



SCHOOL OF ENVIRONMENTAL TECHNOLOGY,

FEDERAL UNIVERSITY OF TECHNOLOGY

MINNA, NIGER STATE, NIGERIA

EDITORS IN CHIEF

R. E. Olagunju

B. J. Olawuyi

SETIC E. B. Ogunbode INTERNATIONAL CONFERENCE

BOOK OF PROCEEDINGS

MAIN THEME:

Sustainable Housing And Land Management





SCHOOL OF ENVIRONMENTAL TECHNOLOGY COMPLEX, FUT, MINNA, NIGER STATE, NIGERIA

Chief Host

Prof. Abdullahi Bala, FSSSN

Federal University of Technology Minna, Nigeria

Host:

Prof: R.E. Olagunju mnia

Dean, School of Environmental Technology Interal University of Technology Mises, Nigel

School of Environmental Technology International Conference (SETIC 2020)

3RD - 5TH MAY, 2021

Federal University of Technology Minna, Niger State, Nigeria

CONFERENCE PROCEEDINGS

EDITORS IN CHIEF

R. E. Olagunju

B. J. Olawuyi

E. B. Ogunbode

ISBN 978-978-54580-8-4

Proceedings of The 3rd School of Environmental Technology International Conference (SETIC 2020)

Published by

School of Environmental Technology, Federal University of Technology Minna. PMB 65, Minna, Niger State Nigeria.

© School of Environmental Technology, Federal University of Technology Minna 2021

ISBN 978-978-54580-8-4

Editors-	Prof. Olagunju Remi Ebenezer	Federal University of Technology Minna.	
in-chief:		Niger State, Nigeria	
	Dr. Olawuyi Babatunde James	Federal University of Technology Minna.	
		Niger State, Nigeria	
	Dr. Ogunbode Ezekiel Babatunde	Federal University of Technology Minna.	
		Niger State, Nigeria	
Editors:	Dr. Akande Olufemi K	Federal University of Technology Minna.	
		Niger State, Nigeria	
	Dr. Sule Abass Iyanda	Federal University of Technology Minna.	
		Niger State, Nigeria	
	Dr. Ajayi Oluibukun Olugbenga.	Federal University of Technology Minna.	
		Niger State, Nigeria	
	Dr. Odumosun Joseph Olayemi	Federal University of Technology Minna.	
		Niger State, Nigeria	
Surv. Adesina Ekundayo A Federal University		Federal University of Technology Minna.	
		Niger State, Nigeria	
	Mr. Gbenga Morenikeji	Federal University of Technology Minna.	
		Niger State, Nigeria	
	Assoc. Prof. Dr. James O.B. Rotimi	Massey University New Zealand	
	Asst. Prof. Dodo Yakubu Aminu	Gelisim University Istanbul, Turkey	
	Dr. Babafemi Adewumi John	nn University of Stellenbosch, South Africa	

No responsibility is assumed by the Publisher for any injury and/or any damage to persons or properties as a matter of products liability, negligence or otherwise, or from any use or operation of any method, product, instruction, or idea contained in the material herein.

Copyright © 2021 by School of Environmental Technology, Federal University of Technology Minna, Nigeria. All rights reserved.

This publication is protected by Copyright and permission should be obtained from the publisher prior to any prohibited reproduction, storage in a retrieval system, or transmission in any form or by any means, electronic, mechanical, photocopying, recording, or likewise.

PREFACE

The School of Environmental Technology International Conference (SETIC 2020) is organised by School of Environmental Technology, Federal University of Technology Minna, Nigeria. In collaboration with Massey University New Zealand, Department of Civil Engineering Faculty of Civil Engineering and Built Environment Universiti Tun Hussein Onn Malaysia, Malaysia Centre For Professional Development and Industrial Project Development School of Professional and Continuing Education (SPACE) UTM-KL Malaysia, Global Academia, Department of Architecture, Faculty of Engineering and Architecture, Istanbul Gelisim University Istanbul Turkey, Sustainable Environmental and Technology (SET) Research Group, Department of Architecture, Universiti Sains Islam. The main theme for this year conference is "SUSTAINABLE HOUSING AND LAND MANAGEMENT". This promotes and encourage innovative and novelty for policy issues for inclusive and sustainable housing, access to finance for housing and land development, sustainable building materials, building cost management, sustainable and resilient cities, geoinformatics for land management, rapid urbanization, sustainable land use and spatial planning, gender issues in access to land.

The responses from participants for this conference are overwhelming, well attended, and successful. The operation mode was Virtual for all participants who choose the oral presentation mode. While, Physical for all poster medium presenters. Our participants are from various Universities and other sector across the globe, from countries like United State for America (USA), Turkey, Malaysia, China, Saudi Arabia, Kenya, New Zealand just to mention a few. Hence, this conference provides a good platform for professionals, academicians and researchers to widen their knowledge and approach on latest advances in research and innovation. Papers presented in this conference cover a wide spectrum of science, engineering and social sciences.

Finally, a note of thanks must go to SETIC 2020 Local Organizing Committee (LOC) for their remarkable dedication in making this conference a success. We hope the event will prove to be an inspiring experience to all committee members and participants.

ACKNOWLEDGEMENTS

The effort put together in achieving the success of SETIC 2020 is predicated on the feat of the first and second edition of School of Environmental Technology International Conference held in 2016 and 2018, respectively. The support and goodwill from Vice-Chancellor of Federal University of Technology, Dean School of Environmental Technology, Dr Dodo Y. A., Dr Moveh S. and many other highly motivated people are highly appreciated.

It is also my privilege and honour to welcome you all, on behalf of the Local Organizing Committee (LOC) to the 3rd edition of the Biennial School of Environmental International Conference (SETIC 2020). This Conference which was earlier schedule for 7th to 11 April, 2020 is holding now (3rd to 5th May, 2021) due to the challenges of COVID-19 Pandemic and the ASUU-FGN crisis which made our public Universities in Nigeria to be closed for about one year. We thank God for keeping us alive to witness the great SETIC2020 event, in an improved form exploiting the new-normal situation posed by the Pandemic for a hybrid (i.e. both physical and virtual) form of Conference participation.

The conference provides an international forum for researchers and professionals in the built environment and allied professions to address fundamental problems, challenges and prospects Sustainable Housing and Land Management. The conference is a platform where recognized best practices, theories and concepts are shared and discussed amongst academics, practitioners and researchers. This 2020 edition of SETIC has listed in the program a Round Table Talk on Housing Affordability beyond COVID-19 with selected Speakers from across the globe available to do justice on the topic of discussion.

