Post-Occupancy Evaluation Of Female Students' Hostel At Waziri Umaru Federal Polytechnic, Birnin Kebbi, North-West Nigeria

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Abstract: This paper reports on a post-occupancy evaluation carried out on the only female students' hostel at Waziri Umaru Federal Polytechnic, Birnin Kebbi, in North-west Nigeria. The researchers aimed to assess the performance of the building, which has been occupied for nearly two decades. They pursued this by measuring occupants' satisfaction with identified variables like accessibility and circulation, occupation density, cleaning and maintenance of the hostel, space performance, and proximity to essential facilities in the institution. The academics collected data via interviews and structured questionnaires administered randomly to occupants on every floor and wing of the hostel. The authors analyzed the data obtained and calculated the Relative Satisfaction Indexes (RSI) for respondents on both floors of the building. Results show that the performance of the hostel is less than satisfactory in respect of most variables examined.

Keywords: students' housing, residential satisfaction, occupation density, post-occupancy, services.

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I. Introduction

Students, especially those in tertiary institutions, require suitable accommodation in a serene environment for proper assimilation of what they have been taught¹. The number of students pursuing and obtaining admission into universities continues to rise every year². The rising profile of student enrolment in universitiesis creating the challenge for a rather dynamic system to accommodate them, while not compromising on the level of comfort². The case with polytechnics in Nigeria is not different. For example, facilities provided in Lagos state polytechnic, Ikorodu campus, for most departments are inadequate for lectures and practical classes, while some lecturers do not even have offices³. The condition of facilities in a learning environment determines the performance of both the teacher and the student³. The prioritization of students' housing has been stressed. This is because the quality of on-campus accommodation provided by institutions of higher learning has been linked with their prospects of attracting candidates for enrolment^{4,5}.

The Need for Post Occupancy Evaluation

Post occupancy evaluation (POE) is a tool with which facility managers can identify and evaluate the behavior of a building⁶. POE is fast becoming aninstrument used by experts for the diagnosis of buildings and facilities for the purpose of obtaining information useful inthe management of the building⁷. Information collected from POE also guides the design of new and related buildings^{6, 7}.

Assessment of the quality and performance of buildings is a growing practice and common in the developed world⁸.

Evaluation and feedback are the foundations for the continuous improvement in building procurementsought by the Higher Education sector.Post-occupancy evaluation is a way of providing feedback throughout a building's useful life, from initial concept through toOccupation. Information from POE reports can be used for informing future projects, whether it is on the process of delivery or technical performance of the building.

Satisfaction, however, is a multi-dimensional construct with both objective and subjective variables as predictors ¹⁰.

More considerable attention should go to review and evaluation of building performance in-use. This is because the operational phase of building occupancy and use contributes the most to pollution and whole life-

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cycle costs¹¹. If a post-occupancy evaluation is not carried out on buildings in use, there exists a possibility of repeating mistakes made in those buildings in new constructions ¹².

This study, therefore, set out to evaluate the performance of the female students' hostel at Waziri Umaru Federal Polytechnic, Birnin Kebbi, by measuring occupants' satisfaction with various components, facilities, and services provided in the hostel.

The Study Area

The study evaluated a 128-bed female students hostel constructed and christened MaimunaAdamuAleiro female hostel in Waziri Umaru Federal Polytechnic, Birnin Kebbi. It remains the only on-campus residentialfacility for female students of the institution. The hostel building is a framed building constructed from masonry units and comprising of two floors. Birnin Kebbi, the host community of Waziri Umaru Federal Polytechnic, is the capital city of Kebbi state in North-West Nigeria.

II. Research Methodology

The study population is MaimunaAdamuAleiro female hostel in Waziri Umaru Federal Polytechnic, Birnin Kebbi. The approach to the study is the descriptive survey method. Both qualitative and quantitative data were generated following the survey. The authors distributed questionnaires randomly to a minimum of two occupants in every hostel room on both floors of the building. The researchers retrieved eighty-two questionnaires. The closed-ended questionnaires elicited primary data. The questionnaires had two sections. The first section sought the demography of the respondents, including college in the institution and room location (ground floor or upper floor), while the second sought to know the level of satisfaction of the respondents with conditions and provisions in the hostel through eight satisfaction criteria viz.:

- Assessment of space performance and user's experience i.
- ii. Assessment of accessibility and circulation
- Assessment of level of satisfaction with facilities and services
- Performance of building envelope iv.
- V. Occupation density
- vi. Cleaning and maintenance
- vii. Security and privacy
- Proximity to essential facilities. 8, 13. viii.

