population for the study was considered top and midlevel officials of public universities engaged with the maintenance of accounts and preparation of financial reports. There were 37 public universities in Bangladesh, where four universities' (BSMRMU, BOU, NU, and IAU) nature of activities are dissimilar with all others. To generalize, the researcher has excluded four universities from the study. The population includes one relevant official from each university. So the population size for the study was 33. According to Krejci & Morgan table (1970 cited in KENPRO) for determination of sample size of finite population, the study required a sample size 30 (32 if population size is 35). To collect data from

#### ii. Information Items Included in the Financial Reporting Compliance Index (FRCI)

The major task of the present research is to develop a suitable compliance index comprising items of financial accounting information that are expected to include for accounting and preparation of financial reports. To find out financial reporting practices scenario, 15 items selected through reviewing related literature (Appendix-1).

iii. Scoring in the FRCI and Analysis of Data

To compute financial reporting compliance score (FRCS), the researcher followed a dichotomous procedure and awarded each of the compliance information items with a score of '1'. However, it would be applicable if the university appeared to comply with the item, otherwise it would be '0'. The total score of each university obtained through accumulating the score of all compliance information items of the university as follows:

#### FRCS= $\sum_{i=1}^{n} di$

Where,

d=1 if the item  $d_i$  is complied

d = 0 if the item  $d_i$  is not complied

n= number of items

FRCI computed by using the following formula:

$$FRCI = \frac{FRCS \text{ of Individual University}}{Maximum Possible Score Obtainable} \times 100$$

For effective and easily understandable results, the researcher has used descriptive statistics like frequency, percentile, mean, SD and inferential statistics like multiple linear regressions. He has analyzed data through SPSS (Statistical Packages for Social Science) version 20.

# iv. Dependent Variables, Explanatory Variables, and Hypotheses

FRCI, as a dependent variable, has been developed for each of the universities studied. Three corporate attributes, considered as independent variables, are the size (proxied by the seat at undergrad program), financial activities (proxied by revenue budget size), and university category. The following three hypotheses were developed to test the results.

H01: There is no relationship between FRCI and university size.

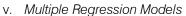
H11: There is a relationship between FRCI and university size.

H02: There is no relationship between FRCI and financial activities of the university.

H12: There is a relationship between FRCI and financial activities of the university.

H03: There is no relationship between FRCI and university category.

H13: There is a relationship between FRCI and university category.



Multiple linear regression models used. The model is-

$$\mathsf{FRCI} = \alpha + \beta_1 \mathsf{UNVSIZ} + \beta_2 \mathsf{UNVFINACT} + \beta_3 \mathsf{UNVCAT} + \epsilon$$

cash basis of accounting whereas a minor portion (28.6

percent) of public universities is followed modified

accrual basis of accounting to record accounting

transactions. According to the World Bank (2007),

Bangladesh does not comply with the International

Public Sector Accounting Standards (IPSAS) cash basis.

accounting but, state-owned enterprises use accrual

accounting like the private sector (Chowdhury, 2012).

government departments use cash basis

Where,

FRCI= financial reporting compliance index

 $\alpha$  = the constant

 $\mathcal{E}$  = the error term

Table 1: List of independent variables, their labels and expected signs and relationships in the regression

| Variable Labels | Variables                        | Expected sign and relationship   |
|-----------------|----------------------------------|--|
| UNVSIZ          | University Size                  | UNVSIZ has a negative relationship with the levels of financial reporting compliance.    |
| UNVFINACT       | University Financial<br>Activity | UNVFINACT has a positive relationship with the levels of financial reporting compliance. |
| UNVCAT          | University Category              | UNVCAT has a positive relationship with the levels of financial reporting compliance.    |

Pure

#### **RESULTS AND DISCUSSION** Н.

In this section, data was analyzed and discussed the results. The section divided into two parts. In the first part, existing accounting systems of the sample universities presented. In the second part, a regression model was developed for the study problem.

#### a) Existing Accounting Systems in Universities

Here it is emphasized on the analysis and interpretation of a different aspect of accounting and financial reporting of public universities in Bangladesh.

#### i. Basis of Accounting

Table-2 testimony that most of the public universities (71.4 percent) under the study are followed

| Categories                | Frequency | Percent |
|---------------------------|-----------|---------|
| Cash Basis                | 10        | 71.4    |
| Modified<br>Accrual Basis | 4         | 28.6    |

Table 2: Basis of Accounting

Source: Analysis of Primary Data.