Distinguished Conference participants, permit me to warmly welcome our Keynote and Guest Speakers:

- Prof. Ts. Dr. Mohd Hamdan Bin Ahmad, Deputy Vice Chancellor (Development) Universiti Technology Malaysia (UTM);
- Assoc. Prof. Dr. James O.B. Rotimi, Academic Dean Construction, School of Built Environment, College of Sciences, Massey University of New Zealand;
- Assoc. Prof. Sr. Dr. Sarajul Fikri Mohammed, General Manager, Centre for Professional Development and Industrial Project Development School of Professional and Continuing Education (SPACE), UTM-KL.
- Prof. Ts. Dr. Zanail Abidin Akasah, Visiting Professor on Sustainable Solar Integrated Design Building Design, International Micro Emission University (IMEU)/HIMIN Ltd. China & Senior Research Fellow, The Architects Resourcery, Jos, Nigeria;
- Ar. Dr. Elina Mohd Husini, Department of Architecture, Faculty of Engineering & Built Environment, Universiti Sains Islam;
- Asst. Prof. Dr. Yakubu Aminu Dodo, Department of Architecture, Faculty of Engineering and Architecture Istanbul Gelisim University, Istanbul Turkey

and the five Speakers for our Round Table Talk on Housing Affordability Beyond COVID-19

- Dr. Muhammad Mustapha Gambo, Manager, Policy, Research and Partnerships, Shelter Afrique, Nairobi, Kenya;
- Prof. Dr. Soumia Mounir, Department of Architecture Ecole Nationale d'Architecture d'Agadir [The National School of Architecture of Agadir], Morocco

- Dr. Said Alkali Kori, General Manager, Projects and Portfolio management, Family Homes Fund, Federal Ministry of Finance, Abuja;
- Ts. Dr. Sasitharan Nagapan, Department of Civil Engineering, Faculty of Engineering and Built Environment, Universiti Turn Hussein Onn Malaysia, Malaysia;
- Dr. Mercy Nguavese Shenge, AIA Assoc. Historic District Commissioner, City of Rockville, MD, USA.

for accepting to share from their knowledge, wealth of experience and be available to interact with participants on varied issues on "Sustaining Housing and Land Management".

As reflected on the Conference program, the Conference activities will be Virtual for power point presenters to run in four parallel sessions on the Zoon platform while the participants for Poster presentations (mostly Postgraduate students) are expected to have their Posters displayed in the Environmental Complex Building of the Federal University of Technology, Minna. With a total of One Hundred and One (101) articles captured in the Conference Proceedings covering the seven subthemes of the Conference, I have no doubt that we are all in for an impactful experience at SETIC2020 as we brainstorm, exchange ideas, share knowledge and participate in evolving more approach to sustainable housing and land management drives.

I implore us all to enjoy every moment of the deliberations and ensure we maximize the great opportunity offered by the Conference to network for better research and career development as we also make new friends.

I also on behalf of myself and the LOC express our appreciation to the Dean, School of Environmental Technology and the entire Staff of the School for giving us the opportunity to steer the ship for SETIC2020. To the Reviewers and various Committees that served with us, I say thank you for helping us through despite the pressure of work.

Thanks, and God bless you all.

Olawuyi, B.J. (PhD) Chairman, LOC SETIC2020

COPYRIGHT STATEMENT

© Copyright. School of Environment International Conference (SETIC) 2020. The copyright for papers published in the SETIC Conference Proceedings belongs to authors of the papers.

Authors are allowed to reproduce and distribute the exact format of papers published in the SETIC Conference Proceedings for personal and educational purposes without written permission but with a citation to this source. No unauthorized reproduction or distribution, in whole or in part, of work published in the SETIC Conference Proceedings by persons other than authors is allowed without the written permission of authors or organizers of the SETIC Conference.

We have taken all necessary cautions to comply with copyright obligations. We make no warranties or representations that material contained in the papers written by authors do not infringe the intellectual property rights of any person anywhere in the world. We do not encourage support or permit infringement of copyrights / intellectual property rights by authors. Should you consider any violation of your copyrights please do not hesitate to contact the conference secretariat at setic@futminna.edu.ng

SETIC accepts no liability for copyright infringements or inappropriate use of material in any paper published. All authors developed their papers in line with the guiding principles of academic freedom and are responsible for good academic practice when conducting and reporting scientific research.

Correspondence relating to copyrights and requests for permission to use material from the SETIC Conference Proceedings should be made to: Secretariat of SETIC Conference email: setic@futminna.edu.ng

DECLARATION

PEER REVIEW AND SCIENTIFIC PUBLISHING POLICY STATEMENT

3rd MAY 2021

TO WHOM IT APRIL CONCERN

I wish to state that all the papers published in SETIC 2018 Conference Proceedings have passed through the peer review process which involved an initial review of abstracts, blind review of full papers by minimum of two referees, forwarding of reviewers' comments to authors, submission of revised papers by authors and subsequent evaluation of submitted papers by the Scientific Committee to determine content quality.

It is the policy of the School of Environmental Technology International Conference (SETIC) that for papers to be accepted for inclusion in the conference proceedings it must have undergone the blind review process and passed the academic integrity test. All papers are only published based on the recommendation of the reviewers and the Scientific Committee of SETIC

Babatunde James OLAWUYI Chairman SETIC 2020 Federal University of Technology, Minna, Nigeria

Papers in the SETIC 2020 Conference Proceedings are published on www.futminna.edu.ng, AND ALSO SELECTED PAPERS WILL BE PUBLISHED IN REPUTABLE JOURNALS















ORGANISING COMMITTEE

CHIEF HOST

Prof. Abdullahi Bala

Vice-Chancellor, Federal University of Technology Minna, Nigeria

HOST

Prof. Olagunju Remi Ebenezer

Dean

School of Environmental Technology, Federal University of Technology Minna, Nigeria

CONFERENCE CHAIRS

Conference Chair	Parallel Sessions	
Dr. Opaluwa D. Y.	Geoinformatics for Land Management	
Prof. Kemiki O.	Building Cost Management	
Prof. (Mrs) Zubairu S. N.	Gender Issues in Access to Land	
Prof. Nuhu M. B.	Access to Finance for Housing and Land Development	
Prof. Ajayi M.T.A	Policy Issues for Inclusive and Sustainable Housing	
Prof. Sanusi Y.A	Rapid Urbanization, Sustainable Land Use and Spatial	
	Planning	
Prof. Jimoh R.A. Sustainable Building Material		

CONFERENCE ADVISORY COMMITTEE

Asso. Prof. Ayuba P.	HOD, Department of Architecture	
Prof. Jimoh R. A.	HOD, Department of Building	
Prof. Kemiki O. A	HOD, Department of Estate Management and Valuation	
Dr. Mohammed Y.	HOD, Department of Quantity Surveying	
Prof. Musa A.	HOD, Department of Surveying and Geoinformatics	
Prof. Umaru E. T.	HOD, Department of Urban and Regional planning	

LOCAL ORGANIZING COMMITTEE

Dr. Olawuyi B. J.	Chairman	Department of Building, Federal University of
		Technology Minna, Nigeria
Surv. Adesina E. A.	Secretary	Department of Surveying and Geoinformatics,
		Federal University of Technology Minna, Nigeria
Dr. Ogunbode E. B.	Member	Department of Building, Federal University of
		Technology Minna, Nigeria
Dr. Sule A. I.	Member	Department of Estate Management and
		Valuation, Federal University of Technology
		Minna, Nigeria
Dr. Akande O. K	Member	Department of Architecture, Federal University
		of Technology Minna, Nigeria
Dr. Adamu A.	Member	Department of Quantity Surveying, Federal
		University of Technology Minna, Nigeria
Dr. Ajayi O.O.	Member	Department of Surveying and Geoinformatics,
		Federal University of Technology Minna, Nigeria
Dr. Morenikeji G.	Member	Department of Estate Management and
		Valuation, Federal University of Technology
		Minna, Nigeria
Dr. Mohammed B.B.	Member	Urban and Regional planning, Federal University
		of Technology Minna, Nigeria
Dr. Hassan I.O.	Member	Department of Building, Federal University of
		Technology Minna, Nigeria

SCIENTIFIC COMMITTEE

Prof. Musa A.	Chairman	Department of Surveying and Geoinformatics,
		Federal University of Technology Minna,
		Nigeria
Mr. Kuma S. S.	Secretary	Department of Estate Management and
		Valuation, Federal University of Technology
		Minna, Nigeria
Dr. Bilau A. A	Member	Department of Building, Federal University of
		Technology Minna, Nigeria
Dr. Ibrahim Saidu	Member	Department of Quantity Surveying, Federal
		University of Technology Minna, Nigeria
Dr. Musa Haruna	Member	Urban and Regional planning, Federal University
		of Technology Minna, Nigeria
Dr. Odumosu J. O.	Member	Department of Surveying and Geoinformatics,
		Federal University of Technology Minna,
		Nigeria
Dr. Isah A. D.	Member	Department of Architecture, Federal University
		of Technology Minna, Nigeria

PROFILE OF KEYNOTE SPEAKERS AND GUEST SPEAKERS

SETIC 2020 organisers wishes to thank our keynote speakers, and Guest speakers for accepting to create time to share from their rich wealth of knowledge and interact with delegates and participants on varied issues being examined at this year's conference. A brief profile of each keynote speaker is provided here, this would allow for future interaction and networking with them.



