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Assessment of Educational Facilities and Administrative Effectiveness in Colleges of Education: A Case Study of Delta State

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Authors' contributions

This work was carried out in collaboration between both authors. Both authors read and approved the final manuscript.

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ABSTRACT

This research aimed to assess the impact of educational facilities on administrative effectiveness within Colleges of Education. To achieve this, six research questions were formulated, and six hypotheses were proposed. The study utilized a correlational research design, The population of the study comprised 2,925 staff of the public colleges of education across Delta State and a sample of 800 administrative staff from Colleges of Education in Delta State was randomly selected. Questionnaires and checklists were employed as data collection instruments and were validated by experts in Measurement and Evaluation. Descriptive and inferential statistics were used to analyze the gathered data. Mean, standard deviation and Pearson coefficient of determination were used to address the research questions, while t-test and simple regression were employed to test the hypotheses at a significance level of 0.05. The study's findings indicated that educational facilities

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are available, adequate, and utilized in Delta State Colleges of Education. Additionally, significant differences were observed in the availability, adequacy, and utilization of educational facilities among the various colleges of education in Delta State. Furthermore, a significant relationship was identified between the availability, adequacy, and utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State. Based on the study's results, the researcher recommended an increase in the purchase of educational facilities to further enhance administrative effectiveness in Colleges of Education.

Keywords: Educational facilities; administrative effectiveness; colleges of education; utilization; adequacy; availability.

1. INTRODUCTION

Education is universally recognized as a powerful tool that drives progress in various domains, such as social, political, scientific, and technological spheres [1]. Its significance lies in the fact that neglecting the education of citizens can impede development and hinder progress, causing society to move at a sluggish pace. Education encompasses a broad range of processes through which individuals, particularly children and young adults, nurture their abilities, cultivate attitudes, and develop behaviours that hold value for the society they inhabit [1]. By imparting knowledge and skills, education equips individuals to thrive in their personal lives while contributing meaningfully to the betterment of society.

As emphasized by Peretomode and Chukwuma [2], higher education is a prerequisite for a scientific and technological nation's development. Higher education institutions, such as colleges of education, play a significant role in this process by producing highly motivated, conscientious, and efficient classroom teachers for the primary and post-primary levels of the educational system [3]. Colleges of education are instrumental in equipping individuals with the knowledge and skills required for positions of responsibility in government, business, and other spheres of life, making them essential for economic and social development worldwide [3].

However, for colleges of education to fulfil their critical roles in shaping future leaders and developing high-level manpower, effective management is essential [4]. The rector, as the administrative head, plays a central role in the management process, working with both academic and non-academic staff to achieve the institution's objectives [5]. Management in colleges of education involves a sequence of events, including planning, coordinated organizing, and controlling available human and material resources to achieve desired outcomes [5]. When management is effective, outlined objectives of an organization can be accomplished through a careful and systematic arrangement and use of resources in a faster and more efficient manner.

importance Despite the of management, observations and comments by major stakeholders, including academic and nonacademic union leaders, indicate that certain administrators in colleges of education in the country, particularly in Delta State, exhibit weaknesses and lack administrative skills (Taiwo, 1980) in Ekaette, [6]. These leaders are characterized by an obsolete traditional personnel administration style, leading to the neglect of staff welfare, inadequate supervision, and a lack of vision for the colleges [6]. Such shortcomings can result in a nonchalant attitude toward work and hinder the continuity of good track records of performance in the system.

In addition to external challenges like inadequate infrastructures, lack of political will, and overpopulation in colleges of education, the state of educational facilities is another critical factor that affects management and educational outcomes [7], Ade-Ajaye, 2003; Akuezuilo, 2007; [8]. Educational facilities, including buildings, equipment, instructional materials, libraries, and laboratories, play a pivotal role in the smooth running of teaching and learning processes [9]. Availability, adequacy, and utilization of these facilities are crucial for creating a conducive learning environment and enhancing educational efficiency [10].

The availability of educational facilities refers to the provision made for effective teaching and learning in colleges of education [11]. It is essential for new institutions to ensure adequate provisions of facilities as they are a prerequisite for the approval of any college of education in Nigeria [11]. However, it is not uncommon for many colleges, especially in Delta State, to have dilapidated and inadequate facilities [12]. This deficiency can lead to poor learning outcomes and frustrate the efforts of both teachers and administrators.

Moreover, the adequacy of educational facilities is vital for effective management. In this context, adequacy refers to the state of being sufficient to meet the requirements for a conducive learning environment [10]. The National Commission for Colleges of Education has set criteria for determining the adequacy of facilities [10]. Unfortunately, many colleges in Delta State have outdated and insufficient facilities, which can hinder the achievement of educational goals.