Each satisfaction criteria had between one and twelve subjects of inquiry where respondents were required to score on the Likert scale of 1 to 5 (where 1=Very dissatisfied, 2=Dissatisfied, 3=Neither dissatisfied nor satisfied, 4=Satisfied and 5= Very satisfied), their levels of satisfaction with each subject of inquiry in all the above-mentioned criteria. The authors analyzed the data obtained from the survey by the Relative Satisfaction Index (RSI) viz.:

$$RSI = \frac{1n_1 + 2n_2 + 3n_3 + 4n_4 + 5n_5}{AxN} \times 100$$

 $RSI = \frac{1n_1 + 2n_2 + 3n_3 + 4n_4 + 5n_5}{AxN} \times 100$ Where RSI = Relative Satisfaction Index, n_1 is the number of subjects of inquiry with strongly dissatisfied, n_2 is the number of subjects of inquiry with dissatisfied, n₃ is the number of subjects of inquiry with neither satisfied nor dissatisfied, n₄ is thenumber of subjects of inquiry with satisfied, n₅ is the number of subjects of inquiry with strongly satisfied, N = total number of respondents and $A = \text{highest weight (5 in this case)}^{14}$.

The researcherscalculated overall satisfaction levels of the various satisfaction criteriabased on their MeanAggregate RSI viz.:

$$Mean\ Aggregate\ RSI = \frac{\sum RSI}{N}$$

Where $\Sigma RSI = Cumulative Relative Satisfaction Index for the particular criterion and N = number of subjects of$ inquiry considered under the particular satisfaction criterion 14. The interpretations of the mean RSI values areas presented in the table below:

Table no 1: Shows the interpretation of the mean RSI values.

- ***- * - * * * * * * * * * * * * * *			
RSI Score (%)	Satisfaction Level		
1 – 20	Very dissatisfied		
21 – 40	Dissatisfied		
41 – 60	Neither dissatisfied nor satisfied		
61 – 80	Satisfied		
81 - 100	Very satisfied		

Source: Ojo and Oloruntoba (2012) in 14

III. Results

Occupants on the ground floor were mostly dissatisfied with the hostel. The performance of the kitchen drew the least RSI of 21.08%. The location of staircases equals the width of stairs and drew the highest RSI of 58.38%. The satisfaction criterion of accessibility and circulation was the only variable that received an above-average score. In this case, occupants were neither satisfied nor dissatisfied.

Table no 2: Shows Occupants' Level of Satisfaction with Conditions and Provisions on the Ground Floorof the Hostel