ROUND TABLE PANEL SPEAKERS



TABLE OF CONTENT

	TABLE OF O	CONTENT	
S/No	Title	Author	Page No
	Methodological Approaches to The Socio-Cultural Studies in		C
1	Residential Estates	Abidoye, K.M. & Sagada, M.L.	A-2
	Assessment of Fire Safety Compliance (FSC) in Nigerian Markets:	Longtau, P., Majidadi, T. S. &	
2	Case Study of Selected Markets in Three (3) Geopolitical Zones	Arowolo,T.	A-11
~	A Critique of the Trusteeship Position of the Governor in the	110,010,11	11 11
3	Land Use Act	Bokani, A.M. & Liman, Y.	A-21
3	Impact of The Land Use Act on Sustainable		A-21
4	Housing Development in Nigeria from 1978-2018	Bokani, A. M., &	A-31
4		Mohammed, A. W.	A-31
-	A Review of Sustainable Energy Conservation for Residential	Adeniji, S.M., Muhammad, I.S. &	A 41
5	Buildings	Isah, A.D.	A-41
	Strategies for Disputes Reduction in the Nigerian Construction	Aka, A., Omotosho, A.O. &	
6	Process	Salisu, O.I.	A-51
	Assessment of the Determinants of Risk Management Capabilities	Yamusa, M.A., Abdullahi, M.,	
7	and Commitments in Public Private Partnerships Projects	Bello, A.S.& Bello, A.K.	A-61
	Management Options for Some Selected Peri-Urban Areas of		
8	Kaduna Metropolis, Kaduna State, Nigeria	Sunday Kazahshii Habila	A-71
	Allocation of Emerging Risks of E-Communication in Public		
9	Private Partnership Projects in Nigeria	Bashir, A.S. & Muhammad, A.	A-81
	Assessment of Energy Conservation Measures in the		
	Design of Postgraduate Student Hostels in Northern	Ojochegbe, I. &	
10	Nigerian Universities	El-Hussain, A.	A-88
	Conceptual Framework for an Effective Management of	Yusuf, B. G., Bashir, O. G.,	
	PublicPrivate Partnership Infrastructure Project Stakeholders to	Luqman, O. O. & Abdulganiyu, A.	
11	Minimise Project Failure in North Central, Nigeria.	O.	A-97
11	A Review of Housing Potentials in Curbing Pandemic: A Post Covid-		11) /
	19		
12		Idris, H. A., Mailafiya, B. Y. &	A-107
12	Analysis	Abdulrazak, B	A-107
10	Assessment of an Integrating Design Approach of Passive Cooling	CI C I O DI II. A	
13	Principles in Hotels In Minna, Nigeria	Shamfe, I., & Philip, A.	A-118
	Assessment of Procurement Risks in FIRS Building	Zubairu, H. &	
14	Construction Projects in Nigeria	Saidu, I.	B-2
	Energy Pricing and Poverty in Sokoto City, North West Nigeria:		
15	A Lesion in Green House Gas Reduction	Ashiru, B., & Sabiu, B. Y	B-12
	Assessment of the Adoption of Building Information Modelling	Monejo, T. B &	
16	(Bim) in the Nigerian Construction Industry	Makinde, J. K	B-21
	Sustainable Building Material for Green BuildingConstruction and		
17	Conservation	Ninalowo, R.O. & Zubairu, S.N.	C-2
	Evaluation of the Compressive Strength of Concrete Using Bush		
18	Gravel as Coarse Aggregates Partially Replaced with Broken Bricks	Baba, T., Olaleru, J., & Alhaji, B.	C-9
	Comparative Compressive Strengths of Concrete Using Wood Ash	Olaleru, J., Baba, T.	
19	and Cow Bone Ash as Partial Replacement for Cement	& Abdullahi, A.	C-16
• /			0.10
	Assessing Some Mechanical Properties of Reinforcement Bars Made		
	From Recycled Metals as A Panacea to Sustainable Use of		
20	Reinforcement as Building Material	Rello II & Thebite S	C-25
20	Remorement as building waterial	Bello, U. & Thabita, S.	C-23
	Evaluation of the Cionificance of Timber A. C	Emachaba I C E C I O	
~ -	Evaluation of the Significance of Timber as A Source of Sustainable		C 22
21	Building Material in Owerri, Nigeria	Akane, O.K	C-32
	An Investigation of Fire Resistance Performance	_	~
22	of Ceiling Materials	Longtau, P.	C-42
		Adeniyi, S. O., Mohamed, S. F.,	
	Benefits of Using Green Materials for the Construction of Low-Cost	Mohammed Y., Z.,	
	Building	Mohammed S., M., & Ola-awo A.	
23	in Nigeria	W	C-52
	Influence of Magnesium Sulphate on the Compressive Strength of		
	Internal Cured (IC) Rice Husk Ash based High Performance	Mudashiru, S. A., Olawuyi, B. J.,	
24	Concrete	Ayegbokiki, S. T.2 & Ndayako, S.K	C-60
	Optimizing the compressive strength of binary mixtures of	· ·	
25	laterite-sand cement mortar	Adetona, A. & Alao, T.O	C-63
		,	
	Evaluation of Strategies for Implementation of Quality Management		
26	Practice in Nigerian Construction	Abdulrahman, I. & Aka, A.	C-71
20	Assessment of Lean Techniques for Building Materials Waste	rodunamiani, r. & Aka, A.	C / 1
27	Minimization in Abuja, Nigeria	Ango A & Soidu I	C 84
21	• •	Ango, A. & Saidu, I.	C-84
~~	Evaluation of Shear Bond Strength of Geopolymer Mortar	Wuna M.A, Nmadu H.G , &	0.00
28	Containing Cassava Peel Ash and Metakaolin	Ogunbode, E.B	C-96
	Utilization of Quarry Dust as Partial Replacement of Sand in	Garba, A., Saidu, A.,	G 10.5
29	Sandcrete Blocks	Adamu, A.I. & Dalhat, A.S.	C-106

