# International Journal of Supply Chain Management (IJSCM)

### INFLUENCE OF CONTRACT ADMINISTRATION ON PERFORMANCE OF PARASTATALS IN KENYA

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## Influence of Contract Administration on Performance of Parastatals in Kenya

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#### **Abstract**

**Purpose:** The study helped to unearth the influence of contract administration on performance of parastatals in Kenya.

**Methodology:** This study employed descriptive research design. The study reviewed both theoretical and empirical literature and then proposed the research methodology that addressed the gaps identified in literature as well as to validate the statistical hypotheses. The study preferred this method because it allows an in-depth study of the subject. The target population was all the 187 parastatals in Kenya. Questionnaires were administered to collect qualitative and quantitative data from a sample of 127 heads of procurement, who were selected using simple random sampling, from the four strata. After data collection, quantitative data was coded using Statistical Package for Social Science (SPSS) version 22. Data was analyzed through descriptive statistical methods such as means, standard deviation, frequencies and percentage. Inferential analyses were used in relation to correlation analysis and regression analysis to test the relationship between the four explanatory variables and the explained variable.

**Results and conclusion:** The results of regression analysis revealed there is a significant positive relationship between dependent variable and the independent variable. R square value of 0.647 means that 64.7% of the corresponding variation in performance of parastatals in Kenya can be explained or predicted by (management strategy, monitoring and evaluation, shareholder management and conflict resolution) which indicated that the model fitted the study data. The results of regression analysis revealed that there was a significant positive relationship between dependent variable and independent variable at ( $\beta = 0.647$ ), p=0.000 <0.05).

Based on the study findings, the study concludes that performance of parastatals can be improved by management strategy, monitoring and evaluation, shareholder management and conflict resolution. First, in regard to management strategy, the regression coefficients of the study show that it has a significant influence on performance of parastatals.

Unique contribution to theory, policy and practice: The study recommended that public institutions should embrace contract administration so as to improve performance and further



researches should to be carried out in other public institutions to find out if the same results can be obtained.

**Keywords:** Management strategy, monitoring and evaluation, shareholder management and conflict resolution

#### 1.1 INTRODUCTION

Contract administration is the process of monitoring whether the contract parties are complying and performing as per the agreement. It also involves handling of issues that include errors, payment, specifications, policy specifications, as well as any changes that may result in the course of the contract execution (Camén, Gottfridsson & Rundh, 2012). Contract administration entails a process of efficient and systematic management of contract creation, implementation, and analysis in order to maximize financial and operational performance, as well as minimize risks (Stucker, 2011).

Contract administration improves an organization's operational performance as indicated by various measures, such as, quality, flexibility, speed, efficiency and supplier relationship (Cho & Pucick, 2015). Contract administration may be defined as the process that ensures both parties to a contract fully meet their respective obligations as efficiently and effectively as possible, in order to deliver the business and operational objectives required from the contract and in particular to provide value for money (Nguyen, 2013). As a result, developing and managing contracts is a skill required by almost all public sector entities. Rendon (2010) affirm that the quintessence of contract administration evolves proper planning, award, and administration of contracts and the monitoring of providers' performance. Once this is deficient, it increases the risk of endangering value for money (Cropper, 2016).

#### 1.2 Problem Statement

Contract administration is the process of monitoring whether the contract parties are complying and performing as per the agreement. It also involves handling of issues that include errors, payment, specifications, policy specifications, as well as any changes that may result in the course of the contract execution (Camén, Gottfridsson & Rundh, 2012). Contract administration entails a process of efficient and systematic management of contract creation, implementation, and analysis in order to maximize financial and operational performance, as well as minimize risks (Stucker, 2011). Contract administration improves an organization's operational performance as indicated by various measures, such as, quality, flexibility, speed, efficiency and supplier relationship (Cho & Pucick, 2015). Contract administration may be defined as the process that ensures both parties to a contract fully meet their respective obligations as efficiently and effectively as possible, in order to deliver the business and operational objectives required from the contract and in particular to provide value for money (Nguyen, 2013). As a result, developing and managing contracts is a skill required by almost all public sector entities. Rendon (2010) affirm that the quintessence of contract administration evolves proper planning, award, and administration of contracts and the monitoring of providers' performance. Once this is deficient, it increases the risk of endangering value for money (Cropper, 2016).

