

ACADEMIC STAFF CURRICULUM VITAE

1.1 Personal Profile

1.1.1 Personal Details

Name: Dr. Felix Lamech Mogambi Ming'ate

PF. No.: 7275

Department: Environmental Studies and Community Development

Designation: Senior Lecturer

Email: mingate.felix@ku.ac.ke

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Area of Specialization: Environmental Planning and Management

Research Interests:

- Environmental governance and community livelihoods
- Management of ecosystem services
- Participatory forest management
- Modern green energy
- Climate change

Google Scholar:

https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=felix+mingate&oq=

ORCID ID: 0000-0002-7160-9089

1.1.2 Academic & Professional Qualifications

1.1.2.1 Academic qualification

- 2013: Doctor of Philosophy in Environmental Planning and Management, Lincoln University, New Zealand
- 2002: Master of Environmental Planning and Management, Kenyatta University
- 1999: Bachelor of Arts Degree (Geography and Sociology), Second Class Honours Upper Division University of Nairobi

1.1.2.2 Professional qualification

- 2025: Certificate of attendance: Erasmus+ staff Mobility for Teaching, Vytautas Magnus University MCMXXII, Co-funded by the European Union.
- 2021: Nairobi Summer School on Climate Justice Training, held at Kenyatta University from August 30th to September 11th 2021
- 2021: The virtual training held on 15th March 2021 in the Division of Research, Innovation and Outreach through the Directorate of Research Support and Dissemination on: One more step into understanding patenting for researchers. meet.google.com/pob-heqc-zua
- 2015: Post-Doctoral Research, Institut für Ethnologie, Universität Köln, Germany.
- 2014: Completed course on Training of Trainers on the use of smartboard in teaching
- 2003: Completed a training on Participatory Planning Monitoring, Evaluation and Learning organized by Lutheran World Relief
- 2001: Long Distance Learning Certificate on Private Public Partnership on Urban Environment, Yale University, USA

1.1.3 Employment History

1.1.3.1 Local

- 30th August 2019-present Senior Lecturer, Kenyatta University, Department of Environmental Studies and Community Development.
- 20th June 2013-September 2018: Lecturer, Kenyatta University Department of Environmental Studies and Community Development.
- 9th September 2009 - June 20th 2013: Tutorial Fellow/Coordinator, School of Environmental Studies, Kenyatta University, Department of Environmental Studies and Community Development (Mombasa Campus).
- September 20th 2004-September 2009: Part time Lecturer Kenyatta University Department of Environmental Planning, Management and Community Development.
- 4th February 2008- 9th September 2009: Part time Lecturer, The Catholic University of Eastern Africa Department of Geography, Teaching: GS 104: Environmental Studies.
- 29th October 2007-9th September 2009: Part-time lecturer, Jomo Kenyatta University of Agriculture and Technology Departments of Human Resource Development and Landscape Architecture.
- 12th to 16th November 2007: Part time lecturer Kenya Wildlife Service Training Institute
- September 20th 2004-9th September 2009: Part time lecturer Africa Nazarene University Department of University Common Courses.
- June 2003- July 2004: Project Co-ordinator/Manager BCHOS (Bosongo Community Health Outreach Services)

1.1.3.2 International

March 2010-September 2010: Tutor, Lincoln University, Department of Environmental Management

1.1.4 Achievements

- Graduated 21 Masters and 4 PhDs
- Published 30 Journal articles 4 Book Chapters, 2 University level books, 1 paper in conference proceedings

1.2 Publications

1.2.1 Referred Journals

- Manono, B. O., & Ming'ate, F. L. M. (2026). Recent Advances and Prospects in Methane Production from Anaerobic Digestion: Process Intensification, Additives, and Biogas Upgrading. *Methane*, 5(2), 13.
- Omar, S. A., Ming'ate, F. L., & Ochola, S. O. (2025). Hydro-Climatic Variability and Its Implications on Soil and Water Security in Kenya's Tana Delta. *Asian Journal of Geographical Research*, 8(4), 166-178.
- Omar, S. A., Ming'ate, F. L., & Ochola, S. O. (2025). Climate-Induced Water Resource Variability and Livelihood Adaptation in Kenya's Tana Delta. *Asian Journal of Environment & Ecology*, 24(11), 1-15.