Furthermore, the utilization of educational facilities is crucial for effective teaching and learning activities [13]. When facilities are optimally used, they generate greater student interest in learning and enhance idea retention [14]. However, in some colleges of education in Delta State, even the available facilities may not be fully utilized due to various reasons, including lack of funds and inadequate skills of the educators [14]. Overcrowding and overutilization of available physical space and facilities can also lead to rapid deterioration and breakdown of resources Famade cited in [15].

The availability, adequacy, and utilization of educational facilities are crucial for administrators' effectiveness in managing colleges of education. Effective management, supported by proper facilities, can lead to educational improved outcomes, better performance of both students and educators and the production of high-quality graduates [16].. However, the lack of adequate facilities and their effective utilization can hinder educational efficiency and contribute to dissatisfaction with the education system [16].

In conclusion, education is a vital force that drives progress in various domains of society. Effective management, availability, adequacy, and utilization of educational facilities are essential for the success of colleges of education and the overall educational system. Addressing these factors can lead to improved outcomes and the production of well-prepared teachers and educated citizens, contributing to the development and progress of the nation (Ogiugo, 2012). In view of this, the focus of this study is on the assessment of the impact of educational facilities on administrative effectiveness within

Colleges of Education in Delta State. Various studies have been carried out on the topic area. However, to the best knowledge of the researchers, none of these studies were carried out in Colleges of Education with particular reference to Delta State. This is the gap that the current study filled.

1.1 Research Questions

The following research questions will guide the study:

- 1. To what extent are educational facilities available in colleges of education in Delta State?
- 2. To what extent are educational facilities adequate in colleges of education in Delta State?
- 3. To what extent are educational facilities utilised in colleges of education in Delta State?
- 4. What is the nature of the relationship between the availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State?
- 5. What is the degree of relationship between the adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State?
- 6. What is the nature of the relationship between the utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State

1.2 Hypotheses

The following null hypotheses will be tested at a 0.05 level of significance:

- 1. There is no significant difference in the availability of educational facilities among the various colleges of education in Delta State
- 2. There is no significant difference in the adequacy of educational facilities among the various colleges of education in Delta State
- 3. There is no significant difference in the utilization of educational facilities among the various colleges of education in Delta State
- 4. There is no significant relationship between the availability of educational facilities and school administrators'

effectiveness in Colleges of Education in Delta State

- There is no significant relationship between the adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State
- 6. There is no significant relationship between utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

2. METHODOLOGY

This study adopted a descriptive research design. This research design is considered appropriate because the researcher studied the availability, adequacy, and utilization of educational facilities and school administrators' effectiveness as they exist in their natural state.

The population of the study will comprise all staff of the public colleges of education across Delta State. There are currently four colleges of education in Delta State and 2,925 staff. The sample size will comprise four (4) colleges and 800 staff which represents 27% of the total population. The sampling techniques to be adopted in the study are simple random sampling techniques. The simple random sampling technique is considered appropriate because it gives all the staff in the colleges of education an equal chance of being selected.

Two instruments were used to obtain data for the study. A questionnaire and an Educational Facility Inventory Checklist (EFIC). The questionnaire titled Staff Survev for Administrator's Effectiveness (SSAE), adapted from the Minnesota Department of Education's Teacher Survey for Principal Development and Evaluation: Administration Guidance (2016) and revised to reflect the objective of the study. It contains 2 sections; section A will contain demographic data of respondents which will include sex, years of experience and cadre. Section B of the questionnaire will contain items structured on a 4-point Likert scale of SA for Strongly Agree (4), A for Agree (3), D for Disagree (2) and SD for Strongly Disagree (1). The Staff Survey for Administrator's Effectiveness (SSAE) will be used to measure the dependent variable of school administrator effectiveness. The inventory Checklist will contain educational facilities to which the respondent will be required to respond in order of availability, adequacy and utilization.

The instruments were validated based on experts' judgement and factor analysis. The Educational Facility Inventory Checklist (EFIC) was given to experts in Educational Management and Measurement and Evaluation. The experts were given copies of the instruments for them to ascertain and assess their relevance to the study. They ensured that the face and content validity of the Educational Facility Inventory Checklist (EFIC) was met. Initially, they made some recommendations which entailed obtaining the National Commission for Colleges of Education (NCCE) standard requirement for educational facilities, which was used to compile the educational facilities inventory checklist.