	Subject of inquiry	RSI (%)	Ranking	Mean Aggregate	
	1. 7	(,		RSI (%)	
Satisfaction Criteria		25.45	4th	10.25	
Space Performance	Natural ventilation of the room	35.13	4 th	40.36	
and User's	The natural lighting of the room	45.41	3 rd		
experience	Artificial ventilation of the room	52.97	1 ST		
	Artificial lighting of the room	50.27	2 nd		
	Arrangement of room furniture	32.97	5 th		
	Nearness of conveniences	25.41	6th		
Accessibility and	Accessibility for persons with disability	27.43	7 th	50.56	
Circulation	Location of staircases	58.38	1 st		
	Location of lobbies and corridors	55.14	3 rd		
	Width of corridors and lobbies	51.35	5 th		
	Width of stairs	58.38	1 st		
	Height of risers	50.81	6 th		
	Depth of treads	52.43	4 th		
Facilities and	Water supply in the building	29.03	2 nd	26.29	
services	Effectiveness of wireless internet facility	27.03	3 rd		
	Adequacy of hand held fire extinguishers	22.16	9th		
	Alternative power supply	22.16	9 th		
	Vehicle parking facilities	23.78	8 th		
	Kitchen facilities	21.08			
	Laundry facilities	26.49	5 th		
	Toilet facilities	26.49	5 th		
	Bathroom facilities	27.03	3 rd	1	
	Salons and beauty parlours provided	24.86	7 th	1	
	Convenience store provided	41.08	1 st	1	
Performance of building envelope	Effectiveness of roof, doors and windows in keeping out the weather	32.97	1 st	32.97	
Occupation density	Number of students sharing the room	32.43	2 nd	28.05	
Occupation density	Number of students sharing the room Number of students sharing the kitchen	24.32	4 th	26.03	
	Number of students sharing the kitchen Number of students sharing the bathroom	23.78	5 th		
	Number of students sharing the bathroom Number of students sharing the toilet	23.78	6 th		
	Number of students sharing the tonet Number of students sharing the laundry	27.78	3 rd		
	Number of students sharing the raundry Number of students sharing the reception/waiting	36.76	1 st	1	
	room				
Cleaning and	Frequency of cleaning of the room	55.56	1 st	31.54	
Maintenance	Thoroughness in the cleaning of the room	45.71	2nd		
	Frequency of cleaning of the corridors and lobbies surrounding room	34.44	3 rd		
	Thoroughness in cleaning of the corridors and	32.78	4 th		
	lobbies surrounding room Frequency of cleaning of furniture and objects in	27.78	6 th	-	
	room	27.22	0.1	1	
	Frequency of cleaning of toilets	27.22	8th	ĺ	
	Frequency of cleaning of bathroom	27.78	6 th	4	
	Frequency of cleaning of kitchen	30.56	5 th	4	
	Frequency of cleaning of laundry	25.56	10th	4	
	Frequency of watering of trees, flowers and lawns in and around hostel	21.67	12 th		
	Maintenance of lawn	22.22	11 th	1	
	Immediacy of repair of replacement of faulty or	27.22	8 th		
0 ', 15'	damaged fittings/fixtures	47.65	1 Sf	41.40	
Security and Privacy	Security in hostel	47.65	1 st	41.40	
D	Privacy in hostel	35.15	_	27.00	
Proximity to	Proximity to school central library	20.57	6 th	25.90	
essential facilities	Proximity to classroom	24.57	4 th	4	
	Proximity to school clinic	25.14	2 nd	1	
				i .	
	Proximity to faith facility	37.71	1 st		
	Proximity to faith facility Proximity to the school sports facility Proximity to school entrepreneurship	25.14 22.29	2 nd 5 th	-	

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Respondents on the upper floor of the hostel block, however, indicated marginally higher satisfaction with the performance of the hostel facility as well as its services. The least RSI, in this case, was 25.45% noted for satisfaction with the frequency of watering of trees, flowers and lawns in and around hostel while the highest was 63.18% indicated for satisfaction with the width of stairs.

Table no 3: Shows Occupants' Level of Satisfaction with Conditions and Provisions on the Upper Floor of the Hostel