Vol. 5, Issue No.2, pp 1 - 22 2021



#### 1.3 Objectives of the Study

- i. To examine the influence of management strategy on performance of parastatals in Kenya.
- ii. To establish the influence of monitoring and evaluation on performance of parastatals in Kenya.
- iii. To determine the influence of shareholder management on performance of parastatals in Kenya.
- iv. To evaluate the influence of conflict resolution on performance of parastatals in Kenya.2.0

#### 2.0 LITERATURE REVIEW

#### **2.1 Contract Compliance Theory**

Contract compliance theory is the act of conforming to contract agreements between buyers and sellers. Generally, he purchasing function is held responsible for all reasons of non-compliance. According Aberdeen Group (2016) compliance may be internal or external. Internal compliance can be interpreted as either conforming to the rules in the agreement by purchasing organization such as payment terms and minimum order requirements or in purchasing from agreement only, that is, purchasing by using framework agreements for the entire company (Telgen, 2014).

According to Aberdeen Group (2016) the use of framework agreements for the entire company can assist maintaining high contract compliance and reduction in purchasing costs. This can in turn increase the probability of project success. As far as the projects as concerned, external contract compliance can take up several forms including unavailability of products services or qualified personnel, charging prices different from the contracted prices, or late delivery or delivering products that do not meet the contracted specifications. The theory of contract compliance augurs well with the monitoring and evaluation variable in this study.

#### 2.2 CONTRACT ADMINISTRATION

#### 2.2.1 Management Strategy

Contract administration involves maintaining an updated form of the contract; controlling and managing contract variations; paying the contractor; managing assets; drafting reports; and terminating the contract (Hansson & Longva, 2014). Contract administration, the formal governance of the contract, is concerned with the mechanics of the relationship between the parties.

The implementation of procedures defining the interface between them, and the smooth operation of routine administrative and clerical functions; and contract administration includes such tasks as contract maintenance and change control, charges and cost monitoring, ordering and payment procedures, management reporting, and so on (OGC, 2012)..

#### 2.2.2 Monitoring and Evaluation

Technical contract administration starts with contractor monitoring and evaluation management. This is vital in enabling the contracting organization to ascertain that the contractor is undertaking his duties and fulfilling his obligations in compliance with the contract. This also allows the contracting organization to pinpoint any issues or problems in advance that could arise and offer



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timely solutions (Elsey, 2012). Particularly, the outline of contractor monitoring and acceptance management includes: monitoring, controlling, and evaluating the contractor's performance; evaluating the quantity and quality of services, works, or products delivered; and identifying and handling risks (Cropper, 2015).

#### 2.1.3 Shareholder Management

Contract administration involves managing the contractor relationship with stakeholders. This refers to the actions and initiatives of the contracting company to create and maintain a positive relationship with the stakeholders (Piga & Treumer, 2013). This depends on the mutual trust, understanding, regular communication and timely management of possible problems in the contract. Thirdly, the practice includes contract administration. This procedure involves maintaining an updated form of the contract; controlling and managing contract variations; paying the contractor; managing assets; drafting reports; and terminating the contract (Hansson & Longva, 2014).

#### 2.1.4 Conflict Resolution

Conflict is defined as any action or circumstance resulting from incompatible or opposing needs (Peña-Mora, 2013). A significant characteristic of conflict is that it usually presents two incompatible possibilities at the same time that result in difficulty for either party to make a choice (Fisher, 2014). Cheung and Suen (2002) stated that disputes are inevitable in construction projects and Dispute Resolution Procedures such as litigation, arbitration, mediation, dispute adviser and negotiation are widely practiced. A decision-making model was created using the Analytical Hierarchy Process (AHP) and Multi-Attribute Utility Technique (MAUT). The model comprises four parts: selection criteria, dispute resolution strategies, collection of utility factors and selection criteria weightings. These were gathered from an empirical data collected through an interview survey with selected experts in the field.



#### 2.2 Conceptual Framework

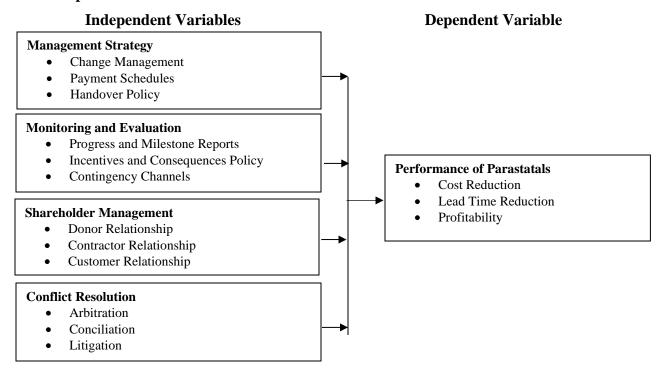


Figure 1: Conceptual framework

#### 3.0 METHODOLOGY

This study employed descriptive research design. The study reviewed both theoretical and empirical literature and then proposed the research methodology that addressed the gaps identified in literature as well as to validate the statistical hypotheses. The study preferred this method because it allows an in-depth study of the subject. The target population was all the 187 parastatals in Kenya. Questionnaires were administered to collect qualitative and quantitative data from a sample of 127 heads of procurement, who were selected using simple random sampling, from the four strata. After data collection, quantitative data was coded using Statistical Package for Social Science (SPSS) version 22. Data was analyzed through descriptive statistical methods such as means, standard deviation, frequencies and percentage. Inferential analyses were used in relation to correlation analysis and regression analysis to test the relationship between the four explanatory variables and the explained variable.