The Staff for Administrator's Survey Effectiveness (SSAE) was validated using factor analysis by a Psychometrician in the Department of Guidance and Counselling. The instrument was administered to 57 staff of the College of Education Ekiadolor. Edo State and the data obtained was subjected to factor analysis to determine the construct validity of the instrument. The factors (components) were extracted using Principal Component Analysis, and factors whose eigenvalue is greater than 1.0 were retained while those whose eigenvalue is less than 1.0 were discarded. The factors were thereafter rotated to determine the loading of each item in the various components. This was done using an orthogonal solution with the Varimax method. The reason for the factor analysis was because the instrument was adapted originally from an instrument which measures secondary school principal's effectiveness far away in Minnesota USA. Since the researcher is adapting it for the measurement of the effectiveness of an administrator in the College of Education here in Delta State Nigeria, there was a need to ascertain the suitability of the instrument to the area and objective of study. The total cumulative variance was obtained as expressing the content validity of the instrument. The values for a shared vision for high students' achievement was 71.34%, for Instructional leadership, 82.00%, for high quality and effective staff, = 75.79%, for personal leadership, = 79.63% and for Systems and Operation, = 80.44. These values are the content of validity of the total number of items that measure the variables domain which also indicates the percentage or amount of contribution made to the shared vision for high students' achievement, instructional leadership, high quality and effective staff, personal leadership and systems and

operation that explains the total cumulative variance.

However, the construct validity was estimated by using the rotated factor loading matrixes. The Eigenvalues were used to select factors that genuinely measure similar constructs. The items in the instrument that measured staff survey for administrative effectiveness had to load matrixes that ranged between 0.51 and 0.93 for a shared vision for high student achievement, 0.61 and 0.91 for instructional leadership, 0.65 and 0.91 for high quality and effective staff, 0.55 and 0.90 for personal leadership and 0.81 and 0.91 for Systems and Operation.

In order to ascertain the reliability of the research instrument, the Staff Survey for Administrator's Effectiveness (SSAE) was administered to 30 staff of the College of Education Ekiadolor, Edo State, since they were not part of the study. The data obtained was subjected to a Cronbach alpha reliability coefficient and the coefficient obtained was 0.83. The instrument was administered directly to the respondents by the researcher with the help of 6 research assistants. The staff of the various colleges were approached and asked to respond to the questionnaire and the inventory checklist after permission had been sought from him/her. Salient areas were explained to the respondents for clarity. The data were retrieved on the spot.

The data obtained were analysed with the aid of descriptive and inferential statistics. Research questions 1-3 were analysed with mean and standard deviation while research questions 4-6 were analysed with Pearson Product Moment Correlation Coefficient. Hypothesis 1-3 on the other hand were tested with independent samples t-test while hypothesis 4-6 were tested with Pearson Product Moment Coefficient. All hypotheses were tested at a 0.05 level of significance.

3. RESULTS

Research Question 1: To what extent are educational facilities available in colleges of education in Delta State?

Table 1 shows the mean analysis of the extent to which educational facilities are available in Delta State Colleges of Education. The average mean of 2.72, which is higher than the criterion mean of 2.50 implies that educational facilities are available.

Research Question 2: To what extent are educational facilities adequate in colleges of education in Delta State?

Table 2 shows the mean analysis of the extent to which educational facilities are adequate in Delta State Colleges of Education. The average mean of 0.52, which is higher than the criterion mean of 0.50 implies that educational facilities are adequate.

Research Question 3: To what extent are educational facilities utilised in colleges of education in Delta State?

Table 3 shows the mean analysis of the extent to which educational facilities are utilised in Delta State Colleges of Education. The average mean of 2.42, which is less than the criterion mean of 2.50 implies that educational facilities are utilised.

Research Question 4: What is the nature of the relationship between the availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State?

As shown in Table 4, the coefficient of determination obtained was 0.19, which signifies a positive relationship between Teachers' availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

Research Question 5: What is the degree of relationship between the adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State?

Table 5 shows that the coefficient of determination obtained was 0.01. This means that there is a positive relationship between the adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

Research Question 6: What is the nature of the relationship between the utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State?