ral ventilation of the room ral lighting of the room cial ventilation of the room cial ventilation of the room cial lighting of the room gement of room furniture ness of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs nt of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply cle parking facilities	RSI (%) 45.33 54.01 44.55 53.33 59.05 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	Ranking 4th 2nd 5th 3rd 1st 6th 5th 5th 6th 2nd 1st 4th 3rd 1st 4th	Mean Aggregate RSI (%) 47.75 57.78
ral lighting of the room cial ventilation of the room cial lighting of the room gement of room furniture ness of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs to of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	54.01 44.55 53.33 59.05 30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	2nd 5th 3rd 1st 6th 7th 5th 6th 2nd 1st 4th 3rd 1st	47.75
ral lighting of the room cial ventilation of the room cial lighting of the room gement of room furniture ness of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs to of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	54.01 44.55 53.33 59.05 30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	2nd 5th 3rd 1st 6th 7th 5th 6th 2nd 1st 4th 3rd 1st	
ral lighting of the room cial ventilation of the room cial lighting of the room gement of room furniture ness of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs to of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	54.01 44.55 53.33 59.05 30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	2nd 5th 3rd 1st 6th 7th 5th 6th 2nd 1st 4th 3rd 1st	
icial ventilation of the room icial lighting of the room ingement of room furniture ness of conveniences sibility for persons with disability ition of staircases ition of lobbies and corridors in of corridors and lobbies in of stairs int of risers in of treads ir supply in the building itiveness of wireless internet facility ition of hand held fire extinguishers into the corridors and lobbies into th	44.55 53.33 59.05 30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	5 th 3 rd 1 st 6 th 7 th 5 th 6 th 2 nd 1 st 4 th 3 rd 1 st	57.78
icial lighting of the room regement of room furniture ress of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs nt of risers n of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	53.33 59.05 30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	3rd 1 st 6th 7th 5th 6th 2 nd 1 st 4th 3rd 1 st	57.78
ngement of room furniture ness of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs nt of risers n of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	59.05 30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	1 st 6th 7th 5th 6th 2nd 1 st 4th 3rd 1 st 4th 1	57.78
ness of conveniences ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs nt of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	30.22 50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	6 th 7 th 5 th 6 th 2 nd 1 st 4 th 3 rd 1 st	57.78
ssibility for persons with disability tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs nt of risers n of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	50.00 57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	7 th 5 th 6 th 2 nd 1 st 4 th 3 rd 1 st	57.78
tion of staircases tion of lobbies and corridors h of corridors and lobbies h of stairs ht of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	57.27 54.67 59.56 63.18 59.00 59.49 45.78 31.11	5 th 6 th 2 nd 1 st 4 th 3 rd 1 st	37.78
tion of lobbies and corridors h of corridors and lobbies h of stairs nt of risers h of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	54.67 59.56 63.18 59.00 59.49 45.78 31.11	6 th 2 nd 1 st 4 th 3 rd 1 st	
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nt of risers n of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	59.00 59.49 45.78 31.11	4 th 3 rd 1 st	-
n of treads r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	59.49 45.78 31.11	3 rd 1 st	
r supply in the building tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	45.78 31.11	1 st	1
tiveness of wireless internet facility uacy of hand held fire extinguishers native power supply	31.11	-	22.50
uacy of hand held fire extinguishers native power supply			32.50
native power supply		6 th	
	31.82	5 th	
cle parking facilities	37.21	2 nd	
	32.89	4 th	1
en facilities	28.44	10 th	
dry facilities	29.33	9 th	1
t facilities	30.67	7^{th}	
room facilities	30.23	8 th	
s and beauty parlours provided	26.67		
enience store provided	33.33	3 rd	
tiveness of roof, doors and windows in	40.95	1 st	40.95
	32.44		32.53
per of students sharing the kitchen	32.73		
per of students sharing the bathroom	32.89		
per of students sharing the toilet	32.89	3 rd	
per of students sharing the laundry	33.78	2 nd	
	36.44	1 st	
tion/waiting room			
iency of cleaning of the room	46.36	1 st	36.64
oughness in the cleaning of the room	44.09	4 th	
	45.12	3 rd	
oughness in cleaning of the corridors and	40.00	5 th	
iency of cleaning of furniture and objects	46.05	2 nd	
iency of cleaning of toilets	36.74	6 th	
	34.55	7 th	1
iency of cleaning of kitchen	32.73	8 th	1
	28.64	11 th	1
	25.45	12	1
	30.91	9 th	1
	29.09	10 th	1
		-	
	53.02	1 st	47.46
cy in hostel	41.90	2 nd	1
mity to school central library	33.18	4 th	33.94
mity to classroom	35.45	2 nd	1
	34.09	3 rd	4
	5 1.07		1
mity to school clinic	40.00	-	-
mity to school clinic mity to faith facility	40.00	1 st	-
mity to school clinic	40.00 31.16 29.77	-	-
	is and beauty parlours provided enience store provided titiveness of roof, doors and windows in ing out the weather ber of students sharing the room ber of students sharing the bathroom ber of students sharing the bathroom ber of students sharing the laundry ber of students sharing the laundry ber of students sharing the tion/waiting room tency of cleaning of the room tency of cleaning of the corridors and tency of cleaning of the corridors and tency of cleaning of the corridors and tency of cleaning of furniture and objects to the corridors of the tency of cleaning of the corridors and the surrounding room tency of cleaning of furniture and objects to the corridors of the tency of cleaning of the tency of the t	as and beauty parlours provided enience store provided 33.33 tiveness of roof, doors and windows in ng out the weather ber of students sharing the room 32.44 ber of students sharing the kitchen 32.73 ber of students sharing the bathroom 32.89 ber of students sharing the toilet 32.89 ber of students sharing the laundry 33.78 ber of students sharing the laundry 33.78 ber of students sharing the laundry 36.44 tion/waiting room 16.36 17.36 18.36 19.37 19.38 19.39 19.39 19.30 19.3	as and beauty parlours provided enience store provided enience store provided stiveness of roof, doors and windows in ng out the weather ber of students sharing the room ber of students sharing the kitchen ber of students sharing the bathroom ber of students sharing the bathroom ber of students sharing the toilet ber of students sharing the laundry ber of students sharing the laundry ber of students sharing the laundry ber of students sharing the ber of students sharing the laundry as the sharing the laundry ber of students sharing the laundry and the laundry as laundry ber of students sharing the laundry laundre of laundry laundre of laundry laundre of laundry laundre of laundre o

IV. Discussion

Ventilation and lighting are crucial in hostel facilities; however respondents on the ground floor of the hostel are dissatisfied with natural ventilation of their rooms. On both floors, they were neither satisfied nor dissatisfied with artificial provisions for lighting and ventilation.

