CHAPTER FOUR

4.1 PRESENTATION AND ANALYSIS OF DATA

This research work was carried out to examine evaluate the role of e-procurement enhancing supply chain performance, which Lafarge Africa PLC serve as a case study, this chapter will be based on the questionnaire distributed to the respondents who were employed of the organization under study the questionnaire contains twenty main questions divided into two parts.

"A" part of questionnaire covered the personal data of the respondents, while "B" contains various questions on valve analysis distributed to the staff or Lafarge Africa PLC, all the copies ware dully completed and returned back by the respondents, this table below represented 100% of the total numbers of respondents.

TABLE 1:   SEX DISTRIBUTIONS

OPTIONS	RESPONDENTS	PERCENTAGE %
Male	50	63
Female	30	37
Total	80	100%

Source: Research Survey 2025

From the table above 50 of the respondents which stand for 63% were male while 30 of the respondents 37% are female.

TABLE 2:   MARITAL STATUS

OPTIONS	RESPONDENTS	PERCENTAGE %
Single	20	25
Married	50	63
Divorced	5	6
Widow	5	6
Total	80	100%

Source: Research Survey 2025

From the table above 20(25%) of the respondents were singles 50 (63%) of the respondents were married. 5(5%) were divorced while 5(6%) were widow.

TABLE 3:   EDUCATIONAL QUALIFICATION

OPTIONS	RESPONDENTS	PERCENTAGE %
WAEC	10	20

ND/NCE

20

27

HND/BSC

50

63

Total

80

100%

The table shows the educational qualification of the respondents as follows 10 (20%) respondents were level WAEC certificate 20 (27%)respondents were ND/NCE holders, 50 (63%) respondents were HND/BSC graduate.

TABLE 4:   AGE EXPERIENCE

OPTIONS

RESPONDENTS

PERCENTAGE %

18 – 30years

30

38

31 – 40years

45

56

41 – 50 above

5

6

Total

80

100%

The table shows the Age Experience of the respondents as follows 30 (38%) were 18-30years. 45 (56%) respondents were 31-40 years. 5(6%) respondents were 41-50 above.

TABLE 4: 4 WORKING STATUS OF RESPONDENTS

RESPONSE

NO OF RESPONDENTS

PERCENTAGE %

Management

10

25

Senior Staff

40

75

Junior Staff

Total

80

100%

Table 4.4 shows that 10 respondents representing 25% of the total respondents were management while 40 respondents representing indicate junior staff, the significance of this result was that respondents from

senior statues and this better knowledge and experience were used for the working. This will enhance the reliability of the result and finding obtained from the study.

SECTION B: RESEARCH QUESTIONS

Question 1: Does your organization use e-procurement system?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	10	20
NO	40	80
Total	50	100%

Sources Researchers Survey 2025

From the table above show that organization use e-procurement system because 10 respondents representing (20%) of the total respondents said Yes, while the remaining 40 (80%) said No

Question 2: Have you used e-procurement for over a year?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	5	10

NO

45

90

Total

50

100%

From the table above you can clearly see that you used e-procurement for over a year because 45 respondents representing (90%) of the total strongly disagree while the remaining 5 respondents representing (100%) of the total agree.

Question 3: Do you use cloud based e-procurement platform?

CHOICE

NO OF RESPONSES

PERCENTAGE %

YES

-

10

NO

50

90

Total

50

100%

This question was asked and the table show that all 50 respondents representing 100% of the total agree that you use cloud based e-procurement platform?

Question 4: Is your organization supply chain efficient?

CHOICE

	NO OF RESPONSES	PERCENTAGE %
YES	5	10
NO	45	90
Total	50	100%

This table show that is your organization supply chain efficient because 45 respondent representing (90%) of the table strongly disagree while the remaining 5 respondents representing (10%) of the total agree.

Question 5: Has e-procurement improved supply chain transparence?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	35	70
NO	15	30
Total	50	100%

From   the table above 35 respondent representing 70% of the table respondent claim that e-procurement improved supply chain transparency while is respondent representing 30% of the respondent did not agreed to the passed question this show that e-procurement improved supply chain.

Question 6: Do you experience frequent supply chain disruption?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	50	100
NO	-	-
Total	50	100%

This table show that all the 50 respondents representing 100% of the total respondents that you experience frequent supply chain disruption while there is no responses for No i.e they gave negative view.

Question 7: Has e-procurement reduced procurement processing?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	35	

	70
NO	15
	30
Total	50
	100%

Sources Researchers Survey 2025.

This table show that 35 respondent claimed the e-procurement reduced procurement processing while 15 respondent disagreed to the question.

Question 8: Has e-procurement improved supplier collaboration?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	45	90
NO	5	10
Total	50	100%

Sources Researchers Survey 2025,

From the table above 45 respondents representing 90%of the total respondent agrees that e-procurement improved supplier collaboration while 5(10%) of the respondent did not agree to the question.

Question 9: Have you seen cost saving through e-procurement

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	50	100
NO	-	-
Total	50	100%

This table above show that all the respondents claimed that you seen cost saving through e-procurement which is 50 respondent representing all the total respondents of 100% while no respondent disagree to the passed question this show that you seen cost saving through e-procurement.

Question 10: Has e-procurement enhanced contract management

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	40	80
NO	10	20
Total	50	

100%

From the above table 40 respondent representing (80%) agreed that e-procurement enhanced contract management while the remaining 10 respondent representing (20%) disagreed to the posed question..