S/N	Educational Facilities	Mean	SD	Remark
1	Classrooms	2.52	1.06	Α
2	Lecture theatres	2.74	1.09	А
3	lecture halls	2.56	0.98	А
4	Office furniture	2.61	0.98	А
5	Computers	2.52	1.00	А
6	Science Laboratory	2.24	0.97	NA
7	School Library	2.93	0.99	А
8	Departmental library	2.35	0.99	NA
9	Library facilities	2.93	0.97	А
10	Vehicles for administrative use	2.36	0.98	NA
11	Counselling Centre	2.44	0.97	NA
12	Demonstration Schools	3.09	0.98	A
13	Staff Offices	3 17	0.80	A
14		3 10	0.00	A
15	Reprographic machines	3 15	0.92	A
16	Books	3.08	0.02	Δ
17	Photographic studio	2.87	0.00	Δ
18	Graphic studio	2.07	0.00	Δ
10	Projection room	2.00	0.30	Δ
20	Computer room	2.90	0.33	Λ Λ
20	Workshop for production of instructional materials	2.00	0.94	A A
21		2.01	0.07	A ^
22	CCTV Monitors (tolovinion acts with remote controle)	2.01	0.90	A
23	Video comoro with occorrection	3.13	0.90	A
24	Video camera with accessories	3.10	0.91	A
20	Video player/recorder	3.20	0.03	A
20	Editing/dubbing machine	2.94	1.01	A
27	Side projectors with accessories	2.94	1.01	A
28	Opaque projectors with accessories	2.91	0.92	A
29	Audio projectors with accessones	2.92	0.09	A
30		2.70	1.01	A
31	Amplifiers	2.89	1.06	A
32		2.24	1.08	NA A
33	Whiteboard	2.51	1.02	A
34		2.59	0.97	A
35	Air-conditioners	2.37	1.03	NA
36	loilets	2.24	1.05	NA
37	Water supply	2.23	0.96	NA
38	Electricity supply	2.44	1.10	NA
39	Tables and chairs	2.56	1.03	A
40	Hostel accommodation for students	2.43	1.00	NA
41	Co-curricular facilities	2.06	1.01	NA
42	Medical facilities	2.46	1.03	NA
43	Sport facilities	2.75	0.98	А
44	School Bookshop	2.71	1.03	А
45	Whiteboard marker	2.37	0.99	NA
46	Magnetic whiteboard duster	2.49	1.00	NA
Avera	ge Mean	2.72	0.98	Available

Table 1. Mean analysis of the extent to which educational facilities are available in Colleges ofEducation in Delta State

Criterion Mean = 2.50; A – Available; NA – Not Available

S/N	Educational Facilities	Mean	SD	Remark
1	Classrooms	0.26	0.44	NAD
2	Lecture theatres	0.68	0.47	AD
3	lecture halls	0.58	0.49	AD
4	Office furniture	0.55	0.50	AD
5	Computers	0.89	0.32	AD
6	Science Laboratory	0.35	0.50	NAD
7	School Library	0.64	0.48	AD
8	Departmental library	0.36	0.50	NAD
9	Library facilities	0.56	0.50	AD
10	Vehicles for administrative use	0.29	0.49	NAD
11	Counselling Centre	0.47	0.44	NAD
12	Demonstration Schools	0.54	0.50	AD
13	Staff Offices	0.67	0.47	AD
14	Typewriters	0.62	0.49	AD
15	Reprographic machines	0.60	0.49	AD
16	Books	0.63	0.48	AD
17	Photographic studio	0.71	0.45	AD
18	Graphic studio	0.56	0.50	AD
19	Projection room	0.57	0.50	AD
20	Computer room	0.63	0.48	AD
21	Workshop for production of instructional materials	0.55	0.50	AD
22	Closed-circuit television (CCTV)	0.81	0.40	AD
23	CCTV Monitors (television sets with remote	0.86	0.35	AD
	controls)			
24	Video camera with accessories	0.80	0.40	AD
25	Video player/recorder	0.64	0.48	AD
26	Editing/dubbing machine	0.34	0.48	NAD
27	Slide projectors with accessories	0.62	0.49	AD
28	Opaque projectors with accessories	0.67	0.47	AD
29	Overhead projectors with accessories	0.32	0.47	NAD
30	Audio projectors	0.72	0.45	AD
31	Amplifiers	0.65	0.48	AD
32	Microphones	0.19	0.41	NAD
33	Whiteboard	0.54	0.50	AD
34	Magnetic chalkboards	0.63	0.48	AD
35	Air-conditioners	0.45	0.50	NAD
36	Toilets	0.35	0.36	NAD
37	Water supply	0.10	0.40	NAD
38	Electricity supply	0.17	0.45	NAD
39	Tables and chairs	0.37	0.48	NAD
40	Hostel accommodation for students	0.39	0.49	NAD
41	Co-curricula facilities	0.20	0.40	NAD
42	Medical facilities	0.47	0.50	NAD
43	Sport facilities	0.74	0.44	AD
44	School Bookshop	0.71	0.45	AD
45	Whiteboard marker	0.27	0.45	NAD
46	Magnetic whiteboard duster	0.38	0.49	NAD
Averag	e Mean	0.52	0.46	Adequate

Table 2. Mean analysis of the extent to which educational facilities are adequate in colleges of education in Delta State