Furthermore, results show that occupants were neither satisfied nor dissatisfied with provisions for accessibility and circulation.

As for facilities and services, respondents on the ground floor were dissatisfied with facilities and services such as water supply, internet facilities, handheld fire extinguishers, alternative power supply, vehicle parking facilities, kitchen, laundry, toilet and bathroom facilities as well as salon and beauty parlor. They were however, neither satisfied nor dissatisfied with the convenience store provided. On the upper floor however, respondents were neither satisfied nor dissatisfied with water supply in the building and dissatisfied with internet facilities, handheld fire extinguishers, alternative power supply, vehicle parking facilities, kitchen, laundry, toilet, and bathroom facilities as well as salon and beauty parlor. The results also show a below-average performance of the building envelope, particularly in keeping out the weather. Findings show that occupants are dissatisfied with the density of occupation of the hostel. On cleaning and maintenance of the hostel, results show that the occupants are mostly dissatisfied with the thoroughness and frequency of the cleaning done.

Also, results show that occupants on the upper floor feel more secure and enjoy more privacy than those on the ground floor. In any case, they are neither satisfied nor dissatisfied. The hostel building has no perimeter fence, thus compromising its security and privacy, particularly on the ground floor.

The hostel building stands aloof in a corner of the Polytechnic, and results show the dissatisfaction of respondents with its proximity to essential facilities on campus.

Table no. 4: Shows Summary of Total Satisfaction Level of Occupants on the Ground Floor.

Satisfaction Criteria

Mean Aggregate RSI (%)

Response

	Satisfaction Criteria	Mean Aggregate RSI (%)	Ranking	Response
SN				
1	Space performance and User experience	40.36 (Approx. 40)	3 rd	Dissatisfied
2	Accessibility and Circulation	50.56	1 st	Neither Satisfied nor
				Dissatisfied
3	Facilities and Services	26.29	7 th	Dissatisfied
4	Performance of Building Envelope	32.97	4 th	Dissatisfied
5	Occupation Density	28.05	6 th	Dissatisfied
6	Cleaning and Maintenance	31.54	5 th	Dissatisfied
7	Security and Privacy	41.40	2 nd	Neither Satisfied nor
				Dissatisfied
8	Proximity to Essential Facilities	25.90	8 th	Dissatisfied

The Summary of Total Satisfaction Level of Occupants on the Upper Floor shows a slight improvement on that of occupants on the ground floor. The best-reported satisfaction criterion is the same for both stories.

Table no. 5: Shows Summary of Total Satisfaction Level of Occupants on the Upper Floor.

	Satisfaction Criteria	Mean Aggregate RSI (%)	Ranking	Response	
SN					
1	Space performance and User experience	47.75	2 nd	Neither Satisfied nor Dissatisfied	
2	Accessibility and Circulation	57.78	1 st	Neither Satisfied nor Dissatisfied	
3	Facilities and Services	32.50	8th	Dissatisfied	
4	Performance of Building Envelope	40.95 (Approx. 41)	4 th	Neither Satisfied nor Dissatisfied	
5	Occupation Density	32.53	7 th	Dissatisfied	
6	Cleaning and Maintenance	36.64	5 th	Dissatisfied	
7	Security and Privacy	47.46	3 rd	Neither Satisfied nor Dissatisfied	
8	Proximity to Essential Facilities	33.94	6 th	Dissatisfied	

v. Conclusion

The researchset outto evaluate the performance of the on-campus accommodations for female students of Waziri Umaru Federal Polytechnic, Birnin Kebbi. The researchersmeasured students' satisfaction with the hostel building, its components, facilities, and services (dubbed in this paper 'satisfaction criteria') rendered in the hostel. These satisfaction criteria, which were measured, also included proximity of hostel to essential buildings in the institution.

The study found that the students expressed dissatisfaction with most of the criteria measured, thus showing that the performance of the hostel is not satisfactory.

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