#### ii. Voucher Maintained

Table-3 indicates that all of the public universities (100 percent) under the study are prepared expenditure voucher, 71.4 percent prepared income voucher and, 85.7 percent of them are adjustment voucher to record accounting transactions.

| Categories          | Frequency | Percent |
|---------------------|-----------|---------|
| Income Voucher      | 10        | 71.4    |
| Expenditure Voucher | 14        | 100.0   |
| Adjustment Voucher  | 12        | 85.7    |

Source: Analysis of Primary Data.

#### iii. Books of Account Maintained

Table-4 indicates that all of the public universities (100 percent) under the study prepared to cash book, ledger, cheque issue register, income tax register for contractors, and advanced register whereas, 92.9 percent of them prepared budget register, and only 71.4 percent of them are prepared income tax register for employees.

| Categories                         | Frequency | Per cent |
|------------------------------------|-----------|----------|
| Cash Book                          | 14        | 100.00   |
| Ledger                             | 14        | 100.00   |
| Cheque Issue Register              | 14        | 100.00   |
| Income Tax Register for Contractor | 14        | 100.00   |
| Budget Register                    | 13        | 92.9     |
| Advance Register                   | 14        | 100.00   |
| Income Tax Register for Employees  | 10        | 71.4     |

Table 4: Prepared Books of Account

#### iv. Financial Statements

Table-5 demonstrates that most of the public universities (92.9 percent) under the study prepared receipts and payments account, and bank reconciliation statement. According to the World Bank (2007), statement of cash receipts and payments is presented in the formats inconsistent with the IPSAS. Income and expenditure account prepared only half (50 percent) of the universities under the study. The balance sheet do not prepare by any university. Wilson, Reck, and Kattelus (2010) suggested that public colleges and universities required to the prepare statement of net assets, the revenues, expenses, and change in net assets, and the statement of cash flows.

#### Table 5: Financial Statements

| Categories                     | Frequency | Per cent |
|--------------------------------|-----------|----------|
| Receipts and Payment Account   | 13        | 92.9     |
| Income and Expenditure Account | 7         | 50.0     |
| Bank Reconciliation Statement  | 13        | 92.9     |
| Balance Sheet                  | 0         | 00       |

Source: Analysis of Primary Data.

Source: Analysis of Primary Data.

#### v. Software used to Maintain Accounts

Table-6 reveals that all of the agricultural universities (100 percent), most of the general universities (75 percent), and the majority of engineering

(67 percent), and science and technology (60 percent) universities under the study are used software to maintain accounts. In the era of globalization and technological development, it is annoying.

Table 6: The distribution of Software used to maintain Accounts

| Category of University | Software is used to Maintain Accounts |           | Total      |
|------------------------|---------------------------------------|-----------|------------|
| Calegory of Oniversity | Yes                                   | No        | TOLAI      |
| General                | 3.0 (75%)                             | 1.0 (25%) | 4.0 (100%) |
| Engineering            | 2.0 (67%)                             | 1.0 (33%) | 3.0 (100%) |
| Science and Technology | 3.0 (60%)                             | 2.0 (40%) | 5.0 (100%) |
| Agricultural           | 2.0 (100%)                            | 0 (0%)    | 2.0 (100%) |
| Total                  | 10.0 (71%)                            | 4.0 (29%) | 14.0(100%) |

Source: Analysis of Primary Data.

vi. Valuation of Fixed Assets

Table-7 demonstrates that most of the engineering (67 percent), and science and technology (60 percent) universities under the study are valued fixed assets, only one-fourth of general universities are maintained the same. No agricultural universities maintain the value of fixed assets. Governmental Accounting Standards Board Statement (GASBS) 34 suggested to depreciating other than inexhaustible or infrastructure assets. So valuation and recording fixed assets is must fulfill the requirement of GASBS 34.

| Category of University | Value of Fixed Assets is Recorded |            | Total      |
|------------------------|-----------------------------------|------------|------------|
| Calegory of Oniversity | Yes                               | No         | TOLA       |
| General                | 1.0 (25%)                         | 3.0 (75%)  | 4.0 (100%) |
| Engineering            | 2.0 (67%)                         | 1.0 (33%)  | 3.0 (100%) |
| Science and Technology | 3.0 (60%)                         | 2.0 (40%)  | 5.0 (100%) |
| Agricultural           | 0 (0%)                            | 2.0 (100%) | 2.0 (100%) |
| Total                  | 6.0 (43%)                         | 8.0 (57%)  | 14.0(100%) |

#### Table 7: The distribution of Value of Fixed Assets

#### vii. Debt Receipts and Payments Account

Table-8 express that most of the engineering (67 percent), and science and technology (60 percent) universities under the study are prepared debt receipts and payments account, only one-fourth of general universities are maintained the same. Half of the agricultural universities are maintained debt receipts and payments account. According to Wilson et al. (2010, p.