Assessment of Shredded Waste Poly-Ethylene Terephtha Bottles Usage as Coarse Aggregate in Lightweight SHA	Based Yahaya T. A., Alao T.O.	C 112
30 Concrete Composite Influence of Material Waste Management on Construction 21 Delivers in Abrila Waste Management on Construction	n Project Garba. Y. Y., Yisa. S. N. &	C-113
31 Delivery in Abuja, Nigeria 32		C115
Characteristics and Properties of Rice Husk Ash Based F 33 Concrete Manufactured with Waste Metallized Plastic Fi	Im Fibre and Shehu M. A.	C121
Influence of Supervision on Labour Productivity of Finish 34 in Ibadan, Oyo state Analysis of Stakeholder Management of Construction Pro	M. I. & Mohammed, M. N	D-2
Ahaysis of Stakeholder Wahagement of Constitution Fits Abuja, 35 Nigeria	•	D-12
Factors influencing building materials price fluctuation in 36 Nigeria	Abuja,	D-23
Assessment of the Effect of Materials Procurement Risks		D 23
on Time, Cost and Quality Performance of Building Proje		D 24
37 Abuja, Nigeria Participation of Female Quantity Surveyors in the Nigeria		D-34
38 Construction Industry		D-44
39 Effects of Skill Gap on Labour Productivity on Construct		D-52
Challenges and Prospects of the use of Technology in the 40 Construction Industry in Ogun state, Nigeria.		D-60
Evaluation of Cost Management in Building Maintenance		D-00
41 Contractors	Bello, U. & Nasir, G.	D-69
Assessment of Factors Influencing the Various Procurem	ent Methods	
42 in the Delivery of Commercial Building Projects in Abuja	•	D-75
E-Procurement Implementation in the Public Constructio 43 Nigeria: A Review	•	D-84
Effect of Cash Flow on Contractors' Performance in Buil	•	D 01
44 Construction Projects in Niger State SQL-Driven Spatial Database Transactions in Support of		D-91
45 Land Acquisition for Road Expansion Projects	Ataguba, J.O. & Kemiki, O.A.	D-101
Cost of Implementing Health and Safety Measures in 46 Construction Projects in Abuja, Nigeria	Khairat H. M., Yakubu M. D. & Helen, M. G.	E-2
Integration of Passive Energy Efficient Design Elements 47 Office Complex, Abuja, Nigeria	for	E-8
Potentials of Effective Urban Planning as Tool for	0	F 15
48 Disaster Risk Reduction in Nigeria Assessment of cost control techniques on road construction	•	E-17
49 project delivery in FCT Abuja, Nigeria	1	E-27
Assessment of Crime Prevention Through Environmental (Cpted) in Shopping Malls in Nigeria: A Case of Ceddi P	•	
50 Nigeria	Aliyu, U. & Zubairu, S. N.	E-36
Assessment of Eco-Friendly Principles in Tthe Design of 51 Hotel at Life Camp in Abuja, Nigeria		E-47
Assessment if Indoor Thermal Performance for Sustainab		L 17
52 Housing Facility in Minna, Nigeria Climate Change Adaptation and Sustainable Ecofriendly	•	E-59
53 Transit Development in Abuja, Nigeria		E-71
Assessment of Factors Affecting Performance of Constru 54 Organisations in Abuja, Nigeria	W. A. & Adamu, A. D.	E-82
Developers Readiness for Green Affordable Housing deli 55 Nasarawa Local Government, Kano State, Nigeria	•	E-92
The Nexus between Social Infrastructure and Residents V	Vellbeing: Ijuo, S. &	
56 A Review	Musa, H. D.	E-104
Assessement of the Prospects and Challenges of E-Procus 77 Practices on Construction Project Delivery in Abuja, Nig		E-114
Project Managers' Performance on Sustainable Construct		
Residential 58 Estates in Abuja, Nigeria.	Belgore, U & Makinde, J. K.	E-125
An Assessment of Users' Satisfaction with the Adequacy	of Security	
59 Measures in Mixed-use Buildings in Abuja	Adam, A.M. & Olagunju, R.E. Mohammad Yamman USMAN,	E-137
Assessment of the Resilience-related Capabilities of Hou-		
60 Bida Town, Niger State, Nigeria	Usman YAHAYA	E-144
Impacts of Urban Poultry Farm Activities on Water Quali	ty in Kuje	
61 Suburbia, Abuja	Auta, F.D. & Musa, H.D.	E-154

Residential Property Use Conversion and Rental Value Trends in	Ankeli, A. I., Nuhu, M. B.,	
Osogbo,	Sule, A. I., Popoola, N. I.,	
62 Nigeria	Ankeli, U. C.3	E-163
Water Scarcity Problem and Households' Adaptation Strategies:		
63 Evidence from Literature	Owuri, A. & Sanusi, Y.A.	E-174
Evaluation of Passive Cooling Design Considerations in Faculty of		
Basic Medical		
64 Science Buildings in Northern Nigeria	Usman, S. M & Ayuba, P.	E-185
Policy Issues and Integration Settlement for Sustainable Developmen	ıt	
65 in FCT Abuja	Unah Mathew Okopi	E-193
Employing Proxemics Communication Strategies in Evaluating	Kabir, M.A., lkali, I.A., El-nafaty,	
66 Prototype Design in Educational Buildings	A.S. & Dodo, Y.A.	E-202
	Aliyu, A. A., Ojobo, H.,	
67 Indoor Occupancy Detection using Machine Learning Techniques	Danlami, N. J. & Dodo, Y. A.	E-213
Behaviour and Functioning of Children Hospitalized in Nigerian	Usman B.W, Ojobo H, Umar, &	
68 Conventional Hospital Ward Setting	Isa A., Ogunbode E.	E-223
Towards Developing Standards for Earthquake Resilience and	-	
69 Sustainability of Public Buildings in Abuja, Nigeria.	Bulama, H. H, and Akande, O.	E-235