#### 4.0 RESULTS FINDINGS

#### **4.1 Response Rate**

A sample of respondents were interviewed using questionnaires that allowed the study to drop the questionnaires to the respondents and then collect them at a later date when they had filled the questionnaires. A total of 127 questionnaires were distributed to heads of procurement. Out of the population covered, 104 were responsive respresenting a response rate of 82%. This was above the 50% which is considered adequate in descriptive statistics according to (Kothari, 2014).

**Table 1: Response Rate of Respondents** 

Response	Frequency	Percentage	
Actual Response	104	82	
Non-Response	23	18	
Total	127	100%	

#### 4.3 Pilot Study

The cronbach's alpha was computed in terms of the average inter-correlations among the items measuring the concepts. The rule of thumb for cronbach's alpha is that the closer the alpha is to 1 the higher the reliability (Dunn, 2010). A value of at least 0.7 is recommended. Cronbach's alpha is the most commonly used coefficient of internal consistency and stability. Consistency indicated how well the items measuring the concepts hang together as a set. Cronbach's alpha was used to measure realibility. This was done on the four objectives of the study. The higher the coefficient, the more reliable is the test.

**Table 2 Reliability Results** 

Variable	No. of Items	Respondents	α=Alpha	Comment
Management Strategy	9	13	0.893	Reliable
Monitoring and Evaluation	9	13	0.987	Reliable
Shareholder Management	9	13	0.974	Reliable
Conflict Resolution	9	13	0.976	Reliable

#### **4.4 Demographic Information**

This section presents the personal details.

#### 4.4.1 Distribution of Respondents by Gender

The study determined the gender distribution of the respondents. The results summarized in the figure below. The results revealed that majority of the respondent (51%) indicated that they were male, while only (49%) of the respondent indicated that they were female. The percentages may raise the issue of gender equity in public institutions in this country, but that is outside the scope of this study. A study on UK companies found that women and men do not differ in their ability

to perform operational tasks, but rather bring a different perspective to strategic decision making in procurement (Gianakis, 2012).

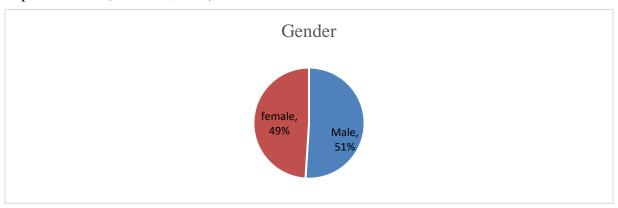


Figure 2: Distribution of Respondents by Gender

#### 4.4.2 Distribution of Respondents by Age

The study determined the distribution of respondents by age. The results summarized in the table below. The results revealed that majority of the respondent (46.2%) were above 50 years old, (24%) were 31-40 years old, while (29.8%) were between 41-50 years. The findings are in agreement with those of Hall (2014) who established that there are two natural age peaks of the early 30s and mid 40s which correlated to employee performance and consequential performance of parastatals.

Table 3: Distribution of Respondents by Age

Years	Frequency	Percent
31-40 Years	25	24.0
41-50 Years	31	29.8
50 Years and above	48	46.2
Total	104	100.00

#### 4.4.3 Distribution of Respondents by Level of Education

The respondents were asked to state their highest level of education and the results revealed that majority of the respondent (51%) indicated that their academic qualification was up to master's level. The result further revealed that (49%) of the respondent indicated that their academic qualification was up to degree level. With majority respondents having degree and above, it is expected that their level of understanding of performance of parastatals is good. This is an indication that the results obtained from respondents interviewed in the present study can be relied upon. These findings concur those of Hatry (2016) who established that majority of who run public procurement are highly educated and that there is evidence linking education and performance in parastatals.

