Forensic Accounting Techniques and Procurement Practices in Federal Government Parastatals of Nigeria

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Abstract

**Purpose:** The application of forensic accounting techniques in public procurement practices helps to maintain value for money. Loss attributable to fraud in the public sector environment due to leakages in procurement practices, which in turn affected the economic growth and development of the nation. Evidence from literature showed that many public sector of Nigeria have not deployed forensic accounting techniques in deriving maximum value from government spending. Hence, the study investigated the effect of forensic accounting techniques on procurement practices in public sector of Nigeria. This study therefore examines the effect of forensic accounting techniques on procurement practices in Federal Government parastatals in Nigeria. The study adopted survey research design.

**Methodology:** The population of the study was 5 federal government agencies. Purposive sampling technique was used to select 2 agencies. The target population of the study was 131 accountants in the two agencies chosen- Nigeria Port Authority and Nigeria Civil Aviation Authority. Total enumeration was adopted. A validated and structured questionnaire was used to administer 131 copies of the questionnaire to the respondents. 126 copies were retrieved which represented 96% retrieval rate. The Cronbach alpha reliability coefficients ranged from 0.740 – 0.892. The data were analyzed using descriptive and inferential (multiple regression) statistics at 5% level of significant.

**Findings:** The result found that forensic accounting techniques had significant effect on value for money practice in public sector of Nigeria (Adj. $R^2 = 0.299; F (6, 125) = 14.352, p < 0.05$).

The result also found that forensic accounting techniques had positive significant effect on procurement practices (Adj. $R^2 = 0.270, F (6, 125) = 12.562, p <0.05$). The study concluded that forensic accounting techniques influenced value for money practices (measured by procurement practices) in federal public sector of Nigeria.

**Recommendations:** The study therefore recommended that government should formulate policy that will mandate the use of forensic accounting techniques in order to avoid leakages and achieve value for money in government businesses.

**Keywords:** Forensic Accounting Techniques, Procurement Practices, Public Sector, Value for Money Practices
1.0 INTRODUCTION

It is often said that beauty is indeed in the eyes of the beholder, this can be the situation of value too. This is based on the fact that we see things differently and from different perspective, this therefore makes value for money especially in the public sector and fraud practices a contemporary issue for discussion. Dada and Jimoh, (2020) opined that fraudulent diversion of public funds has been in existence for along time in Nigeria and if not curbed, might result to worse state of the economy than one we are currently experiencing. Eze and Okoye, (2019) posited that different measures have been implemented by the federal government to lessen, if possible eliminate series of fraudulent activities, but still its existence keeps extending which makes the general public lose confidence in the government and even the country. Esu and Inyang, (2019) opined that public sector in Nigeria has suffered setbacks largely due to ineffective and inefficient management, adding that there is a general opinion that most of the public enterprises have failed to deliver on the purposes for which they were established. This supports the assertion of Tokunboh, (1990) that management ineffectiveness and inefficiency have been found to be the bane of the Nigerian public sector.

Forensic accounting according to Crumbley, Heitger and Smith (2015) is the specialty practice area of accounting that describes engagements that result from actual or anticipated disputes or litigation. Forensic means suitable for use in a court of law and it is with that standard and potential outcome that forensic accountants generally have to work. It further explained that forensic accounting and fraud investigation methodologies are different from internal auditing. Sule, Ibrahim and Sani (2019), reiterates that forensic means relating to, used in or appropriate for courts of law or for public discussion or argumentation while accounting means a system that provides quantitative information about finances. Forensic accounting therefore is the application of accounting skills to provide quantitative financial information about matters before the courts (Mclaren & Trefanen, 2012).

Evidence from Nigeria as reported in the study of Azih and Okoli (2019) shows that forensic accounting practice is an important tool used for fraud detection in public sectors in Nigeria. The administrative competence of performance of some public sectors in Nigeria has been faulted by poor credibility of some of these ministries/departments/agencies. There are over estimation of government projects, cases of abandoned projects, payment of salaries to ghost workers amongst others. Some of these projects mobilization fees have been paid for and yet to be executed. Achua (2009) explained that serious consideration is being given to the need to be more accountable for the vast amount of investment in resources at the command of government, which exercises administrative and political authority over the actions and affairs of political units of people.