Question 11: Have you faced challenges implementing e-procurement?

CHOICE

NO OF RESPONSES

PERCENTAGE %

YES

45

10

NO

5

90

Total

50

100%

From the table above 45 respondents representing (90%) of the total respondents agreed that you faced challenges implementing e-procurement. While 5 respondents representing (10%) of the respondent did not agreed to the question this show that you faced challenges implementing e-procurement.

Question 12: Do suppliers resist using e-procurement?

CHOICE

NO OF RESPONSES

PERCENTAGE %

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	40	80
NO	10	20
Total	50	100%

This table above show that 40 respondent representing (80%) of the total respondents accepted that. Do suppliers resist using e-procurement. While 10 respondents representing (20%) claim that suppliers resist using e-procurement.

Question 13: Are there security concerns with e-procurement

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	35	70
NO	15	30
Total	50	100%

From the table above 35 respondents representing (70%)the total respondents claims that are there security concerns with e-procurement, while 15 respondents representing (30%) of the respondent did not agreed to the posed question this show that there security concerns with e-procurement.

Question 14: Has e-procurement improved inventory management?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	50	100
NO	-	-
Total	50	100%

Sources Researchers Survey 2025.

This table shows that all the 50 respondent representing (100%) of the total respondent claim that e-procurement improved inventory management, while there is not responses for No i.e they gave negative.

Question 15: Has e-procurement enhanced logistics and shipping?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	35	70
NO	15	30

Total

50

100%

This table above show that 35 respondent representing (70%) of the total respondent accepted that e-procurement enhanced logistics and shipping. While 15 respondent representing (30%) claim that e-procurement enhanced logistics and shipping.

Question 16: Do you track e-procurement impact on supply chain

CHOICE

NO OF RESPONSES

PERCENTAGE %

YES

50

100

NO

-

-

Total

50

100%

This table above show how you track e-procurement impact on supply chain and the shows that all the 50 respondents representing (100%) agree to the question. While no was left blank. Which means no one disagreed this show the you track e-procurements impact on supply chain.

Question 17: Do you plan to expand e-procurement usage?

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	30	60
NO	20	40
Total	50	100%

Sources Researchers Survey 2025.

From the table above, 30 respondent representing (60%) of the total respondents claims that you plan to expand e-procurement usage while 20 respondent representing (40%) respondent disagreed the question this shows that they do not plan to expand e-procurement usage.

Question 18: Will you integrate e-procurement to other system

CHOICE	NO OF RESPONSES	PERCENTAGE %
YES	40	80
NO	10	20
Total		

50

100%

This table above show that 40 respondents representing (80%) of the total respondents agreed that integrate e-procurement to other system. While 10 respondents represent (20%)did not agreed to the question this show that you integrate e-procurement to other system.

Question 19: Do you expect e-procurement to evolve significantly?

CHOICE

NO OF RESPONSES

PERCENTAGE %

YES

50

100

NO

-

-

Total

50

100%

From the table above 50 respondents representing (100%) of the total respondents that you expect e-procurement to evolve significantly while. Here is no response for No. this show that expect e-procurement to evolve significantly.

Question 20: Has e-procurement positively impacted supply chain performance?

CHOICE

NO OF RESPONSES

PERCENTAGE %

YES

45

90

NO

5

10

Total

50

100%

Sources Researchers Survey 2025.

This table above show that 45 respondents representing (90%) of the respondents claimed that e-procurement positively impacted supply chain performance while 5 respondents representing (10%) disagree to the posed question this shows that e-procurement positively impacted supply chain performance.

4.2   TEST OF HYPOTHESIS

Testing of the hypothesis formulated for this study will be done using the chi-square hypothesis testing method it examines whither two samples are different and to commonly used when the variances of two normal distribution are unknown and chi-square formular.

Is: $(X2) = E (0-e)2$

$\qquad$ e

E = Summation

0 = Observe

E = Expected frequency

HYPOTHESIS TESTING: HYPOTHESIS ONE

Ho: The organization does not use e-procurement

HI: The organizational use e-procurement system: HI

The organizational use e-procurement system: HI: the organizational we e-procurement.

Using the chi-square (X2) analysis thus

(X2) = E(0-e)2

e

Chi – Square Tabular- Calculation

Choice

O

E

(O-E)

(O-E)2

(O-E)2/E)

YES

7

40

33

1089

27.225

NO

3

10

7

49

4.9

X232.125

Decision Rule:

Based on the results obtained as showed in the table above, the calculated result (X2)32.125>Xtab(2-o) we will therefore reject the null hypothesis (Ho)that state that: The organization does not use e-procurement and accept the alternate hypothesis (HI) which state that HI: the organizational used e-procurement system.

HYPOTHESIS TWO

HO: E-procurement have not been used over a year

HI: E-procurement has been used over a year using the chi-square (X2) analysis this.

Formula is: $(X2)=E(0-e)2$

   e

Chi – Square Tabular- Calculation

Choice

O

E

(O-E)

(O-E)2

(O-E)2/E)

YES

43

25

18

324

12.96

NO

7

25

-18

324

12.96

22.96

Decision Rule:

The calculated chi-square value (X2)25.92 ios grater that the table X tab (2.0)we will therefore reject the null hypothesis (Ho) that state that: E-procurement has not been used over a year that accept the alternate hypothesis (HI)which state that: E-procurement has been used over a year.