Table 4.: Distribution of Respondents by Level of Education

<b>Education Level</b>	Frequency	Percent	
Undergraduate	51	49	
Post-Graduate	53	51	
Total	104	100	

#### 4.4.4 Distribution of Respondents by Length of Service

The study determined the number of years the respondents had worked in their current office. The respondents were asked to indicate their work duration. The result revealed that majority of the respondents (31.7%) indicated that their work duration was 6-8 years. The result also showed that (30.8%) of the respondent indicated that their work duration was 9 and above years above. The findings of the study are in tandem with literature review by Joiner (2012) who indicated that a duration and experience of employee helps him or her to have better knowledge and skills which contribute to procurement performance.

**Table 5: Distribution of Respondents by Length of Service** 

Length of Service	Frequency	Percent
3-5 Years	39	37.5
6-8 Years	33	31.7
9 Years and above	32	30.8
Total	104	100.0

#### 4.5 Descriptive Statistics

#### 4.5.1 Management Strategy

The first objective of the study was to assess the influence of management strategy on performance of parastatals in Kenya. The respondents were asked to indicate to what extent management strategy influenced performance among parastatals in Kenya. Results indicated that majority of the respondents 27% agreed that it was to a very effective, 25% said that it was effective, 29% said it was somehow effective, while ineffective was at 19%.



Figure 3: Management Strategy



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The respondents were also asked to comment on statements regarding management strategy influence on performance among parastatals in Kenya. The responses were rated on a Likert scale and the results presented in Table 4.6 below. It was rated on a 5-point Likert scale ranging from; 1 = strongly disagree to 5 = strongly agree. The scores of 'strongly disagree' and 'disagree' have been taken to represent a statement not agreed upon, equivalent to mean score of 0 to 2.5. The score of 'neutral' has been taken to represent a statement agreed upon, equivalent to a mean score of 2.6 to 3.4. The score of 'agree' and 'strongly agree' have been taken to represent a statement highly agreed upon equivalent to a mean score of 3.5 to 5.

The respondents were asked to indicate their responses on influence of management strategy on performance of parastatals in Kenya. The results revealed that majority of the respondent with a mean of (4.13) agreed with the statement that change management plays a significant role in cost reduction. The measure of dispersion around the mean of the statements was 0.94 indicating the responses were varied. The result revealed that majority of the respondent as indicated by a mean of (4.27) agreed with the statement payment schedules plays a significant role in cost reduction. The standard deviation for was 0.968 showing a variation. The result revealed that majority of the respondent (4.55) agreed with the statement that handover policy play a significant role in cost reduction. The results were varied as shown by a standard deviation of 0.5.

The average response for the statements on change management plays a great role in reducing lead time was (4.22). The results were varied as shown by a standard deviation of 0.955. The average response for the statements on payment schedules plays a great role in reducing lead time was (4.4). The results were varied as shown by a standard deviation of 0.704. The result revealed that majority of the respondent with a mean of (4.46) agreed with the statement that handover policy plays a great role in reducing lead time. The measure of dispersion around the mean of the statements was 0.787 indicating the responses were varied.

The result revealed that majority of the respondent as indicated by a mean of (4.44) agreed with the statement change management plays a great role in improving profitability. The standard deviation for was 0.786 showing a variation. The result revealed that majority of the respondent (4.21) agreed with the statement that payment schedules plays a great role in improving profitability. The results were varied as shown by a standard deviation of 0.942. The average response for the statements on handover policy plays a great role in improving profitability was (4.01). The results were varied as shown by a standard deviation of 0.81.

The average mean of all the statements was 4.01 indicating that majority of the respondents agreed on management strategy having an influence on performance of parastatals in Kenya. However, the variations in the responses were varied as shown by a standard deviation of 0.81. These findings imply that management strategy was at the heart of the organizations. The findings agree with Kinyanjui (2010) that using management strategy as contract administration practice is a smart move and can reduce expenses significantly.



**Table 6: Management Strategy** 

Statements	Mean	Std. Deviation
Change management plays a great role in cost reduction	4.1	0.94
Payment schedules plays a great role in cost reduction	4.27	0.968
Handover policy plays a great role in cost reduction	4.55	0.5
Change management plays a great role in reducing lead time	4.22	0.955
Payment schedules plays a great role in reducing lead time	4.41	0.704
Handover policy plays a great role in reducing lead time	4.46	0.787
Change management plays a great role in improving profitability	4.44	0.786
Payment schedules plays a great role in improving profitability	4.21	0.942
Handover policy plays a great role in improving profitability	4.11	1.096
Average	4.01	0.81

#### 4.5.2 Monitoring and Evaluation

The second objective of the study was to establish the influence of monitoring and evaluation on performance of parastatals in Kenya. The respondents were asked to indicate to what extent monitoring and evaluation influenced performance of parastatals in Kenya. Results indicated that majority of the respondents 25% agreed that it was to a very great extent, 27% said that it was to a great extent, 35% said it was moderate, while little extent and not all were at 5% and 8% respectively.