- Kabochi F.N, **Ming'ate M.L.F.** & Ochola O.S, (2025). Analysis of Climate Change and Variability on Irish Potato Production among Small-Scale Farmers Using GIS in Narok County, Kenya, *East African Journal of Agriculture and Biotechnology*, Volume 8, Issue 2, 2025 p-ISSN: 2707-4293 | e-ISSN: 2707-4307, DOI: <https://doi.org/10.37284/2707-4307>
- Kabochi F.N, **Ming'ate M.L.F.** & Ochola O.S, (2025). Irish Potato Production and Consumption Amid Climate Change and Variability Among Small Scale Farmers in Narok South Sub- County-Kenya, *International Journal of Natural Resource Ecology and Management* 2025, Vol. 10, No. 3, pp. 155-169, <https://doi.org/10.11648/j.ijnrem.20251003.11>
- Ithara, M. A. M., & **Ming'ate, F. L. M.** (2024). Perceptions of Flood Risks among Users of Hells Gate National Park, Nakuru County, Kenya for Enhanced Disaster Preparedness and Management, *International Journal of Research and Innovation in Applied Science (IJRIAS) Volume IX issue IX pages 620-631*
- Ithara, M. A. M., & **Ming'ate, F. L. M.** (2024). Preparedness and Response to Flooding Risks by Kenya Wildlife Service in Hells Gate National Park, Nakuru County, Kenya. *East African Journal of Interdisciplinary Studies*, 7(1), 368-383.
- Nyiratuza, M., Maniriho, A., Mireri, C., & **Ming'ate, F. L.** (2024). Spatiotemporal Dynamics of Land Use and Land Cover Change Around Volcanoes National Park and their implications for Biodiversity Conservation. *Biodiversity*, 1-19. <https://doi.org/10.1080/14888386.2024.2385972>
- Musyoki, J. , **Ming'ate, L.** , Muriithi, J. , Musingo, M. and Kagombe, J. (2024). Factors Impacting Benefits of Participatory Forest Management in Upper Imenti Forest, Meru County, Kenya. *Open Journal of Forestry*, 14, 183-196. doi: [10.4236/ojf.2024.143012](https://doi.org/10.4236/ojf.2024.143012).
- Nyiratuza, M., Maniriho, A., **Ming'ate, F. L.**, & Mireri, C. (2024). Impact of Volcanoes National Park Conservation on Local Food Security. *Cogent Social Sciences*, 10(1), 2319690. DOI: [10.1080/23311886.2024.2319690](https://doi.org/10.1080/23311886.2024.2319690)
- Kamau K.J., Gikonyo, W.S. & **Ming'ate, F. L. M** (2023). Use of Plantation Establishment and Livelihood Improvement Scheme (Pelis) in the Rehabilitation of Nyamweru Forest Reserve, Kiambu County, Kenya. *International Journal of Research and Innovation in Social Science (IJRISS)*, 7(12), 926-937.
- Hirpa, G. Y., Letema, S. C., & **Ming'ate, F. L. M** (2023). Effect of Forest Landscape Restoration on Ecosystem Services in Ethiopia: Review for Future Insight. *Indonesian Journal of Social and Environmental Issues (IJSEI)*, 4(3), 327-338.
- Kimiri , K. L., **Ming'ate , F. L. M.**, & Kioko , E. M. (2023). Community Forest Associations Boundaries and Sustainable Forest Management in Loita Forest, Narok County, Kenya. *Asian Journal of Geographical Research*, 6(4), 17–31. <https://doi.org/10.9734/ajgr/2023/v6i4200>
- Makiti, A. S, & **Ming'ate, F.** (2023). Environmental Health and Safety Practices in Petrol Stations in Nairobi County, Kenya. *East African Journal of Environment and Natural Resources*, 6(1), 311-324. <https://doi.org/10.37284/eajenr.6.1.1426>.
- **Ming'ate F.L.M**, Ikonya, S.N. (2023). The Social Cultural Factors Influencing the Level of Adoption of Biogas as an Alternative Energy Source in Gakawa Location, Nyeri County, Kenya. *Journal of Modern Green Energy*, 2023; 2: 4. DOI: [10.53964/jmge.2023004](https://doi.org/10.53964/jmge.2023004).
- Musyoki, J.K., **Ming'ate, F.L.M.** and Muriithi, J.K. (2022). Factors Determining Household Membership to Community Forest Association for Participation in Management of Upper Imenti Forest, Meru County, Kenya. *Open Access Library Journal*, 9: e9209. <https://doi.org/10.4236/oalib.1109209>