Criterion Mean = 0.50; AD – Adequate; NAD – Not Adequate

1 Classrooms 2.24 1.05 NU 2 Lecture theatres 2.23 0.96 NU 3 lecture halls 2.44 1.10 NU 4 Office furniture 2.66 1.03 U 5 Computers 2.43 1.00 NU 6 Science Laboratory 2.06 1.01 NU 7 School Library 2.57 1.07 U 8 Departmental library 2.48 1.04 NU 9 Library facilities 2.46 1.03 NU 10 Vehicles for administrative use 2.17 1.03 NU 11 Counselling Centre 2.17 1.03 NU 12 Demonstration Schools 2.37 0.99 NU 13 Staff Offices 2.44 1.02 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.47 1.07 NU	S/N	Educational Facilities	Mean	SD	Remark
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3 lecture halls 2.44 1.00 NU 4 Office furniture 2.56 1.00 NU 5 Computers 2.43 1.00 NU 6 Science Laboratory 2.06 1.01 NU 7 School Library 2.57 1.07 U 8 Departmental library 2.48 1.04 NU 9 Library facilities 2.46 1.03 NU 10 Vehicles for administrative use 2.17 1.03 NU 11 Counselling Centre 2.17 1.03 NU 12 Demonstration Schools 2.37 0.99 NU 13 Staff Offices 2.45 1.00 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.37 1.07 NU 16 Books 2.27 1.07 NU 17 Photographic studio 2.67 1.02 NU	2	Lecture theatres	2.23	0.96	NU
4 Office furniture 2.56 1.03 U 5 Computers 2.43 1.00 NU 6 Science Laboratory 2.06 1.01 NU 7 School Library 2.57 1.07 U 8 Departmental library 2.48 1.04 NU 9 Library facilities 2.46 1.03 NU 10 Vehicles for administrative use 2.15 0.98 NU 11 Counselling Centre 2.17 1.03 NU 12 Demonstration Schools 2.37 0.99 NU 13 Staff Offices 2.49 1.00 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.45 1.02 NU 16 Books 2.27 1.07 NU 17 Photographic studio 2.67 1.02 U 18 Graphic studio 2.67 1.02 NU 21 Workshop for production of instructional materials 2.20 1.05 <td>3</td> <td>lecture halls</td> <td>2.44</td> <td>1.10</td> <td>NU</td>	3	lecture halls	2.44	1.10	NU
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6 Science Laboratory 2.06 1.01 NU 7 School Library 2.57 1.07 U 8 Departmental library 2.48 1.04 NU 9 Library facilities 2.46 1.03 NU 10 Vehicles for administrative use 2.15 0.98 NU 11 Counselling Centre 2.17 1.03 NU 12 Demonstration Schools 2.37 0.99 NU 13 Staff Offices 2.49 1.00 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.45 1.02 NU 16 Books 2.27 1.07 NU 17 Photographic studio 2.37 1.05 NU 20 Computer room 2.73 1.01 U 21 Workshop for production of instructional materials 2.20 NU 22 CCTV Monitors (television sets with remote controls)	5	Computers	2.43	1.00	NU
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9 Library facilities 2.46 1.03 NU 10 Vehicles for administrative use 2.15 0.98 NU 11 Counselling Centre 2.17 1.03 NU 12 Demonstration Schools 2.37 0.99 NU 13 Staff Offices 2.49 1.00 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.45 1.02 NU 16 Books 2.27 1.07 NU 17 Photographic studio 2.37 1.02 U 18 Graphic studio 2.67 1.02 U 20 Computer room 2.73 1.01 U 21 Workshop for production of instructional materials 2.20 1.05 NU 21 Closed-circuit television (CCTV) 2.46 1.02 NU 22 Closed-circuit television sets with remote controls) 2.56 1.04 U 225	8	Departmental library	2 48	1 04	NU
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11 Counselling Centre 2.17 1.03 NU 12 Demonstration Schools 2.37 0.99 NU 13 Staff Offices 2.49 1.00 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.45 1.02 NU 16 Books 2.27 1.07 NU 17 Photographic studio 2.37 1.05 NU 18 Graphic studio 2.37 1.05 NU 20 Computer room 2.73 1.01 U 21 Workshop for production of instructional materials 2.20 1.05 NU 22 Closed-circuit television sets with remote controls) 2.56 1.04 U 24 Video camera with accessories 2.67 1.00 U 23 CTV Monitors (television sets with remote controls) 2.56 1.04 U 25 Video player/recorder 2.39 1.05 NU	10	Vehicles for administrative use	2.10	0.98	NU
12 Demonstration Schools 2.37 0.09 NU 13 Staff Offices 2.49 1.00 NU 14 Typewriters 2.33 1.03 NU 15 Reprographic machines 2.45 1.02 NU 16 Books 2.27 1.07 NU 17 Photographic studio 2.37 1.02 NU 18 Graphic studio 2.37 1.02 NU 19 Projection room 2.39 1.02 NU 20 Computer room 2.39 1.02 NU 21 Workshop for production of instructional materials 2.20 1.05 NU 22 Closed-circuit television sets with remote controls) 2.56 1.04 U 23 CCTV Monitors (television sets with remote controls) 2.56 1.04 U 24 Video camera with accessories 2.51 1.04 U 25 Video player/recorder 2.39 1.05 NU 26 Editing/dubbing machine 2.51 1.04 U	11	Courselling Centre	2.10	1.03	NU