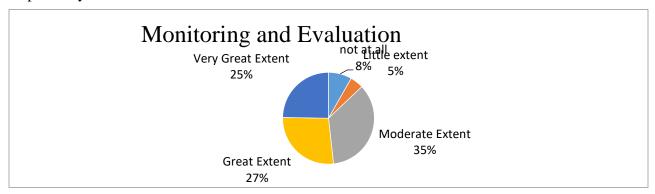


Figure 4: Monitoring and Evaluation

The respondents were also asked to comment on statements regarding monitoring and evaluation on performance of parastatals in Kenya. The results revealed that majority of the respondent with a mean of (3.58) agreed with the statement that progress and milestone reports play a significant role in cost reduction. The measure of dispersion around the mean of the statements was 1.0 indicating the responses were varied. The result revealed that majority of the respondent as indicated by a mean of (3.63) agreed with the statement incentives and consequences plays a significant role in cost reduction. The standard deviation for was 0.9 showing a variation. The result revealed that majority of the respondent (3.6) agreed with the statement that contingency



channels plays a significant role in cost reduction. The results were varied as shown by a standard deviation of 0.7. The average response for the statements on progress and milestone reports plays a great role in reducing lead time was (3.45). The results were varied as shown by a standard deviation of 1.2. The average responses for the statements on incentives and consequences policy plays a great role in reducing lead time was (3.5). The results were varied as shown by a standard deviation of 1.0. The results revealed that majority of the respondent with a mean of (3.61) agreed with the statement that contingency channels play a great role in reducing lead time. The measure of dispersion around the mean of the statements was 0.6 indicating the responses were varied.

The result revealed that majority of the respondent as indicated by a mean of (4.17) agreed with the statement progress and milestone reports plays a great role in improving profitability. The standard deviation for was 0.8 showing a variation. The result revealed that majority of the respondent (3.63) agreed with the statement that incentives and consequences policy plays a great role in improving profitability. The results were varied as shown by a standard deviation of 0.8. The average response for the statements on contingency channels play a great role in improving profitability plays a significant role in attaining timely deliveries was (3.66). The results were varied as shown by a standard deviation of 1. The average mean of all the statements was 3.77 indicating that majority of the respondents agreed on monitoring and evaluation having an influence on performance of parastatals in Kenya. However, the variations in the responses were varied as shown by a standard deviation of 1.134. These findings agree with Kirungu (2012) that through monitoring and evaluation, organizations can improve competitive positioning.

**Table 7: Monitoring and Evaluation** 

Statements	Mean	Std. Deviation
Progress and milestone reports plays a great role in cost reduction	3.58	1.0
Incentives and consequences policy play a great role in cost		
reduction	3.63	0.9
Contingency channels play a great role in cost reduction	3.6	0.7
Progress and milestone reports plays a great role in reducing lead		
time	3.45	1.2
Incentives and consequences policy play a great role in reducing		
lead time	3.5	1.0
Contingency channels play a great role in reducing lead time	3.61	0.6
Progress and milestone reports plays a great role in improving		
profitability	4.17	0.8
Incentives and consequences policy play a great role in improving		
profitability	3.63	0.8
Contingency channels play a great role in improving profitability	3.66	1.0
Average	3.77	1.134



#### 4.5.3 Shareholder Management

There was also need to establish influence of shareholder management on performance of parastatals in Kenya as the third objective. Results indicated that majority of the respondents 47% agreed that it was to a very great extent, 45% said that it was to a great extent, 2% said it was moderate; little extent was 2% and not all at 4%.

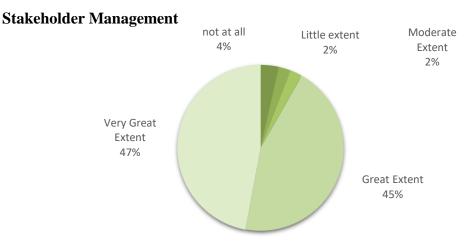


Figure 5: Shareholder Management

The respondents were asked to indicate their levels of agreement on statements regarding shareholder management. The results revealed that majority of the respondents with a mean of (3.8) agreed with the statement that donor relationship play a significant role in cost reduction. The measure of dispersion around the mean of the statements was 0.9 indicating the responses were varied. The result revealed that majority of the respondent as indicated by a mean of (4.9) agreed with the statement contractor relationship play a significant role in cost reduction. The standard deviation for was 0.9 showing a variation. The result revealed that majority of the respondent (3.4) agreed with the statement that customer relationship plays a significant role in cost reduction. The results were varied as shown by a standard deviation of 1.3.