Assessment of Design Method on Fire Prevention Strategies for High 70 Rise Buildings in Lagos, Nigeria	Muhammad R. & Eze, C. J	E-245
Mechanism for Building Standards: Towards an Effective Building 71 Control Practice in the Federal Capital Territory (FCT), Abuja. Evaluation of Market Fire Hazard Awareness and Preparedness in	Fadare, O.A., Isa, R.B. & Bilau, A.A. Ayinla K., Akanmu W. &	E-255
72 Minna Metropolis	Oyerinde D.	E-265
Appraisal of Households' Resilience to Social Shocks in Bida Town, 73 Niger State, Nigeria	Wanciku, Y.	E-278
Evaluation of Factors Influencing the Adoption of Building 74 Information Modelling for Facility Management in Abuja, Nigeria	Adelusi, C., Adamu, A. & Shittu, A.	E-289
Evaluation of the Roles of Niger State Housing Corporation under Public-Private Partnership as Strategy for Public Housing Delivery in 75 Niger State Assessment of Facility Management Practices in Selected Public 76 Health Care Facilities in Niger State	Jonathan, S.1, Sule, I. A. & Ogunbode, B. E. Yusuf, S., Bajere P.A. & Ogunbode, E.B.	E-300 E-307
Evaluation of Passive Security Measures for Tourism Development 77 in Nigeria	Hayes, N.Y. & Isah, A.D Gwamna, E., Usman, M., Salihu, N.	F-2
78 Factors Influencing Land Use Changes and Conversion: A Critical Ro	& g Alalade, G.	F-12
Solid Waste Disposal Site Suitability Analysis Within Jalingo 79 Metropolis, Taraba State, Nigeria	Gbedu, A.M., Atenji, & D. E., Adeniyi, G.	F-22
Appraisal of Informal Access to Land for Housing Delivery in Karu 80 Urban Area of Nasarawa State, Nigeria The Characteristics of Kaduna Metropolitan Solid Waste	Sulyman, A. O & Danladi, A. A. Sunday Kazahshii Habila &	F-33
81 Management Practices Development of a Geospatial Information Software for Cadastral	Laraba Samuel Rikko	F-44
Survey Data 82 Processing and Management Piping Investigation of Kiri Dam Located in Shelleng L.G.A,	Ajayi, O.G., Ajibade, S.A. and Abdullahi, A.K	F-55
Adamawa State, 83 Nigeria, Using Seep/W	Mohammed, A. B.	F-67
Assessment of Household Knowledge and Practice of Solid Waste 84 Characterization in Kaduna Metropolis	Yakubu, K. N. & Babagana, A.	F-76
· · · · · · · · · · · · · · · · · · ·	Yakubu, K. N. & Babagana, A. Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A.	F-76 F-86
84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T.,	
84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability 86 Assessment of Part of Minna, Niger State, Nigeria 87 Flood Inundation Mapping of Gbaganu Area Minna, Niger State	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B	F-86
84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability 86 Assessment of Part of Minna, Niger State, Nigeria	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A &	F-86 F-97
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A	F-86 F-97 F-109
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G.	F-86 F-97 F-109 F-119
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability 86 Assessment of Part of Minna, Niger State, Nigeria 87 Flood Inundation Mapping of Gbaganu Area Minna, Niger State Collaboration Among Construction Professionals on Building 88 Information Modelling (Bim) Implementation in Abuja, Nigeria Automatic Extraction of Farmland Boundary Lines from Satellite Imagery 89 Using Fully Convolutional Networks – A Review Prospectivity Mapping for Gold (Au) Mineralization Using LandSAT 90 8 OLI Data in Rafi Local Government Area of Niger State, Nigeria 	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G.	F-86 F-97 F-109 F-119 F-130
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability 86 Assessment of Part of Minna, Niger State, Nigeria 87 Flood Inundation Mapping of Gbaganu Area Minna, Niger State Collaboration Among Construction Professionals on Building 88 Information Modelling (Bim) Implementation in Abuja, Nigeria Automatic Extraction of Farmland Boundary Lines from Satellite Imagery 89 Using Fully Convolutional Networks – A Review Prospectivity Mapping for Gold (Au) Mineralization Using LandSAT 90 8 OLI Data in Rafi Local Government Area of Niger State, Nigeria Assessment of Geothermal Potential within the Basement Region of 91 Kogi State, Using Aeromagnetic Data 	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G.	F-86 F-97 F-109 F-119 F-130
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability 86 Assessment of Part of Minna, Niger State, Nigeria 87 Flood Inundation Mapping of Gbaganu Area Minna, Niger State Collaboration Among Construction Professionals on Building 88 Information Modelling (Bim) Implementation in Abuja, Nigeria Automatic Extraction of Farmland Boundary Lines from Satellite Imagery 89 Using Fully Convolutional Networks – A Review Prospectivity Mapping for Gold (Au) Mineralization Using LandSAT 90 8 OLI Data in Rafi Local Government Area of Niger State, Nigeria Assessment of Geothermal Potential within the Basement Region of 91 Kogi State, Using Aeromagnetic Data Application of Electrical Resistivity Method to Delineate Construction Sites at Gidan Kwano Campus, FUT, Minna, Niger 92 State, Nigeria 	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G. Aransiola, A. B. & Odumosu, J. O. Fidelis I. Kwaghhua, & Adetona, A. A O. R. Ebute, U. D. Alhassan & A. A. Rafiu	F-86 F-97 F-109 F-119 F-130
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G. Aransiola, A. B. & Odumosu, J. O. Fidelis I. Kwaghhua, & Adetona, A. A O. R. Ebute, U. D. Alhassan & A. A. Rafiu Adeniyi, G, Gbedu, A. M. & Opaluwa, Y. D	F-86 F-97 F-109 F-119 F-130 F-140 F-149
 84 Characterization in Kaduna Metropolis Valuation of Agricultural Properties: Empirical Evidence from 85 Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability 86 Assessment of Part of Minna, Niger State, Nigeria 87 Flood Inundation Mapping of Gbaganu Area Minna, Niger State Collaboration Among Construction Professionals on Building 88 Information Modelling (Bim) Implementation in Abuja, Nigeria Automatic Extraction of Farmland Boundary Lines from Satellite Imagery 89 Using Fully Convolutional Networks – A Review Prospectivity Mapping for Gold (Au) Mineralization Using LandSAT 90 8 OLI Data in Rafi Local Government Area of Niger State, Nigeria Assessment of Geothermal Potential within the Basement Region of 91 Kogi State, Using Aeromagnetic Data Application of Electrical Resistivity Method to Delineate Construction Sites at Gidan Kwano Campus, FUT, Minna, Niger 92 State, Nigeria An Empirical Approach for Determination of Building Stability using 93 CORS Data Computational Fluid Dynamics (CFD) Investigation of Pressure Drop 94 across Highly Porous Metallic Structure 	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G. Aransiola, A. B. & Odumosu, J. O. Fidelis I. Kwaghhua, & Adetona, A. A O. R. Ebute, U. D. Alhassan & A. A. Rafiu Adeniyi, G, Gbedu, A. M. & Opaluwa, Y. D	F-86 F-97 F-109 F-119 F-130 F-140 F-149 F-157
 Valuation of Agricultural Properties: Empirical Evidence from Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability Assessment of Part of Minna, Niger State, Nigeria Flood Inundation Mapping of Gbaganu Area Minna, Niger State Collaboration Among Construction Professionals on Building Information Modelling (Bim) Implementation in Abuja, Nigeria Automatic Extraction of Farmland Boundary Lines from Satellite Imagery Using Fully Convolutional Networks – A Review Prospectivity Mapping for Gold (Au) Mineralization Using LandSAT 8 OLI Data in Rafi Local Government Area of Niger State, Nigeria Assessment of Geothermal Potential within the Basement Region of Kogi State, Using Aeromagnetic Data Application of Electrical Resistivity Method to Delineate Construction Sites at Gidan Kwano Campus, FUT, Minna, Niger State, Nigeria An Empirical Approach for Determination of Building Stability using CORS Data Computational Fluid Dynamics (CFD) Investigation of Pressure Drops across Highly Porous Metallic Structure Effects of Density of Ground Control Points on the Accuracy of Maps Produced Using UAV: A Review 	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G. Aransiola, A. B. & Odumosu, J. O. Fidelis I. Kwaghhua, & Adetona, A. A O. R. Ebute, U. D. Alhassan & A. A. Rafiu Adeniyi, G, Gbedu, A. M. & Opaluwa, Y. D Muhammad, M.S. & Otaru, A.J. Muhammad, Bala. & Ahmed, Musa	F-86 F-97 F-109 F-119 F-130 F-140 F-149 F-157 F-169 F-178
 Valuation of Agricultural Properties: Empirical Evidence from Oxfarms Minna, Nigeria Application of Location Based Service for flood Vulnerability Assessment of Part of Minna, Niger State, Nigeria Flood Inundation Mapping of Gbaganu Area Minna, Niger State Collaboration Among Construction Professionals on Building Information Modelling (Bim) Implementation in Abuja, Nigeria Automatic Extraction of Farmland Boundary Lines from Satellite Imagery Using Fully Convolutional Networks – A Review Prospectivity Mapping for Gold (Au) Mineralization Using LandSAT 8 OLI Data in Rafi Local Government Area of Niger State, Nigeria Assessment of Geothermal Potential within the Basement Region of Kogi State, Using Aeromagnetic Data Application of Electrical Resistivity Method to Delineate Construction Sites at Gidan Kwano Campus, FUT, Minna, Niger State, Nigeria An Empirical Approach for Determination of Building Stability using CORS Data Computational Fluid Dynamics (CFD) Investigation of Pressure Drop across Highly Porous Metallic Structure Effects of Density of Ground Control Points on the Accuracy of 	Olatunji, A., Adama, U., Adoga, O., Ojetunde, I., & Shittu, A. Adesina, E.A, Adewuyi A. I. & Berthran C. B Adesina, E.A., Saka T. T., Adewuyi A. I., Ayoade S.A & Ayandeji, M.A Ibrahim N. & Anifowose, M. O. Isa, A.M. & Ajayi, O.G. Aransiola, A. B. & Odumosu, J. O. Fidelis I. Kwaghhua, & Adetona, A. A O. R. Ebute, U. D. Alhassan & A. A. Rafiu Adeniyi, G, Gbedu, A. M. & Opaluwa, Y. D Muhammad, M.S. & Otaru, A.J. Muhammad, Bala. & Ahmed, Musa	F-86 F-97 F-109 F-119 F-130 F-140 F-149 F-157 F-169 F-178