#### Source: Analysis of Primary Data.

668), the loan activities should be operated on a selfsustaining basis. The repayment of loans and the interest received on loan are deposited and are available for lending to other eligible persons. To achieve the above objective, every university should maintain debt receipts, and payments account separately.

| Category of University | Debt Receipts and Payments<br>Account is Maintained |           | Total       |
|------------------------|---|-----------|-------------|
|                        | Yes   | No        |             |
| General                | 1.0 (25%)   | 3.0 (75%) | 4.0 (100%)  |
| Engineering            | 2.0 (67%)   | 1.0 (33%) | 3.0 (100%)  |
| Science and Technology | 3.0 (60%)   | 2.0 (40%) | 5.0 (100%)  |
| Agricultural           | 1.0 (50%)   | 1.0 (50%) | 2.0 (100%)  |
| Total                  | 7.0 (50%)   | 7.0 (50%) | 14.0 (100%) |

#### viii. Descriptive Statistics of FRCI

Evident from table-9, mean FRCI is 78.10 which is a satisfactory index, but there is a high deviation of FRCI among the universities as high standard deviation (7.13) and a large volume of range (20). The variation implies that the mean is not able to represent the overall scenario due to the high standard deviation of FRCI among the universities. Statistical results indicate that though mean index is satisfactory, but it's not the scenario for some universities under the study. Some universities are not up to the mark regarding practices of financial reporting.

| Mean               | 78.10 |
|--------------------|-------|
| Maximum            | 86.67 |
| Minimum            | 66.67 |
| Range              | 20.00 |
| Standard Deviation | 7.13  |
| Standard Error of  | 1.91  |
| Mean               |       |

Source: Analysis of Primary Data.

#### b) Results of Regression Model

In table-13 the estimated value for University category is .955, and its t-value is .726 with p-value is 0.485, the universities size is -0.007 and its t-value is -

Source: Analysis of Primary Data.

2.243 with p-value is 0.049, and the universities financial activities is .267 and its t-value is 2.890 with p-value is 0.016. Although universities' size and activities are significant at 5 percent levels of significance, the university category is insignificant at the same significant level. The variance inflation factor (VIF) values for all three independent variables are less than five which indicate that the data is free from multi-collinearity. Upon review of the correlation matrix (table-13), the highest value is 0.276 which is much lower than 0.7±.1. The result of correlation matrix testimony that there is no variable with a higher correlation in the data set. The Durban Watson test statistics value (table-11) is 2.326 which are in a normal range of 1.5 to 2.5 (Field, 2009). So the statistical result suggested that there is no autocorrelation. The histogram indicates that the data set are normally distributed. The R<sup>2</sup> value for this model is 0.618, and AdjR<sup>2</sup> value is 0.503 (table-11). Therefore, the predictor variables can explain about 61.8 percent of the total variation by R<sup>2</sup> and about 50.3 percent of the total variation by AdjR<sup>2</sup>.

FRCI=71.990-0.007UNVSIZ+0.267FINACT+0.955UNVCAT

#### Table 10: Regression Coefficients

| Model      | Regression<br>Coefficients |        |      | Collinearity Statistics |       |
|------------|----------------------------|--------|------|-------------------------|-------|
|            | В                          |        |      | Tolerance               | VIF   |
| (Constant) | 71.990                     | 12.933 | .000 |                         |       |
| Size       | 007                        | -2.243 | .049 | .918                    | 1.089 |
| Financial  | .267                       | 2.890  | .016 | .965                    | 1.037 |
| Activities |                            |        |      |                         |       |
| Category   | .955                       | .726   | .485 | .892                    | 1.122 |

a. Dependent Variable: FRCI

Source: Primary data collected through a semi-structured questionnaire

| Table 1 | 11: Model S | Summarv |
|---------|-------------|---------|
|---------|-------------|---------|

| Model | R       | R Square | Adjusted R Square | Std. Error of the<br>Estimate | Durbin-<br>Watson |
|-------|---------|----------|-------------------|-------------------------------|-------------------|
| 1     | .786(a) | .618     | .503              | 5.02562                       | 2.326             |