The average response for the statements on donor relationship plays a great role in reducing lead time was (3.6). The results were varied as shown by a standard deviation of 1.2. The average response for the statements on contractor relationship plays a great role in reducing lead time was (4.1). The results were varied as shown by a standard deviation 0.8. The results revealed that majority of the respondent with a mean of (4.1) agreed with customer relationship play a great role in reducing lead time. The measure of dispersion around the mean of the statements was 0.9 indicating the responses were varied.

The result revealed that majority of the respondent as indicated by a mean of (4) agreed with the statement donor relationship plays a great role in improving profitability. The standard deviation for was 1 showing a variation. The result revealed that majority of the respondent (4.2) agreed with the statement that contractor relationship plays a great role in improving profitability. The



results were varied as shown by a standard deviation of 0.8. The average response for the statements on customer relationship play a great role in improving profitability was (3.9). The results were varied as shown by a standard deviation of 0.9.

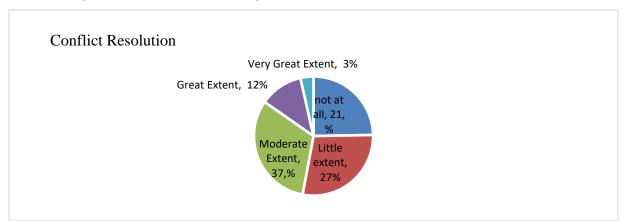
Average mean of all the statements was 3.8 indicating that majority of the respondents agreed on shareholder management having an influence on performance of parastatals in Kenya. However, the variations in the responses were varied as shown by a standard deviation of 0.9. The results are in tandem with Lin and Lee (2011) who opine that an organization benefits greatly when shareholder management is embraced in their procurement department.

**Table 8: Shareholder Management** 

Statements	Mean	Std. Deviation
Donor relationship plays a great role in cost reduction	3.8	0.9
Contractor relationship plays a great role in cost reduction	4.9	0.9
Customer relationship play a great role in cost reduction	3.4	1.3
Donor relationship plays a great role in reducing lead time	3.6	1.2
Contractor relationship plays a great role in reducing lead time	4.1	0.8
Customer relationship play a great role in reducing lead time	4.1	0.9
Donor relationship plays a great role in improving profitability	4.0	1.0
Contractor relationship plays a great role in improving profitability	4.2	0.8
Customer relationship play a great role in improving profitability	3.9	0.9
Average	3.8	0.9

#### 4.5.4 Conflict Resolution

There was also need to establish the influence of conflict resolution on performance of parastatals in Kenya. Results also showed that 3% of respondents indicated to very great extent, great extent was at 12%, moderate extent was 37%, while little extent was at 27% and not at all was at 21%.



**Figure 6: Conflict Resolution** 

Vol. 5, Issue No.2, pp 1 - 22 2021



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The respondents were asked to indicate their views on conflict resolution. The results revealed that majority of the respondent with a mean of (4.5) agreed with the statement that arbitration plays a significant role in cost reduction. The measure of dispersion around the mean of the statements was 0.5. The result revealed that majority of the respondent as indicated by a mean of (3.9) agreed with the statement conciliation plays a significant role in cost reduction the standard deviation for was 0.8 showing a variation. The result revealed that majority of the respondent (3.2) agreed with the statement that litigation plays a significant role in cost reduction. The results were varied as shown by a standard deviation of 1.4

The average response for the statements on arbitration plays a great role in reducing lead time was (4.5). The results were varied as shown by a standard deviation of 0.5. The average response for the statements on conciliation plays a great role in reducing lead time was (4.4). The results were varied as shown by a standard deviation 0.6. The results revealed that majority of the respondent with a mean of (4.4) agreed with the statement litigation play a great role in reducing lead time. The measure of dispersion around the mean of the statements was 0.9 indicating the responses were varied. The result revealed that majority of the respondent as indicated by a mean of (4.3) agreed with the statement Arbitration plays a great role in improving profitability. The standard deviation for was 0.7 showing a variation. The result revealed that majority of the respondent (4.5) agreed with the statement that Conciliation plays a great role in improving profitability. The results were varied as shown by a standard deviation of 1.0. The average response for the statements on Litigation play a great role in improving profitability was (4.1). The results were varied as shown by a standard deviation of 1.0.

Average mean of all the statements was 4.2 indicating that majority of the respondents agreed on conflict resolution having an influence on performance of parastatals in Kenya. However, the variations in the responses were varied as shown by a standard deviation of 0.8. The results agree with Muge (2013) that an organization that embraces conflict resolution benefits greatly in its operations.