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23CCTV Monitors (television sets with remote controls)2.561.04U24Video camera with accessories2.671.00U25Video player/recorder2.391.05NU26Editing/dubbing machine2.511.04U27Slide projectors with accessories2.231.09NU28Opaque projectors with accessories2.560.98U29Overhead projectors with accessories2.300.98NU30Audio projectors2.511.00U31Amplifiers2.220.97NU32Microphones2.401.00NU33Whiteboard2.351.00NU34Magnetic chalkboards2.380.98NU35Air-conditioners2.350.98NU36Toilets2.440.98NU37Water supply3.110.98U38Electricity supply2.180.79NU39Tables and chairs3.110.90U40Hostel accommodation for students2.150.94NU41Co-curricula facilities2.070.94NU42Medical facilities3.020.93U43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard dust	22	Closed-circuit television (CCTV)	2.46	1.02	NU
24Video camera with accessories2.671.00U25Video player/recorder2.391.05NU26Editing/dubbing machine2.511.04U27Slide projectors with accessories2.231.09NU28Opaque projectors with accessories2.560.98U29Overhead projectors with accessories2.300.98NU30Audio projectors2.511.00U31Amplifiers2.220.97NU32Microphones2.401.00NU33Whiteboard2.351.00NU34Magnetic chalkboards2.380.98NU35Air-conditioners2.350.98NU36Toilets2.440.98NU37Water supply3.110.98U38Electricity supply2.180.79NU39Tables and chairs3.110.90U40Hostel accommodation for students2.170.94NU41Co-curricula facilities2.070.94NU42Medical facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	23	CCTV Monitors (television sets with remote controls)	2.56	1.04	U
25Video player/recorder2.391.05NU26Editing/dubbing machine2.511.04U27Slide projectors with accessories2.231.09NU28Opaque projectors with accessories2.560.98U29Overhead projectors with accessories2.300.98NU30Audio projectors2.511.00U31Amplifiers2.220.97NU32Microphones2.401.00NU33Whiteboard2.351.00NU34Magnetic chalkboards2.380.98NU35Air-conditioners2.350.98NU36Toilets2.440.98NU37Water supply3.110.98U38Electricity supply2.180.79NU39Tables and chairs3.110.90U40Hostel accommodation for students2.150.92NU41Co-curricula facilities2.070.94NU42Medical facilities3.020.93U43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	24	Video camera with accessories	2.67	1.00	U
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27Slide projectors with accessories2.231.09NU28Opaque projectors with accessories2.560.98U29Overhead projectors with accessories2.300.98NU30Audio projectors2.511.00U31Amplifiers2.220.97NU32Microphones2.401.00NU33Whiteboard2.351.00NU34Magnetic chalkboards2.380.98NU35Air-conditioners2.350.98NU36Toilets2.350.98NU37Water supply2.180.79NU39Tables and chairs3.110.90U40Hostel accommodation for students2.150.92NU41Co-curricula facilities2.070.94NU43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard duster2.030.95NU	26	Editing/dubbing machine	2.51	1.04	U
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37Water supply3.110.98U38Electricity supply2.180.79NU39Tables and chairs3.110.90U40Hostel accommodation for students2.150.92NU41Co-curricula facilities2.070.94NU42Medical facilities2.170.94NU43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	36	Toilets	2.44	0.98	NU
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39Tables and chairs3.110.90U40Hostel accommodation for students2.150.92NU41Co-curricula facilities2.070.94NU42Medical facilities2.170.94NU43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	38	Electricity supply	2.18	0.79	NU
40Hostel accommodation for students2.150.92NU41Co-curricula facilities2.070.94NU42Medical facilities2.170.94NU43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	39	Tables and chairs	3 11	0.90	IJ
41Co-curricula facilities2.070.94NU42Medical facilities2.170.94NU43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	40	Hostel accommodation for students	2 15	0.92	NU
42Medical facilities2.170.94NU43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	41	Co-curricula facilities	2.07	0.94	NU
43Sport facilities3.020.93U44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	42	Medical facilities	2 17	0.94	NU
44School Bookshop3.130.86U45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	43	Sport facilities	3.02	0.04 0.04	
45Whiteboard marker2.030.95NU46Magnetic whiteboard duster2.150.89NU	44	School Bookshop	3.12	0.35	U U
46 Magnetic whiteboard duster 2.15 0.89 NU	45	Whiteboard marker	2.03	0.00	NILI
Average Mean	40 46	Magnetic whiteboard duster	2.05	0.90	NU
		Magnetie Whiteboard duster	2.15	1 00	Not Litilized