- **Ming'ate, M.L.F**, Mbuvi, M.T.E. Nahama E.T (2022), Establishing Forest Resources and Resource Users' Boundaries: Policy Briefs Based on Kenyan Case Studies, *International Journal of Environmental Protection and Policy*. Volume 10, Issue 5, September , pp. 118-121. doi: 10.11648/j.ijepp.20221005.11
- Maithya, J. K., **Ming'ate M.L.F** & Letema, C. S. (2022). Wetland Utilization and its Implications on Provisioning Ecosystem Services of Nyando Wetland, Lake Victoria Basin, Kenya. *Journal of Environmental Assessment Policy and Management*, Volume No. 24, Issue No. 01, Article No. 2250023, <https://www.worldscientific.com/doi/10.1142/S1464333222500235>
- Lonzi Z. **Ming'ate, M.L.F** Kurauka K.J. (2022). Effectiveness of Government Policies in Governing Arabuko-Sokoke Forest Reserve in Kenya. *SSRG International Journal of Agriculture & Environmental Science*, 9 (2): 29-33.
- **Ming'ate, M.L.F** & Lonzi Z. (2022). The Role of Forest Resource and Resource Users' Boundaries in Improving the Livelihoods of Communities Adjacent to Arabuko-Sokoke Forest Reserve, Kenya. *International Journal of Natural Resource Ecology and Management* 7(1): 54-58.
- **Ming'ate, M.L.F** & Lonzi Z. (2022). Formation of Participatory Forest Management Boundaries for Governance of Arabuko-Sokoke Forest Reserve, in Kenya. *Asian Journal of Environment & Ecology*. 17(1):1 -9
- Kimitei, I.K. & **Ming'ate, M.L.F**. (2022). Examination of the Socio-Economic Factors Influencing Sustainable Food Production in Arid and Semi-Arid Lands of Elgeyo Marakwet County, Kenya. *Asian Journal of Geographical Research*. 5(1): 1-9.
- Hadiza, I.N., **Ming'ate , M.L.F.**, & Ochola, S.O., (2021). Flood Risk Management and its Compliance in Loko Community Adamawa State, Nigeria. *International Journal of Multidisciplinary Research and Analysis*. Vol. 4, page No. 1777-1788.
- Maithya, J. K., **Ming'ate M.L.F** & Letema, C. S. (2021). Local Communities' Awareness on Payments for Ecosystem Services for Improved Livelihood and Conservation of Nyando Wetland, Kenya, *Tanzania. Journal of Science* 47(3): 969-980
- Maithya, J. K., **Ming'ate M.L.F** & Letema, C. S. (2020). A Review on Ecosystem Services and their Threats in the Conservation of Nyando Wetland, Kisumu County, Kenya, *Tanzania Journal of Science* 46(3): 711-722.
- **Ming'ate, F. L. M.**, Letema, S., & Obiero, K. (2019). Designing Institutional Arrangements for Collaborative Governance of Forests in Kenya Using a Delphi Process. *Journal of Scientific Research and Reports*, 25(4), 1-11. <https://doi.org/10.9734/jsrr/2019/v25i430191>.
- Omar, S. A. **Ming'ate, M.L.F** and Okeyo B. (2018). Drivers, Institutional Arrangements and the Impact of Resource-based Conflicts on Communities' Livelihood in the Tana Delta, Kenya. *International Journal of Science and Research (IJSR)* - Volume 7 Issue 10, pp 1610-1619.
- **Ming'ate M. L. F** and Karigu M., (2018). Use of community cultural practices and beliefs in the conservation of Lake Baringo ecosystem in Kenya. *International Journal of Natural Resource Ecology and Management*. Vol. 3, No. 3, 2018, pp. 32-38. doi: 10.11648/j.ijnrem.20180303.11.
- **Ming'ate, M.L.F.**, (2018). An evaluation of the Implementation of the Arabuko-Sokoke Forest Reserve Co-management Approach in Kenya. *East African Agricultural and forestry Journal*, online DOI: 10.1080/00128325.2018.1436842.
- **Ming'ate, M.L.F.**, (2016). A framework for linking forestry co-management institutional arrangements with their associated livelihood outcomes. *Progress in Development Studies*, 16, (4) pp. 1-19.