**Table 9: Conflict Resolution** 

Statements	Mean	Std. Deviation
Arbitration plays a great role in cost reduction	4.5	0.5
Conciliation plays a great role in cost reduction	3.9	0.8
Litigation play a great role in cost reduction	3.2	1.4
Arbitration plays a great role in reducing lead time	4.5	0.5
Conciliation plays a great role in reducing lead time	4.4	0.6
Litigation play a great role in reducing lead time	4.4	0.9
Arbitration plays a great role in improving profitability	4.3	0.7
Conciliation plays a great role in improving profitability	4.2	1.0
Litigation play a great role in improving profitability	4.1	1.0
Average	4.2	0.8



#### 4.6 Correlation Analysis

Correlation analysis was used to determine both the significance and degree of association of the variables and also predict the level of variation in the dependent variable caused by the independent variables. The correlation summary shown in Table 4.10 indicates that the associations between each of the independent variables and the dependent variable were all significant at the 95% confidence level. The correlation analysis to determine the relationship between contract administration and performance of parastatals in Kenya, Pearson correlation coefficient computed and tested at 5% significance level.

The results indicate that there is a positive relationship (r=.509) between management strategy and performance of parastatals in Kenya. In addition, the researcher found the relationship to be statistically significant at 5% level (p=0.000, <0.05). The results also indicate that there is a positive relationship (r=.398) between monitoring and evaluation and performance of parastatals in Kenya. In addition, the researcher found the relationship to be statistically significant at 5% level (p=0.000, <0.05). The results indicate that there is a positive relationship (r=.678) between shareholder management and performance of parastatals in Kenya. In addition, the researcher found the relationship to be statistically significant at 5% level (p=0.000, <0.05). The results indicate that there is a positive relationship (r=.685) between conflict resolution and performance of parastatals in Kenya. In addition, the researcher found the relationship to be statistically significant at 5% level (p=0.000, <0.05). Hence, it is evident that all the independent variables could explain the changes in performance of parastatals in Kenya, on the basis of the correlation analysis.



**Table 10: Summary of Pearson's Correlations** 

		Manageme	Monitoring and	Shareholder	Conflict	Performance
Correlations		nt Strategy	Evaluation	Management	Resolution	of Parastatals
Management	Pearson					
Strategy	Correlation	1				
	Sig. (2-Taile	d)				
Monitoring		,				
and	Pearson					
Evaluation	Correlation	.263**	1			
	Sig. (2-					
	Tailed)	0.007				
Shareholder	Pearson					
Management	Correlation	.350**	.346**	1		
	Sig. (2-					
	Tailed)	0	0			
Conflict	Pearson					
Resolution	Correlation	.363**	.516**	.543**	1	
	Sig. (2-					
	Tailed)	0	0	0		
Performance	Pearson					
of Parastatals	Correlation	.509**	.398**	.678**	.685**	1
	Sig. (2-					
	Tailed)	0	0	0	0	

<sup>\*\*</sup> Correlation is Significant at the 0.05 Level (2-Tailed).

#### 4.7 Regression Analysis

In this study multivariate regression analysis was used to determine the significance of the relationship between the dependent variable and all the independent variables pooled together. Regression analysis was conducted to find the proportion in the dependent variable (performance of parastatals in Kenya) which can be predicted from the independent variables (management strategy, monitoring and evaluation, shareholder management and conflict resolution).

Table 11 presents the regression coefficient of independent variables against dependent variable. The results of regression analysis revealed there is a significant positive relationship between dependent variable and the independent variable. R square value of 0.647 means that 64.7% of the corresponding variation in performance of parastatals in Kenya can be explained or predicted by (management strategy, monitoring and evaluation, shareholder management and conflict resolution) which indicated that the model fitted the study data. The results of regression analysis revealed that there was a significant positive relationship between dependent variable and independent variable at ( $\beta = 0.647$ ), p=0.000 <0.05).