Africa's Population Growth: Adopting the Smart City Model in 98 Nigeria as a Blueprint For it's Future Cities Terrain Analysis for Effective Spatial Coverage of FM 92.3Mhz 99 signal in Minna Metropolis	Ezeugwu, N.C. & Isah, A.D. Gbedu A.M., Adeniyi, G., & James, I.S	G-12 G-27
Liveability of Public Housing in Nigeria: A Study of Residents' 100 Satisfaction in Some Selected Public Housing Estates in Niger State	Paul B. Haruna & Zubairu, S. N.	G-36
The Effect of Urban Land-Use Planning Regulations on Residential 101 Property Investment Returns: Evidence from Literature Assessment of Climate of Public Office Buildings	Salihu, N., Nuhu M. B., Sanni M. L., Sule I., & Emmanuel S. G.	G-46
Designs in Selected Tertiary Institutions in Niger State Towards 102 Energy Efficient Buildings in Nigeria. Analysis of Urban Densification and Housing Market in Bida, Niger	Adebisi, G.O. & Alonge, D.O	G-55
103 State, Nigeria	Mohammed, J.K. & Sulyman, A.O. Adama, U.J., Morenikeji, G.,	G-63
Exploring Community-Based Facilities Management Principle 104 Towards a Sustainable Urban Land Management in Minna Spatio-Temporal Analysis of Urban Sprawl and tts Impact on Economic Trees in Gidan Mangoro-Minna, Niger State, Nigeria.	Kemiki, O.A., Popoola, N.I., & Ajayi, M.T.A.	G-73
105 Hauwa Ahmed Ndagi.	Hauwa Ahmed Ndagi.	G-80



Influence of Urban Recreational Facilities Quality on Domestic Urban Tourists Patronage of Parks in Abuja City, Nigeria

Mohammed, B.B.^{1a}, Akanbi, M.^{1b}, & Mohammed, M.^{1c}

¹Department of Urban and Regional Planning, Federal University of Technology Minna, Nigeria ^abanki@futminna.edu.ng; ^bakanbimemuna@gmail.com; ^cmohammedmaikudi@futminna.edu.ng Corresponding author: <u>banki@futminna.edu.ng</u>

Abstract:

Quality of facilities in urban parks are essential to tourism development in cities. Ironically, the state of facilities in urban parks are often not accorded adequate academic attention in some developing countries including Nigeria. Thus, this paper examines the effect of parks facilities quality on patronage of urban tourists in Abuja. Four parks namely: Millennium Park, Magic Land, Jabi Lake Park, and Tobix Garden were chosen for this study. 500 questionnaires were administered to domestic tourists who were conveniently selected in the parks and 320 questionnaires were filled and returned. Firstly, frequency of visit was determined, then the quality of facilities was measured, and followed by the effect of facilities quality on tourists' patronage using descriptive analysis and chi-square analysis in SPSS version 20. The finding of this study revealed that majority of tourists visit the parks once in a week. While majority of the tourists rated the facilities in the parks to be of high quality, in good condition, only the toilets were rated negatively low. Furthermore, the findings of the study indicate that only walkways and access roads significantly and positively influence patronage of parks, while poorly maintained toilets significantly and negatively influence patronage of parks in Abuja city. The paper recommends that all facilities in parks in Abuja city should be properly and regularly maintained to enhance increased patronage.

Keywords: Tourism development, Urban Park, Facilities, Patronage, Abuja.

BACKGROUND OF THIS RESEARCH

In today's dynamic and rapidly changing digital world of all-round social changes primarily led by the scientific and technical progress, everyone needs time for recreation, which can be understood as the activity a person takes part in for pleasure or relaxation rather than as work (Elegbeleye, 2005). The desire to seek rest in form of leisure is often sought by both international and domestic tourists all over the world, and this is one among many reasons' tourists visit recreational parks. This desire can be well fulfilled if a destination provide quality facilities and are made attractive. The attractiveness of a tourism destination is often referred to the opinions of visitors about the destination's perceived ability to satisfy their needs. Research has shown that attractiveness studies of a recreational and tourists' destination are necessary for understanding the elements that encourage people to travel (Formica, 2002).

The tourism sector offers numerous and diverse opportunities. According to Tahiri and Kovaci, (2017), an individual's selection of the type of holiday depends on their level of education, and income, their environment, interest in culture, living standard and perceived image of the destination in terms of quality of facilities. The assessment of quality of facilities in a tourists and recreation area should be able to look into the examination of aspects such as: aesthetics, cleanliness, safety, general conditions of the site (Cavnar, Kirtland, Evans, Wilson, Williams, Mixon, and Henderson, 2004; Saelens, Frank, Auffrey, Whitaker, Burdette, and Colabianchi,

2006) and social environment within a recreational facility, all of which were found to influence facility use (Ries, Gittelsohn, Voorhees, Roche, Clifton, and Astone, 2008).

Quality is well known as the fundamental determinant that contributes to the success and failure of the service sector (Tabaku and Cerri, 2016; Yusof and Rahman, 2011). Ekinci, Prokopaki, and Cobanoglu (2003) and Akbaba (2006) noted that measurement of quality has been a complex task and has received considerable attention from researchers over the past three decades, thereby causing serious debate in the extant literature about the most acceptable way to conceptualize it. An appealing quality of service often referred to as intangible characteristics provided to tourists tends to develop satisfaction among tourists, enhances the re-visitation rate and generates more income for the destinations (Baksi, 2014; Kwok, Jusoh, and Khalifah, 2016). As important as the tangible aspect of tourism and recreational sites facilities quality measurement is, the concentration of research has been on intangibles characteristics. Thus, in an attempt to bridge this gap, this paper examines the effect of facilities quality on urban tourists' patronage of parks in Abuja city.

RESEARCH METHODOLOGY

A quantitative research paradigm was considered for this study and therefore, a survey research design through the use of questionnaires was used to collect data in four selected urban parks in Abuja city in Nigeria. These parks are Millennium Park, Magic Land, Jabi Lake Park, and Tobix Garden. 500 questionnaires were administered to domestic urban tourists who were in Abuja from other cities in Nigeria for leisure and holidays. These tourists were conveniently selected in the parks and the questionnaires were administered over a period of two months. Because some of the questionnaires were given to the tourists to fill, only 320 administered questionnaires were retrieved, thereby yielding a return rate of 64%. Analysis of questionnaire commenced with data screening for outliers, thereafter, the data was subjected to descriptive analysis (frequency distribution), and chi-square analysis in SPSS 20, and the results were presented in tables.