- **Ming'ate, M.L.F.**, Letema, S. and Obiero, K. (2016). Designing a functioning community forest association: a case of Muileshi, Kakamega County, Kenya. *Asian Journal of Applied Sciences* (04)05, 1209-1215.
- **Ming'ate, M.L.F.** and Bollig, M., (2016). Local rules and their enforcement in the Arabuko-Sokoke forest reserve co-management arrangement in Kenya. *Journal of East African Natural History* 105(1):1-19. 2016 doi: 10.2982/028.105.0102.
- Mwangangi M. S., **Ming'ate M. L. F.** and Osuga M. I. (2016). An examination of various wastes emanating from poultry rearing in Kibera informal settlement, Nairobi, Kenya. *International Journal of Biological Sciences and Applications*. Vol. 3, No. 1, Page: 7-10
- **Ming'ate, M. L. F.**, and Mohamed, Y.M. (2016). Impact of Stone Quarrying on the Environment and the Livelihood of Communities in Mandera County, Kenya. *Journal of Scientific Research & Reports* 10(5): 1-9.
- **Ming'ate, M.L.F.**, Rennie, H. G., and Memon, A., (2014). Potential for Co-management Approaches to Strengthen Livelihoods of Forest Dependent Communities: A Kenyan Case. *Land Use Policy* (41), 304–312.
- **Ming'ate, M.L.F.**, Rennie, H. G., and Memon, A. (2014). NGOs come and go but business continues: Lessons from co-management institutional arrangements for governance of the Arabuko-Sokoke forest in Kenya. *International Journal of Sustainable Development & World Ecology* (21)6,526-531 <http://dx.doi.org/10.1080/13504509.2014.968237>.
- **Ming'ate, M.L.F.**, (2014). Combining ethnography and case study research designs in studying forestry co-management approaches. *Journal of Human and Social Science Research*. Vol. 3, No. 2, 67-79.

1.2.2 University Level Scholarly Books

- **Ming'ate, F. L. M.**., E. Mbuvi, M. T. , & Tetea, N. E. (2021). Guidelines for Establishment of Partnerships, Forest Resources and Resource User's Boundaries in Kenya, Book Publisher International, ISBN 978-93-5547-015-7 (Print), ISBN 978-93-5547-016-4 (eBook) <https://doi.org/10.9734/bpi/mono/978-93-5547-015-7>
- Gowreesunkar, V.G.B., Maingi, S.W., and **Ming'ate, M.F.L.**, (2023) (1st ed) (ed). Management of Tourism Ecosystem Services in a Post Pandemic Context: Global Perspectives, Routledge, 3rd Park Square UK

1.2.3 Book Chapters

- **Ming'ate, M.L.F.**, (2015). The Global South: What does it mean to Kenya? In Andrea Hollington, Oliver Tappe, Tijo Salverda and Tobias Schwarz: Voices from around the world: Concepts of the Global South. The Global South, Study Centre, Cologne, Germany. <http://gssc.uni-koeln.de/node/460>.
- Gowreesunkar, V. G., Maingi, S. W., & **Ming'ate, F. L. M.** (2022) Introduction: Status of the Tourism Ecosystem Services: Marking More Realities. In *Management of Tourism Ecosystem Services in a Post Pandemic Context* (pp. 3-8). Routledge, 3rd Park Square UK.
- Maingi, S. W., **Ming'ate, F. L. M.**, & Gowreesunkar, V. G. (2022) Sustainable Cultural Ecosystem Services and Community-based Tourism (CBT) Models Post COVID-19 Pandemic within Aberdares Conservation Area and National Park, Kenya. in *Management of Tourism Ecosystem Services in a Post Pandemic Context: Global Perspectives* Pgs. 382-395. Routledge, 3rd Park Square UK.
- Gowreesunkar, V. G., Maingi, S. W., & **Ming'ate, F. L. M** (2022) Reflections and Conclusion:

Management of Tourism Ecosystem Services Post Pandemic–Looking Ahead. In *Management of Tourism Ecosystem Services in a Post Pandemic Context* (pp. 399-402). Routledge, 3rd Park Square UK.

1.2.4 Editorship of a Book or Conference Proceedings

- Gowreesunkar, V.G.B., Maingi, S.W., and **Ming’ate, M.F.L.**, (2023). (1st ed) (ed). Management of Tourism Ecosystem Services in a Post Pandemic Context: Global Perspectives, Routledge, 3rd Park Square UK
- **Felix L. M. Ming’ate** , Mbuvi Musingo Tito Edward, Nahama Eric Taeta, James Makini, Zipporah Lonzi, Kiramba Lestan Kimiri, , Ezra Wak, Lucy Nzilani Nduba and Mwelu Musau (2023). Establishment of Optimal Community Forest Access and Management Units for Enhanced Community Livelihoods and Better Forest Management: Case Studies, Proceedings of the 5th Annual international conference held on 14-16th June, Machakos University, Kenya, Machakos University Press.