Blessing, (2015) stated that major financial frauds from the past and the beginning of this century have made compulsory the need for deeper investigation of irregularities in the area of financial reporting. In many quarters, forensic accounting/investigation is equated to financial audit but they appear to be miles apart. Forensic accounting arises from the effect and cause of fraud and technical errors made by human and it is usually described as the integration of accounting and auditing skills with investigative techniques and professional skepticism. According to Nosiri, Uwakwe, Nnenna and Mary-fidelis (2020), forensic accounting can be described as the application of financial skills and investigative mentality to unsettled issues relating to poor practice of value for money, conducted within the context of rules of evidence. As a result of this foregoing, the present study seeks to determine the relevance of forensic accounting techniques to
value for money practices in federal government ministries/departments/agencies of Nigeria.

Statement of the Problem

In recent times, several incidences of fraud have been experienced both in the public sector and private sector of the economy. These in no doubt are committed under the watch of the internal auditors of those organizations either privately owned or public. It suffices to say that the independent of the internal auditor is not guaranteed because he works as an employee of the government or organization. Then come the idea of external auditors, yet frauds are still being committed on a daily basis. The scenario mentioned indicates that fraudulent practices become inevitable where necessary measures are not put in place.

Asusu, (2019) observe that incidence of fraudulent activities in Nigeria is increasing especially in the public sector and they argued that these activities are mostly perpetrated through the procurement process. This suggest that the principle of value for money as opined by PwC, (2021) with regards to economy which ensure the least purchase price for goods and services at good quality is in jeopardy. This is one of the reasons Kasum, (2009) also said the continuation of financial irregularities through procurement are becoming the specialty of both private and public sector in Nigeria as individual perpetrates fraud and corrupt practice according to the capacity of their office.

Adegbie and Fakile, (2012) posited that forensic accounting technique is a financial strategy to curb and resolve economic and financial crimes in Nigerian economy. Mukoro, Yamusa and Faboyede (2013) observed that forensic accountants play significant role in curbing crime and corrupt practices with regards to economy in any public sector since they provide the mechanism to hold people accountable, such that those who manage resources in a fiduciary capacity do not easily abuse that trust without detection. It now become pertinent based on the problems identified above for this study to investigate the relevance of forensic accounting techniques on value for money practices (measured by procurement practices) in federal government ministries/departments/agencies of Nigeria.

The main objective of this study was to investigate the effect of forensic accounting techniques on value for money practices in the public sector of Nigeria. The specific objective was to investigate the effect of forensic accounting techniques on procurement practices in federal government parastatals in Nigeria. Fraud and fraudulent activities are becoming more common in Nigeria. This study addressed two issues which exist as gap in literature sited above. Firstly, it was found that forensic accounting practice measures used in literature (Eze & Okoye, 2019; Olowolaju, 2018 and Safiyanu, Saifullahi, Armaya’u, 2019) include only three major proxies which are investigation of fraud, expert witnessing and litigation. However, the present study included surprise cash count audit as another proxy which is adjudged in literature to be a veritable technique in curbing fraud in organizations. Secondly, the present study focus on investigation of the effect of forensic accounting techniques on value for money practices in the public parastatals (federal level) of Nigeria, this differs from what has been done in prior studies as their focus was on either private sector or state parastatals of the public sector of Nigeria, hence the need for this study.
2.0 LITERATURE REVIEW

Forensic Accounting Techniques

Forensic accounting is the application of accounting, auditing, and investigation abilities to produce a thorough report on a fraud case that may be used as evidence in a court of law or an administrative process. According to Taiya, Mbasiti, Yohanna and Ojaide (2021) forensic accounting is a specialty field of accounting that deals with the detection of financial wrongdoing and the preparation of reports suitable for use in a court of law.

Singleton and Singleton (2010), are of the opinion that in performing tasks, forensic accountants use economic theories, business information, financial reporting systems, accounting and auditing standards and procedures, data management and electronic discovery, data analysis techniques for fraud detection, evidence gathering and investigative techniques, and litigation processes and procedures (Erasmus, 2021).