RESEARCH FINDINGS AND DISCUSSION

In this section, the first analysis result presented is number of visitation to parks by urban tourists weekly. As reported in table 1, it is evident that majority of tourists (64.7%) visit parks in Abuja city once in a week and very few tourists (3.1%) visit the parks three times in a week. The table also show that 31.3% of urban tourists visit the selected parks twice in a week and no tourist's takeout time to visit the parks four and five times a week. The relatively low frequency of patronage is not surprising for tourists as they often have planned numerous activities in any urban centre, and would want to visit all places of choice during a leisure trip, and because of time constraint, a repeat visit to any park is often difficult during their stay.

Table 1. Number of Visitation to Parks per Week

Tuble 1. Number	oj visitation to 1 ark.	s per meek
Number of Visitation	Frequency	Percent (%)
Once	207	64.7
Twice	100	31.3
Three Times	10	3.1
Four Times	0	0
Five Times	0	0
Total	320	100

Source: Authors Field Work, 2017

The second analysis result is presented in table 2. According to the table, majority (82.8%) of urban tourists who visited the selected parks are satisfied and impressed with the condition of the playground as a significant number rated them to be in good condition. This connotes that

SETIC 2020 International Conference:

[&]quot;Sustainable Housing and Land Management"

the existing playgrounds are well maintained and spacious enough to accommodate visiting tourists conveniently. The condition of sport facilities in the parks from the view point of visiting urban tourists indicates high level of commendation as they are rated positively high by majority (83.1%) of them, implying that they are well maintained.

In terms of the condition of the available toilet facilities in the parks, 54.7% of tourists rated them positively and 46.3% rated them negatively low. While it will not be out of place to note that a significant number of sampled tourists appreciate the condition of the toilet facilities, results show that there are many tourists who are displeased with the condition of the toilets. Scenario of this nature is capable of discouraging tourists from visiting the selected parks in addition to reducing time spent in the parks for relaxation.

Table 2. Quality of Facilities in Selected Parks in Abuja

Playgrounds	Facilities	Frequency	Percentage (%)
(iii) Fair 4 1.3 (iiii) Fair 46 14.4 (iv) Good 119 37.2 (v) Very Good 147 45.6 Sport Facilities (i) Very Poor 12 3.8 (ii) Poor 42 13.1 (iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Good 7 17.8 Toilet Facilities (i) Very Foor 7 2.2 (ii) Poor 70 21.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Foor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Yery Good 142 44.4 Food of A A A A A A A A A A A A A A A A A A			<u> </u>
(iii) Fair 46 14.4 (iv) Good 119 37.2 (v) Very Good 147 45.6 Sport Facilities (i) Very Poor 12 3.8 (ii) Poor 42 13.1 (iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Very Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Poor 6 1.9 (ii) Poor 7 2.2 (ii) Poor 6 1.9 (iii) Poor 6 1.9 (iii) Poor 6 1.9 (iv) Good 117 36.6 (v) Very Good 142 44.4 Picture Facilities ((i) Very Poor		1.6
(iv) Good 119 37.2 (v) Very Good 147 45.6 Sport Facilities *** (i) Very Poor 12 3.8 (ii) Poor 42 13.1 (iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 17 5.3 Pienic/Barbecue Areas ** ** (i) Very Poor 6 1.9 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iii) Fair 48 15.0 (iii) Fair 48 15.0 (iii) Poor 6 1.9 (ii) Yery Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (i	(ii) Poor	4	1.3
(v) Very Good 147 45.6 Sport Facilities (i) Very Poor 12 3.8 (ii) Poor 42 13.1 (iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Pair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Plower Good (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 108 33.8 (v) Very Poor 1 4.1 (iii) Pair 62 19.1 (iv) Good 108 33.8 (v) Very Good	(iii) Fair	46	14.4
Sport Facilities (i) Very Poor	(iv) Good	119	37.2
(i) Very Poor 12 3.8 (ii) Poor 42 13.1 (iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Pienic/Barbecue Areas 17 5.3 (i) Very Poor 6 1.9 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 142 44.4 Flowerbeds 142 44.4 (i) Very Foor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (i) Very Good 108 33.8 (i) Very Poor 2 6 (iii) Pair 62 19.1 (iv) Good	(v) Very Good	147	45.6
(iii) Poor 42 13.1 (iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Pienic/Barbecue Areas 19 2.2 (i) Very Poor 6 1.9 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (ii) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (ii) Poor 5 1.5 (iii) Pair 68 21.2 (iv) Good 108 33.8 (v) Very Good 108	Sport Facilities		
(iii) Fair 91 28.4 (iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Pienic/Barbecue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds 117 36.6 (i) Very Poor 6 1.9 (i) Poor 5 1.5 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 1 4.6 (i) Poor 7 2.2 (iii) Fair 62 19.1	(i) Very Poor		3.8
(iv) Good 118 36.9 (v) Very Good 57 17.8 Toilet Facilities (i) Very Poor 71 22.2 (iii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Poor 6 1.9 (iii) Pair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds 1 1.9 (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 1 2.2 (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1<	(ii) Poor		13.1
(v) Very Good 57 17.8 Tollet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Peinic/Barbecue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Pair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 1 (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Pair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 1 3 (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Poor 4 1.3 (iii)	(iii) Fair		28.4
Toilet Facilities (i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Pienic/Barbecue Areas (i) Very Poor 6 1.9 (iii) Pair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds 1.9 44.4 (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 1 2 (ii) Poor 7 2.2 (iii) Pair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 10 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 <	(iv) Good	118	36.9
(i) Very Poor 71 22.2 (ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Poor 6 1.9 (iii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 1 2.2 (i) Poor 7 2.2 (ii) Poor 7 2.2 (iii) Pair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 1 3 (iii) Poor 4 1.3	(v) Very Good	57	17.8
(ii) Poor 70 21.2 (iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Foor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 4 1.3 (ii) Poor 4 1.3 (iii) Fair 53 1.6.6 (iii) Good 96 <t< td=""><td>Toilet Facilities</td><td></td><td></td></t<>	Toilet Facilities		
(iii) Fair 82 25.6 (iv) Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbecue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (ii) Poor 5 1.5 (ii) Piar 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53	(i) Very Poor		22.2
(iv) Good 80 25.6 (v) Very Good 17 5.3 Picnic/Barbeue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 2 6 (i) Poor 7 2.2 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 1 3 (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30 <td>(ii) Poor</td> <td></td> <td></td>	(ii) Poor		
(v) Very Good 17 5.3 Picnic/Barbecue Areas 3 (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds 3 44.4 (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 6 19.1 (i) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 4 1.3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(iii) Fair		25.6
Picnic/Barbecue Areas (i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(iv) Good		
(i) Very Poor 7 2.2 (ii) Poor 6 1.9 (iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 1 2.2 (ii) Poor 7 2.2 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 1 3 (i) Poor 4 1.3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(v) Very Good	17	5.3
(ii) Poor (iii) Fair 48 15.0 (iv) Good (v) Very Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 108 33.8 (v) Very Good 108 33.8 (v) Very Poor 108 33.8 (v) Very Poor 108 33.8 (v) Very Good 109 33.8 (v) Very Good 108 33.8 (v) Oery Poor 108 33.8 (v) Oery Poor 11 36 (ii) Poor 11 37 (iii) Fair 15 38 (iii) Foor 48 11.3 (iii) Fair 15 38 16 (iv) Good 16 30	Picnic/Barbecue Areas		
(iii) Fair 48 15.0 (iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(i) Very Poor		
(iv) Good 117 36.6 (v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 3 (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(ii) Poor		1.9
(v) Very Good 142 44.4 Flowerbeds (i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(iii) Fair	48	15.0
Flowerbeds (i) Very Poor (i) Poor (ii) Poor (ii) Fair (iii) Fair (iv) Good (iv) Good (iv) Very Good (iv) Very Good (iv) Very Good (iv) Very Poor (iv) Very Poor (iv) Very Poor (iv) Poor (iv) Good (iv) Fair (iv) Good (iv) Good (iv) Good (iv) Good (iv) Good (iv) Fair (iv) Good (iv) Very Good (iv) Good ((iv) Good		36.6
(i) Very Poor 6 1.9 (ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30		142	44.4
(ii) Poor 5 1.5 (iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (i) Poor 4 1.3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
(iii) Fair 68 21.2 (iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(i) Very Poor		1.9
(iv) Good 108 33.8 (v) Very Good 133 41.6 Walkways (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(ii) Poor		1.5
(v) Very Good 133 41.6 Walkways 6 (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads 7 3 (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	(iii) Fair		
Walkways 6 (i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
(i) Very Poor 2 6 (ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30		133	41.6
(ii) Poor 7 2.2 (iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30	Walkways		
(iii) Fair 62 19.1 (iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
(iv) Good 108 33.8 (v) Very Good 141 44.1 Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
(v) Very Good 141 44.1 Access Roads 3 (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
Access Roads (i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
(i) Very Poor 1 3 (ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30		141	44.1
(ii) Poor 4 1.3 (iii) Fair 53 16.6 (iv) Good 96 30			
(iii) Fair 53 16.6 (iv) Good 96 30	` '		
(iv) Good 96 30			
	` '		
(v) Very Good 166 51.9			
	(v) Very Good	166	51.9