Table 3. Mean analysis of the extent to which educational facilities are utilised in Colleges ofEducation in Delta State

Criterion Mean = 2.50; NU - Not Utilised; U - Utilised

Table 4. Correlation and coefficient of determination of the relationship between availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State

Variables	Ν	Mean	SD	r	r2	Decision
Availability of Educational Facilities	787	127.79	16.26	0.44	0.19	Positive
Administrative Effectiveness		102.65	12.88			Relationship

Table 5. Correlation and coefficient of determination of adequacy of educational facilities and school administrators' effectiveness in colleges of Education in Delta State

Variables	Ν	Mean	SD	r	r2	Decision
Adequacy of		30.08	5.98			Positive
Educational Facilities	787			0.07	0.01	Relationship
Administrative Effectiveness		102.65	12.88			

Table 6 shows that the coefficient of determination obtained was 0.25. This means that there is a positive relationship between the utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

Hypothesis 1: There is no significant difference in the availability of educational facilities among the various colleges of education in Delta State.

As shown in Table 7, the result shows that t = 3.88, p<0.05 level of significance. The null hypothesis is therefore rejected. This means that there is a significant difference in the availability of educational facilities among the various colleges of education in Delta State.

Hypothesis 2: There is no significant difference in the adequacy of educational facilities among the various colleges of education in Delta State.

As shown in Table 8, the result shows that t = 4.55, p<0.05 level of significance. The null hypothesis is therefore rejected. This means that there is a significant difference in the adequacy of educational facilities among the various colleges of education in Delta State.

Hypothesis 3: There is no significant difference in the utilization of educational facilities among the various colleges of education in Delta State .

Table 6. Correlation and Coefficient of determination of Utilization of educational facilities and School Administrators' effectiveness in Colleges of Education in Delta State

Variables	Ν	Mean	SD	r	r2	Decision
Utilization of		122.88	15.63			Positive
Educational Facilities	787			0.50	0.25	Relationship
Administrative Effectiveness	_	102.65	12.88			

Table 7. T-test analysis of the difference in the availability of educational facilities among the various colleges of education in Delta State

College of Education	Ν	Mean	SD	t	Р	Decision
State	355	125.30	17.53			
Federal	432	129.84	14.84	3.88	0.000	Significant

Table 8. T-test analysis of the difference in the adequacy of educational facilities among the various colleges of education in Delta State

College of Education	Ν	Mean	SD	Т	Р	Decision
State	355	29.03	5.81		0.000	Significant
Federal	432	30.95	5.99	4.55		

As shown in Table 9, the result shows that t = 2.88, p<0.05 level of significance. The null hypothesis is therefore rejected. This means that there is a significant difference in the utilization of educational facilities among the various colleges of education in Delta State.

Hypothesis 4: There is no significant relationship between availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State

From the result of Table 10, F(1, 786) = 184.826, p<0.05. The null hypothesis is, therefore, rejected. This means that there is a significant relationship between the availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

Hypothesis 5: There is no significant relationship between the adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

From the result of Table 11, F(1, 786) = 4.124, p<0.05. The null hypothesis is, therefore, rejected. This means that there is a significant relationship between the adequacy of educational facilities and school administrators'

effectiveness in Colleges of Education in Delta State.

Hypothesis 6: There is no significant relationship between utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

From the result of Table 12, F (1, 786) = 256.426, p<0.05. The null hypothesis is, therefore, rejected. This means that there is a significant relationship between the utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State.

4. DISCUSSION

The first finding showed that educational facilities are available in Delta State Colleges of Education. This finding disagrees with the finding of Bizimana and Orodho [17], which showed that the level of teaching and learning resources in the study locale was insufficient. The second finding showed that educational facilities are adequate in Delta State Colleges of Education. This finding is at variance with the finding of Ekundayo [18], which revealed that the schools' physical facilities were not all that adequate. The third finding revealed that educational facilities are utilised in Delta State Colleges of Education.