Forensic accounting technique is appropriate for legal examination because it provides the highest level of certainty, as well as the newly accepted connotation of having been arrived at in a scientific manner and delivering the necessary conclusions in resolving disputes (Akintoye, 2008). According to Jafaru, (2011) forensic and investigative accounting should be viewed as the application of financial abilities and an investigative attitude to address unsolved difficulties within the context of the rules of evidence. Forensic accounting is a combination of financial abilities and a sharp investigative mindset that allows you to assess the data you have at your disposal and come up with an explanation. From the perspective of an economist, Mukoro, Yamusa, and Faboyede (2013) believe they are particularly effective at estimating economic loss, damage, and social harm because they are familiar with the assumptions, algorithms, and calculations in econometric models and opportunity cost scenarios, and can measure and quantify things like loss of goodwill and reputation.

Procurement Practices (Economy)

Economy in a simple manner is spending less. It is concerned with minimizing the cost of inputs used for an activity having regard to appropriate quality. That is, it has to do with the acquisition of resources in appropriate quality and quantity at minimum cost. Kalubanga & Kakwezi (2013), Nwosu and Mshelia (2015), stated that the term "economy" refers to the terms and conditions under which the government obtains suitable quality and quantity financial, human, and physical resources at the lowest possible cost.

The term "economy" refers to acquiring the correct amount of something at the right time, in the right place, for the right price. Due to a lack of efficiency in collecting resources, the cost of products or services of adequate quality, quantity, or timeliness may be greater than necessary. VfM is now a fundamental criterion against which procuring and disposing entities must defend procurement outcomes in the context of public procurement. Public service providers must also show their communities that they are providing greater value for money by addressing not only efficiency but also effectiveness in delivery Kalubanga & Kakwezi (2013). Public fund or financial management is the process of planning, organizing, procurement and utilization of government financial resources and also formulation suitable policies in order to achieve the expectations of the public. It is a link between community’s expectation and actual results (Ugwu 2021).
Theoretical Framework

This study was anchored on two of theories reviewed which are Fraud diamond and Fraud star. The concept of Value for Money practice: procurement practices (economy) in public sector organisations advocates that public funds should be put to the best possible use and that those who conduct public business should be accountable to the economical, efficient and effective management of the resources entrusted to them. The value for money practice in the public sector can be impaired by fraud and corruption.

Fraud diamond and Fraud star are framework commonly used in auditing to explain the motivation behind an individual's decision to commit fraud and it outlines four components (opportunity, pressure, capacity and rationalization) that contribute to increasing the risk of fraud. In which a fraudster who understands and is capable of exploiting internal control weaknesses and using the position; function or authorized access to the greatest advantage. Fraud star concept is an expansion of fraud diamond theory, in which an appropriate punishment is seen as a factor that can affect fraudster’s decision of committing the crime or not especially in the public sector.

3.0 METHODOLOGY

The research design adopted for this study was survey research design where qualitative method of data collection and analysis was used to investigate the effect of forensic accounting techniques (represented by Investigation of Fraud, Expert Witness, Litigation Services and Surprised Cash Count) on value for money practices (represented by Procurement Practices in public sector of Nigeria. Similar studies (Ugwu, 2021; Okoye, Adeniyi & James, 2019; Eze & Okoye, 2019) have adopted this design in literature. The population of this study comprised of all Accountants above level 8 in the Ministries, Department and Agencies (MDAs) of Nigeria that are federally owned with their office in Lagos state. These were choosing due to its large size of the target population and because the study was constrained by time to investigate all federally owned MDAs in all states. In selecting the respondents, purposive sampling techniques was used. The purposive sampling was used to pick only those agencies that gave audience and access to the researcher for the purpose of gathering data that gave the best information in order to satisfy the research objectives in question. Therefore, only Nigeria Port Authority (NPA) and Nigeria Civil Aviation Authority (NCAA) were used as the sample frame for the study due to possibility of accessibility. The accountants in these two agencies that are in Lagos are 94 and 37 respectively. As a result, total enumeration was used, hence the sample size of 131 accountants. This study used primary source of data (questionnaire) to explore the relevance of forensic accounting techniques on value for money in federal public sector organization in Lagos state. The result of the Cronbach Alpha for each of the variable is presented and evidenced from the table below; it is safe to conclude that the instrument reliably and consistently measures what it intends to measure. The instrument used in this study was considered reliable if the Cronbach’s alpha of its scales are or above 0.7.
Table 1: Reliability of Variables’ Measurements