Source: Authors Field Work, 2017

SETIC 2020 International Conference:

School of Environmental Technology, Federal University of Technology, Minna $3^{rd} - 5^{th}$, May 2021.

[&]quot;Sustainable Housing and Land Management"

Taking the picnic and barbecue areas of the parks into consideration, majority (81%) of the sampled tourists were delighted with their experience when they were in close contact with this attraction, which contributed to the positive high rating of the attraction. Additionally, the flower bed areas of the park were also rated positively high as over 70% of tourists appraised them commendably. This implies that the management of the selected parks are constantly engaging their gardeners to maintain the flower beds regularly, which is pertinent in keeping any park alluring.

As for the walkways that is also refer to as pathways, 77% of tourists opined that they are well laid out, clean and in good condition; making them appear convenient for easy walk around the parks to all places of attraction. Furthermore, an appraisal of the state of access roads to the parks shows that they are not in deplorable as majority (81.9%) of tourists are satisfied with their condition.

Effect of Facilities Quality on Visitors Patronage

Table 3 present the result of the relationship between facilities quality and frequency of tourists' patronage of urban parks in Abuja city. From the results, it is evident that only three out of the seven facilities examined significantly influence tourist's patronage. These facilities are toilets, flower bed, and access roads. This result emphasized the significance of good access roads and transportation service and agree with the position of Reigner, Kiser, Lawson, and Manning (2012), which established that providing vital and high-quality transportation services to visitors in parks is an important component of managing parks and recreation areas. Chisquare results show that the condition of playground, sport areas, picnic/barbecue areas and walkways does not significantly influence patronage of parks in Abuja city, but the condition of toilets, flower beds, and access roads do. While the results show highly negative significant effect (17.116, -0.002**) of condition of toilets on tourists' patronage of the parks, the condition of flower beds and access roads significantly and positively (9.562, 0.05* and 9.313, 0.05*) influence tourists patronage of the parks.

Table 3. Chi-Square Analysis of the Relationship between Quality of Facilities and Tourists Patronage of Urban Parks in Abuja City

Facilities in Parks	Frequency of Visit	Sig. Level	Decision
	(Chi-Square Test)		
Playgrounds	1.995	0.737	Not significant
Sport Areas	3.732	0.443	Not significant
Toilets	17.116	-0.002**	Highly significant
Picnic/Barbecue Areas	1.909	0.752	Not significant
Flower Beds	9.562	0.05*	Fairly significant
Walkways	8.529	0.74	Not significant
Access Roads	9.313	0.05*	Fairly significant

Note: P < 0.05*, P < 0.01**, P < 0.001***

Source: Authors Field Work, 2017

CONCLUSION AND RECOMMENDATIONS

The study set out to investigate the effect of condition of facilities in urban park on tourists' patronage since the quality of facilities is an essential and critical aspect of tourism development in any destination. This is because the condition of facilities somehow have a direct and indirect relationship with tourists' experience. From the foregoing findings and discussion, it is evident that the available facilities examined are well put to use and are currently enjoying some level of patronage. Facilities such as the sporting equipment's, playground areas, picnics and barbecue areas, and walkways are in good condition and appreciated by tourists, while the toilets facilities are not well maintained, which is worrisome

[&]quot;Sustainable Housing and Land Management"

as it has potential of making the experience of tourists unfulfilling and can also affect repeat visit intention. Thus, the study recommends that all facilities particularly the toilets in the parks in Abuja city should be properly and regularly maintained to enhance increased patronage.

REFERENCES

- Akbaba, A. (2006). Measuring service quality in the hotel industry: A study in a business hotel in Turkey. International Journal of Hospitality Management. 25, pp. 170–192.
- Baksi, A. K. (2014). Moderating impact of tourism relationship management dimensions on tourism service quality, tourist satisfaction and destination loyalty. Decision Science Letters. 3, pp. 169–186.
- Cavnar, M. M., Kirtland, A. K., Evans, H. M., Wilson, K. D., Williams, E. J., Mixon, M. G., and Henderson, A. K. (2004). Evaluating the quality of recreation facilities: development of an assessment tool. Journal of Park and Recreation Administration. 22(1), pp. 96 114.
- Ekinci, Y., Prokopaki, P., and Cobanoglu, C. (2003). Service quality in Cretan accommodations: Marketing strategies for the UK holiday market. International Journal of Hospitality Management. 22(1), pp. 47–66.
- Elegbeleye, S. O. (2005). Recreational facilities in schools: A panacea for youths' restiveness. Journal of Human Ecology, 18(2), pp. 93-98, DOI: 10.1080/09709274.2005.11905814
- Formica, S. (2002). Measuring destination attractiveness: A proposed framework. Journal of American Academy of Business. 1(2), pp. 350–355
- Reigner, N., Kiser, B., Lawson, S., and Manning, R. (2012). Using transportation to manage recreation carrying capacity. The George Wright Forum. 29(3), pp. 322–337.
- Ries, A. V., Gittelsohn, J., Voorhees, C. C., Roche, K. M., Clifton, K. J., and Astone, N. M. (2008). The environment and urban adolescents' use of recreational facilities for physical activity: A qualitative study. American Journal of Health Promotion. 23(1), pp. 43–50.
- Saelens, B. E., Frank, L. D., Auffrey, C., Whitaker, R. C., Burdette, H. L., & Colabianchi, N. (2006). Measuring physical environments of parks and playgrounds: EAPRS instrument development and inter-rater reliability. Journal of Physical Activity and Health. 3(1), pp. 190–207.
- Tabaku, E., and Cerri, S. (2016). An assessment of service quality and customer satisfaction in the hotel sector. Tourism & Hospitality Industry 2016, Congress Proceedings, 480–489.
- Tahiri, A., and Kovaci, I. (2017). Assessment of the quality of products in tourism. European Journal of Multidisciplinary Studies. 2(5), pp. 62 72.
- Yusof, N. A., and Rahman, F. A. (2011). Tourists' perceptions of service quality in a lake-based tourism area. IPEDR, 16, pp. 84–89.