**Table 11: Model Summary** 

Model	R	R Square	Adjusted R Square	Std. Error of the
				Estimate
1	.805a	.647	.633	.166295

- a. Predictors: (Constant), Management Strategy, Monitoring and Evaluation, Shareholder Management and Conflict Resolution
- b. Dependent Variable: Performance of Parastatals

Table 12: ANOVA

Mod	el	Sum of	df	Mean Square	$\mathbf{F}$	Sig.
		Squares				
1	Regression	5.027	4	1.257	44.892	.000 <sup>b</sup>
	Residual	2.738	99	0.028		
	Total	7.765	103			

- a) Predictors: (Constant), Management Strategy, Monitoring and Evaluation, Shareholder Management and Conflict Resolution
- b) Dependent Variable: Performance of Parastatals

The significance value is 0.000 which is less than 0.05 thus the model is statistically significance in predicting how management strategy, monitoring and evaluation, shareholder management and conflict resolution influence performance of parastatals in Kenya. The F critical at 5% level of significance was 23.5. Since F calculated which can be noted from the ANOVA table above is 44.892 which is greater than the F critical (value= 23.5), this shows that the overall model was significant. The study therefore establishes that; management strategy, monitoring and evaluation, shareholder management and conflict resolution were all important contract administration aspects influencing performance of parastatals. These results agree with Rotich (2011) results which indicated a positive and significant influence of prudent contract administration on performance of parastatals.

**Table 13: Coefficients of Determination** 

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		β	Std. Error	Beta		
1	(Constant)	2.353	0.202		11.69	0.000
	Management Strategy	0.183	0.037	0.392	4.948	0.000
	Monitoring & Evaluation	0.158	0.045	0.232	3.546	0.001
	Shareholder Management	0.121	0.023	0.383	5.272	0.000
	Conflict Resolution	0.001	0.036	0.001	0.027	0.040

a) Predictors: (Constant), Management Strategy, Monitoring and Evaluation, Shareholder Management and Conflict Resolution



b) Dependent Variable: Performance of Parastatals

The research used a multiple regression model

$$Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 + \mathcal{E}$$

The regression equation will be;

$$Y=2.353+0.183X_1+0.158X_2+0.121X_{3+}0.001X_4$$

The regression equation above has established that taking all factors into account (management strategy, monitoring and evaluation, shareholder management and conflict resolution) constant at zero, performance of parastatals in Kenya will be an index of 2.353. The findings presented also shows that taking all other independent variables at zero, a unit increase in management strategy will lead to a 0.183 increase in performance of parastatals. The P-value was 0.000 which is less 0.05 and thus the relationship was significant. The study also found that a unit increase in monitoring and evaluation will lead to a 0.158 increase in performance parastatals. The P-value was 0.001 and thus the relationship was significant. In addition, the study found that a unit increase in shareholder management will lead to a 0.121 increase in performance of parastatals. The P-value was 0.000 and thus the relationship was significant.

Lastly, the study found that conflict resolution will lead to a 0.001 increase in performance of parastatals. The P-value was 0.04 and hence the relationship was significant since the p-value was lower than 0.05. The findings of the study show that, management strategy contributed most to the performance of parastatals.

#### 5.0 SUMMARY, CONCLUSION AND RECOMMENDATIONS

#### 5.1 Summary of the Findings

The findings of the study indicated that management strategy, monitoring and evaluation, shareholder management and conflict resolution have a positive relationship with performance of parastatals in Kenya.

#### **5.2 Conclusion**

First, in regard to management strategy, the regression coefficients of the study show that it has a significant influence on performance of parastatals. This implies that increasing levels of management strategy by a unit would increase the levels of performance of parastatals. This shows that management strategy has a positive influence on performance of parastatals.

Second in regard to monitoring and evaluation, the regression coefficients of the study show that it has a significant influence on performance of parastatals. This implies that increasing levels of monitoring and evaluation by a unit would increase the levels of performance of parastatals. This shows that monitoring and evaluation has a positive influence on performance of parastatals.

With regard to shareholder management, the regression coefficients of the study show that it has a significant influence on performance of parastatals. This implies that increasing levels of shareholder management by a unit would increase the levels of performance of parastatals. This shows that shareholder management has a positive influence on performance of parastatals.

Vol. 5, Issue No.2, pp 1 - 22 2021



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Lastly, in regard to the fourth objective, the regression coefficients of the study show that it has a significant influence on performance of parastatals. This implies that increasing levels of conflict resolution by a unit would increase the levels of performance of parastatals. This shows that conflict resolution has a positive influence on performance of parastatals.

Drawing on this research, lack of management strategy, monitoring and evaluation, shareholder management and conflict resolution in parastatals is leading to poor performance. Though the parastatals are striving hard to improve their performance there are still issues of poor-quality products, long lead time and high cost of projects. It was articulated that the current phenomenon of poor performance in the public sector can be reversed if the government and other stakeholders ensure management strategy, monitoring and evaluation, shareholder management and conflict resolution are embraced in the procurement function.

#### **5.3 Recommendations**

The study recommended that public institutions should embrace contract administration so as to improve performance and further researches should to be carried out in other public institutions to find out if the same results can be obtained.

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