 Table 9. T-test analysis of the difference in the utilization of educational facilities among the various colleges of education in Delta State

College of Education	Ν	Mean	SD	t	Р	Decision
State	355	121.15	15.61			Significant
Federal	432	129.84	14.84	2.88	0.01	-

Table 10. Regression analysis of the relationship between the availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State

Model	Sum of Square	df	Mean Square	F	Р
Regression	24858.071	1	24858.071	184.826	.000 ^b
Residual	105577.921	785	134.494		
Total	130435.992	786			

A: Dependent Variable: Administrative Effectiveness, B: Predictors: (Constant), Availability of Educational Facilities

Table 11. Regression analysis of the relationship between adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State

Model	Sum of Square	df	Mean Square	F	Р	
Regression	681.640	1	681.640	4.124	.043 ^b	
Residual	129754.352	785	165.292			
Total	130435.992	786				

A: Dependent Variable: Administrative Effectiveness, B: Predictors: (Constant), Adequacy of Educational Facilities

Table 12. Regression analysis of	the relationship between	utilization of educational facilities
and school administrators'	effectiveness in College	s of Education in Delta State

Model	Sum of Square	df	Mean Square	F	Р	
Regression	32116.684	1	32116.684	256.426	.000 ^b	
Residual	98319.309	785	125.248			
Total	130435.992	786				

A: Dependent Variable: Administrative Effectiveness, B: Predictors: (Constant), Utilization of Educational Facilities

This finding disagrees with the finding of Muhammad [19], who found that most senior secondary schools in Sokoto State have no laboratories.

The second finding showed that there is a significant difference in the availability of educational facilities among the various colleges of education in Delta State. This finding is in line with Owoeye [20], who opined that the availability of school facilities is a potent factor in quantitative education. The fifth finding revealed that there is a significant difference in the adequacy of educational facilities among the various colleges of education in Delta State. This finding disagrees with the finding of Okoli and Okorie [21], which showed that there is no significant difference between the adequacy of business studies facilities in public and private junior secondary schools; and there is no significant difference between the adequacy of business studies curriculum compliant textbooks in urban and rural junior secondary schools.

The third finding showed that there is a significant difference in the utilization of educational facilities among the various colleges of education in Delta State. This finding is at variance with the finding of Nwankwo, Nwogbo, Okorji and Egboka [22], which showed that learning facilities for implementing the entrepreneurship education programme in the State are inadequate. The seventh finding revealed that there is a significant relationship between the availability of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State. This finding is in line with Owoeye [20], who opined that the availability of school facilities is a potent factor in quantitative education.

The fourth finding showed that there is a significant relationship between the adequacy of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State. This finding is at variance with the finding of Asiyai [23], who in her study found that the

maintenance carried out on school facilities was inadequate for the majority of the facilities. The ninth finding revealed that there is a significant relationship between the utilization of educational facilities and school administrators' effectiveness in Colleges of Education in Delta State. This finding agrees with the finding of Usen [24], which showed that there exists a significant positive relationship between teachers' utilization of school facilities (library, laboratory, information and communication technology (ICT) centre and recreation centre) and academic achievement of student nurses in Human Biology.

5. CONCLUSION AND RECOMMENDA-TIONS

Based on the findings of the study, it was concluded that educational facilities are available, they are adequate and properly utilised in all the Colleges of Education in Delta State. The administrative effectiveness of staff was high, hence, there was a significant relationship between availability, adequacy, utilisation and administrative effectiveness. From the findings of the study, the researcher recommends as follows:

- 1. more educational facilities should be purchased
- 2. staff should be properly trained on the use and maintenance of available educational facilities

6. POLICY IMPLICATION AND RESEARCH GAP

The findings obtained in the study have implications for the scientific community in several ways. The findings of the study imply disparities in resource distribution. This could prompt research to explore the reasons behind these variations and advocate for more equitable resource allocation strategies. A significant difference in the utilization of educational facilities among colleges highlights potential inefficiencies or disparities in how these resources are employed. There is a need to investigate the factors influencing utilization patterns to optimize resource use across all institutions. The findings of the study can inform policymakers and educators about the specific challenges and strengths within the educational system in Delta State. Evidence-based policy recommendations and intervention strategies can be proposed to address the identified differences and enhance the overall quality of education. The findings also suggest that investing in and ensuring the sufficiency of educational resources can positively impact the effectiveness of school administrators. Stakeholders of education can use this information to advocate for targeted initiatives to improve resource adequacy in educational institutions.

The study has made valuable contributions to the body of knowledge by providing a localized understanding of the educational landscape in Delta State. It provides insights into the availability. adequacy. and utilization of educational facilities, offering a context-specific perspective that can be crucial for policymakers, educators, and researchers. By revealing significant differences in the availability and utilization of educational facilities among various colleges, the study identifies disparities. This contributes to the body of knowledge by highlighting specific areas where resource distribution and utilization need attention, helping to address educational inequalities. The study establishes a significant relationship also between the adequacy of educational facilities and school administrators' effectiveness. This finding contributes to the understanding of the factors influencing administrator performance, emphasizing the importance of sufficient resources in achieving positive outcomes in educational leadership.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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