<table>
<thead>
<tr>
<th>Variables of Study</th>
<th>Cronbach’s Alpha</th>
<th>Number of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigation of fraud</td>
<td>0.868</td>
<td>6</td>
</tr>
<tr>
<td>Expert Witnessing</td>
<td>0.892</td>
<td>5</td>
</tr>
<tr>
<td>Litigation Services</td>
<td>0.790</td>
<td>5</td>
</tr>
<tr>
<td>Surprise Cash Count Audit</td>
<td>0.845</td>
<td>5</td>
</tr>
<tr>
<td>Procurement practices</td>
<td>0.813</td>
<td>5</td>
</tr>
</tbody>
</table>

Source: Researcher’s Pilot Study (2022)

The study employed quantitative method of analysis with the aid of SPSS software. The study employed survey research design to examine the effect of forensic accounting techniques on value for money practices. For hypotheses tested in this study, simple, multiple regression method of analysis was employed and the tests was conducted at 5% significance level.

A Priori Expectation

It was expected that the measures of forensic accounting techniques would have positive effects on value for money practices in the public sector organization of Nigeria. Thus, $\beta_{1-4} > 0$

Table 2: A-Priori Expectation

<table>
<thead>
<tr>
<th>Variables</th>
<th>Coefficients Sign</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigation of fraud</td>
<td>$\beta_1 &gt; 0$</td>
</tr>
<tr>
<td>Expert Witnessing</td>
<td>$\beta_2 &gt; 0$</td>
</tr>
<tr>
<td>Litigation Services</td>
<td>$\beta_3 &gt; 0$</td>
</tr>
<tr>
<td>Surprise Cash Count Audit</td>
<td>$\beta_4 &gt; 0$</td>
</tr>
</tbody>
</table>

Source: Researcher’s Pilot Study (2022)

4.0 FINDINGS

Research Hypothesis

Forensic accounting techniques have no significant effect on procurement practices in federal government parastatals in Nigeria.
Table 3: Regression Analysis for Model

<table>
<thead>
<tr>
<th>Predictors</th>
<th>Coefficients</th>
<th>Std. Error</th>
<th>T</th>
<th>prob</th>
<th>Collinearity Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Constant)</td>
<td>0.780</td>
<td>0.594</td>
<td>1.312</td>
<td>0.192</td>
</tr>
<tr>
<td>IF</td>
<td>0.691</td>
<td>0.142</td>
<td>4.872</td>
<td>0.000</td>
<td>0.807</td>
</tr>
<tr>
<td>LS</td>
<td>0.009</td>
<td>0.114</td>
<td>0.080</td>
<td>0.936</td>
<td>0.766</td>
</tr>
<tr>
<td>EW</td>
<td>-0.069</td>
<td>0.159</td>
<td>-0.438</td>
<td>0.662</td>
<td>0.689</td>
</tr>
<tr>
<td>SSC</td>
<td>0.312</td>
<td>0.096</td>
<td>3.248</td>
<td>0.002</td>
<td>0.735</td>
</tr>
</tbody>
</table>

| R          | 0.542            |
| R²         | 0.293            |
| Adjusted R²| 0.270            |
| F-statistics| 12.562          |
| Probability| 0.000            |

Dependent variable: Procurement practices (PP) *significant at 5%

Source: Researcher’s Study (2022)

\[
PP_i = \alpha_0 + \beta_1 IF_i + \beta_2 EW_i + \beta_3 LS_i + \beta_4 SCC_i + \varepsilon_i \].................Model 1

\[
PP_i = 0.780 + 0.691 IF_i + 0.009 LS_i - 0.069 EW_i + 0.312 SCC_i + \varepsilon_i \].................