a. Predictors: (Constant), Total Budget in Million Taka, Seat at Undergrad, Category of University

b. Dependent Variable: FRCI

#### Table 12: ANOVAª

|   | Model      | Sum of Squares | df | Mean Square | F     | Sig.              |
|---|------------|----------------|----|-------------|-------|-------------------|
|   | Regression | 408.181        | 3  | 136.060     | 5.387 | .018 <sup>b</sup> |
| 1 | Residual   | 252.568        | 10 | 25.257      |       |                   |
|   | Total      | 660.749        | 13 |             |       |                   |

a. Dependent Variable: FRCI

b. Predictors: (Constant), Category of University, Total Budget in Million Taka, Seat in Undergrad

## Table 13: Correlations

|                     |                              | FRCI  | Seat in<br>Undergrad | Total Budget in<br>Million Taka | Category of<br>University |
|---------------------|------------------------------|-------|----------------------|---------------------------------|---------------------------|
|                     | FRCI                         | 1.000 | 485                  | .590                            | .376                      |
|                     | Seat in Undergrad            | 485   | 1.000                | .025                            | 276                       |
| Pearson Correlation | Total Budget in Million Taka | .590  | .025                 | 1.000                           | .172                      |
|                     | Category of University       | .376  | 276                  | .172                            | 1.000                     |
|                     | FRCI                         |       | .039                 | .013                            | .093                      |
| Sig. (1-tailed)     | Seat in Undergrad            | .039  |                      | .466                            | .170                      |
| Sig. (1-tailed)     | Total Budget in Million Taka | .013  | .466                 |                                 | .278                      |
|                     | Category of University       | .093  | .170                 | .278                            |                           |
| Ν                   | FRCI                         | 14    | 14                   | 14                              | 14                        |
|                     | Seat in Undergrad            | 14    | 14                   | 14                              | 14                        |
|                     | Total Budget in Million Taka | 14    | 14                   | 14                              | 14                        |
|                     | Category of University       | 14    | 14                   | 14                              | 14                        |

# III. Conclusion

The objective of public sector accounting is to ensure proper utilization of resources for earmarked purposes as well as maintain transparency, accountability, reliability, and fairness. Bangladesh is at the developing stage of increasing transparency of accounting information in the government sector. The objective of the study is to find out the practices of accounting recording and reporting of public universities in Bangladesh. A dichotomous procedure was used to measure the compliance index of recording and reporting of financial transactions. Both descriptive and inferential statistical analysis made through SPSS. Half of the universities under the study is not prepared income and expenditure account though GASB guidelines suggested preparing the statement of revenue, expenditure and changes in net assets. A mentionable part of the universities under the study is not valued fixed assets and maintain the record of fixed assets though GASB 34 suggested maintaining the record of fixed assets. On the other hand, the same scenario in the case of debt receipts and payments account. FRCI (78.10) is satisfactory but not outstanding in public universities of Bangladesh. There is a deviation of FRCI among the universities under the study. Regression result discovered that the predictor variables could explain about 61.8 percent of total variation by R<sup>2</sup> and about 50.3 percent of total variation by AdjR<sup>2</sup>. The above results lead to the conclusion that there is a significant relationship between universities' size and FRCI, and between financial activities of universities and FRCI but there is no significant relationship between university category and FRCI. Thus, the hypothesis H1 and H2 rejected, and H3 accepted at 5 percent level of significance. Considering related and relevant literature, and analyses and discussions, finally it is suggested to prepare books of account and financial reporting of public universities based on international standards.

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# Appendix-1

List of book keeping and financial reporting compliance information

| No. | Information Items  |
|-----|--|
| 1.  | Followed cash basis of accounting  |
| 2.  | Prepared voucher after approval of file for receipt, payment or adjustment |
| З.  | Maintained cash book   |
| 4.  | Maintained ledger  |
| 5.  | Maintained cheque issue register   |
| 6.  | Maintained income tax register for contractor                              |
| 7.  | Maintained budget register   |
| 8.  | Maintained advance register  |
| 9.  | Maintained income tax register for employees                               |
| 10. | Prepared receipts and payments account                                     |
| 11. | Prepared income and expenditure account                                    |
| 12. | Prepared bank reconciliation statement                                     |
| 13. | Prepared balance sheet   |
| 14. | Value of fixed assets is recorded  |
| 15. | Debt receipts and payments account is prepared                             |

Source: Review of related literature