Interpretation

Table 3 represents the regression model 1 hypothesis testing the effect of forensic accounting techniques on procurement practices in federal government parastatals in Nigeria. The multicollinearity test showed that data set does not have disturbance that can affect the statistical inference of the study. The result indicates that Investigation of Fraud (IF), Litigation services (LS), Surprise Cash Count Audit (SCC) had positive effect on procurement practices in federal government parastatals in Nigeria. This is indicated by the parameters of the coefficients which are \( \beta_1 = 0.691 \) and \( \beta_2 = 0.009 \) and \( \beta_4 = 0.312 \). This is consistent with a prior expectation of the study which states that Forensic accounting techniques will exert a positive effect on procurement practices in federal government parastatals in Nigeria. Although Expert witnessing (EW) negatively affected procurement practice and this is also indicated by the coefficient \( \beta_3 = -0.069 \), this is not in line with the prior expectation of the study.

The direction of the coefficient indicates that, for every deployment of Investigation of Fraud (IF) technique, there is a predicted increase of 0.691 at a higher level in the procurement practices in federal government parastatals in Nigeria. This indicates that deployment of Investigation of Fraud Technique was likely to indicate greater Procurement practices. The probability of t- statistic is 0.000 indicating that Investigation of Fraud (IF) was a significant predictor in the model. Also, Litigation services (LS) technique predicted increase of 0.009 at a higher level in the procurement practices in federal government parastatals in Nigeria. This indicates that deployment of Litigation services (LS) technique was likely to indicate greater Procurement practices. The probability of t- statistic is 0.936. Although, the result indicate that Litigation services (LS) technique was not a significant predictor in the model.
Furthermore, Expert witnessing will bring about 0.069 decrease in procurement practices in federal government parastatals in Nigeria. This indicates that deployment of Expert witnessing (EW) technique was likely to indicate lesser good Procurement practices. The probability of t-statistic is 0.662. Although, the result revealed that Litigation services (LS) technique was not a significant predictor in the model. However, a change in Surprise Cash Count Audit (SCC) will lead to an increase of 0.312 in procurement practice. This indicates that deployment of Surprise Cash Count Audit (SCC) technique was likely to indicate greater Procurement practices. The probability of t-statistic is 0.002 indicated that Surprise Cash Count Audit technique was a significant predictor in the model.

The adjusted $R^2$ which is the coefficient of determination is 0.270 (27%), this suggest that 27% variation in procurement practices in federal government parastatals in Nigeria can be explained by Forensic accounting techniques proxied by Investigation of Fraud (IF), Litigation services (LS), Surprise Cash Count Audit (SCC) and Expert witnessing (EW) while the remaining 73 % is caused by other variables not captured in the model. This is a moderate effect and evidence of causality. The result is further confirmed by the probability of the F-statistics which measured the effect of the model. The probability stood at 0.000 which is less than 0.05 level of significance adopted for this study.

**Decision Rule**

At the 0.05 level of significance, the F-statistics is 12.562, where the p-value is 0.000 which is less than 0.05 level of significance adopted for this study. This implies that null hypothesis one that Forensic accounting techniques have no significant effect on procurement practices in federal government parastatals in Nigeria was not accepted. Therefore, from the regression estimates, Investigation of Fraud (IF), Litigation services (LS), Surprise Cash Count Audit (SCC) and Expert witnessing (EW) significantly affects procurement practices in federal government parastatals in Nigeria.

**Discussion of Findings**

The objective was set out to investigate the effect of forensic accounting techniques measured by Investigation of Fraud (IF), Litigation services (LS), Surprise Cash Count Audit (SCC) and Expert witnessing (EW) on procurement practices in federal government parastatals in Nigeria. From the result of the regression analysis carried out in model one, it was discovered that overall, forensic accounting techniques have significant effect on procurement practices in federal government parastatals in Nigeria. Furthermore, forensic accounting techniques measured by Investigation of Fraud (IF), Litigation services (LS), Surprise Cash Count Audit (SCC) have positive significant effect on procurement practices in federal government parastatals in Nigeria.

The finding of the study aligns with the studies of Bassey 2018; Erasmus 2021; Gbegi and Adebisi 2015, Tapang and Ihendinihu, 2020; the study of Tapang and Ihendinihu, (2020) revealed that forensic accounting services have a major impact on check fraud, credit card fraud, and mortgage fraud, according to the findings, a bank that wants to thrive while minimizing unethical practices must provide adequate resources to appropriately perform forensic accounting services throughout its many departments. The finding however does not align with the study of Akhidime and Uagbale-Ekatah 2014; Nwosu and Mshelia 2015. However, Expert witnessing has a negative impact on procurement practices in federal government parastatals. This is not in line with the *a priori* expectation that all of forensic accounting technique will have positive effect on
procurement practices in federal government parastatals.

This findings does not align with Erasmus 2021; Gbegi and Adebisi 2015, Tapang and Ihendinihu, 2020; the negative effect of expert witnessing on procurement practices in federal government parastatals can be traceable to the opinion of some of the respondents who in their opinion believe that although value for money practice can guarantee economic procurements of goods in public agencies, however, the Involvement of expert witnessing in fraud cases has minimal effect in reducing financial misappropriation in the Nigerian public sector. The finding aligns with the findings of Akhidime and Uagbale-Ekatah 2014; Nwosu and Mshelia 2015, Akhidime and Uagbale-Ekatah (2014) opined that Forensic accounting in Nigeria is at its infancy stage and lacking statutory support and although its relevance in unraveling complex official corruption is on the increase in Nigeria, it nevertheless has no statutory backing and has no significant impact against corruption, fraud and financial crime in Nigeria. The greediness of high-profile government officials and poor standard of living for the lower rank officers are the major factors linked to fraudulent practices in the Nigerian public sector, this in turn affect the effectiveness of good procurement practices in Nigerian Public Sector.

The finding of the study is supported by the fraud start theory which advocates appropriate punishment for any form of fraudulent activity perpetrated by procurement officials in the public sector as this will likely discourage fraud and increase good procurement practices, transparency and accountability in the public sector. Erasmus and Ibezim, (2021) noted that as an expert witness, forensic accountants present complex business issues, analyze, and summarize financial transactions in a logical and understandable manner, supported by cogent and verifiable evidence, in order to assist attorneys in prosecuting financial and economic fraudsters or resolving civil disputes.

Although the adjusted r square indicates that the measures of forensic accounting techniques are not strong enough to explain the variations in procurement practices in federal government parastatals in Nigeria, this might be due to the fact that there are other factors and determinants of procurement practice in public sector not captured by the model. Some of these include corruption, poor standard of living, and poor internal control in the public sector. However, the probability of the F statistics has shown that despite the fact that forensic accounting technique might not be sufficient enough to explain the variations in procurement practice in public sector; forensic accounting technique exacts a significant effect procurement practices in federal government parastatals in Nigeria. This implies that forensic accounting technique is an important determinant of good procurement practices in federal government parastatals in Nigeria. From the findings, the increase in the measures of forensic accounting technique should lead to improvement in procurement practices in federal government parastatals in Nigeria. Procurement practices which represents economy in value for money (VFM) practice is concerned with acquiring resources of suitable quality and quantity at the lowest possible cost (buying resources at the right time at the favourable price, in the right quality and quantity (Nwosu & Mshelia 2015) VfM is now a fundamental criterion against which procuring and disposing entities must defend procurement outcomes in the context of public procurement. Public service providers must also show their communities that they are providing greater value for money by addressing not only efficiency but also effectiveness in delivery (Kalubanga & Kakwezi 2013)
5.0 CONCLUSION AND RECOMMENDATIONS

The study had examined the effect of forensic accounting techniques on value for money practices in federal government parastatals in Nigeria. All the independent variables together, which were Investigation of Fraud (IF), Litigation services (LS), Surprise Cash Count Audit (SCC) and Expert Witness have statistical significance on the dependent variable which was procurement practices (economy).

Findings of this study therefore provided insight into the effect of forensic accounting techniques on value for money practices. It further provided an insight as to the extent to which all independent variables together affects the dependent variable and also provided affirmation of the extent of variations on the dependent variable caused by independent variables all together covered, as depicted by the Adjusted R square. The study concluded that forensic accounting techniques had a significant positive effect on value for money practices.

The study thus recommends that Government should formulate policy that will mandate the use of forensic accounting techniques in verifying government business transactions. This will signal the beginning of stopping loss of value for money in government businesses and expenditure.

The study further recommended government should engage the use of professionals with prerequisite forensic accounting techniques knowledge in tracking procurement processes to eradicate the fraudulent practices in government business thereby reduces waste and ensures attainment of value for money practices.
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