1.2.5 Scholarly Presentations at Conferences/Workshops/Seminars

- Presented a paper at Machakos University 5th Annual conference on Leveraging Research, innovation and Technology for socio-economic development held on 14th-16th June 2023 Titled: *Establishing Optimal community forest access and management units for enhanced community livelihoods and better forest Management: Case Studies*
- Poster Presentation at the 2nd Multi-Sectoral Conference on science and Technology and innovation (MS-COSTI 2) 23rd-26th May 2023 at Safari Park Hotel Titled: *Establishing Optimal community forest access and management units for enhanced community livelihoods and better forest Management*
- Presented a paper at the National Research Conference on Sustainable Use of Land and Natural Resources to Enhance Food Security in Kenya forest management held at Safari Park Hotel, 24-25 November 2021 Titled: *Establishing Optimal community forest access and management units for enhanced community livelihoods and better forest Management*
- Presented a paper at the International Congress of Emerging Trends in Tourism Held online at Necmettin Erbakan University, 30th September 2021 – 02nd October 2021 Titled: *Community Resilience Models for Conservation of Cultural Ecosystems Services and Tourism Management Post Covid-19 Pandemic in Park-Adjacent Communities within National Park, Kenya.*
- Presented a paper at the Biennial Research and innovation conference held at Kenyatta University, 22nd-25th December 2019, Titled: *Preparation for Partnerships in the Establishment of Forest Resources and Resource user’s Boundaries in Kenya*

1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

1.3.1 Student Evaluations

- Constantly evaluated by students and results compiled by the centre for excellence and research training

1.3.2 Trainings in Higher Education

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- 2021: Nairobi Summer School on Climate Justice Training, held at Kenyatta University from August 30th to September 11th 2021
- 2021: The virtual training held on 15th March 2021 in the Division of Research, Innovation and Outreach through the Directorate of Research Support and Dissemination on: One more

step into understanding patenting for researchers. meet.google.com/pob-heqc-zua

- 2015 Post-Doctoral Research, Institut für Ethnologie, Universität Köln, Germany.
- 2014 Completed a course on Training of Trainers on the use of smartboard in teaching
- 2003: Completed a training on Participatory Planning Monitoring, Evaluation and Learning organized by Lutheran World Relief
- 2001: Long Distance Learning Certificate on Private Public Partnership on Urban Environment, Yale University, USA

1.3.3 Ongoing Supervisions

1.3.3.1 Masters

- GLADYS MWELU MUSAU REG NO. N50/CTY/PT/26918/2019: Governance of resource users boundaries for sustainable conservation of Nyamweru forest, Kiambu County, Kenya.
- LUCY NZILANI NDUBA REG NO. N50/CTY/PT/27362/19: Establishment of forest resource use boundaries for sustainable forest management and community improved livelihoods in Kereita Forest Reserve, Kiambu County , Kenya.
- EVANS ENGOLEIT OTIBINE REG NO. N50/CTY/PT/39333/2017: Efficacy of community Forest Association Boundaries for access of forest resources in Kakamega forest reserve, Kakamega County, Kenya
- MARY ANNE MUTHONI ITHARA N50/28114/2018: Preparedness and Response to flood risks in Hell's Gate National Park, Nakuru County, Kenya.
- SIMON MWANTHI MWANGANGI N50/20284/2010: Poultry, Waste disposal mechanisms and their effects on the environment in Kibera informal settlement, Nairobi.
- ESTHER W. NG'ANG'A N50/CTY/24902/2011: Eco-villages as a Model of Environmental Sustainability in Gatanga Division, Murang'a County, Kenya.
- MARIITA ANNUARITE NYABOKE N50/22822/2012: The Socio-economic Impacts of the Development of KENGEN Power Project on Pastoralist Community in Ol kurai Naivasha Sub-County, Kenya.
- ARIKA DAVID MOKOBO N50/CE/2646/2011: Agricultural Credit Utilization and its Impact on Socio-Economic Status of Tea Growers in Nyamaiya Division, Nyamira County, Kenya.
- GITHUI MILKA WANGU N50/CE/25186/2013: Forest Conservation through Diversification of Livelihood in Kieni East Sub County, Nyeri.
- REUBEN LOSIKE N50/CE/21050/2012: Sustainable Development Approaches; an evaluation of the applications of Science, Technology and Innovation in development initiatives in the Katilu Division of the Turkana South Sub-County.
- DANIEL KUNGU BIU N50/CTY/PT/25967/2013: The Impact of Saccos on Poverty Reduction and Environmental awareness Among Flower Farm Workers in Naivasha Sub County, Kenya.
- ROSE K. OTUNDO N50/CTY/PT/27619/2013: Effects of Devolution on Solid Waste Management in Nairobi County.
- DIANA KOMBO N50/CTY/PT/29126/2013: The Impacts of Socioeconomic and Cultural Practices of Communities Neighboring Nairobi National Park and Nairobi City Park on Resource Use and Biodiversity Conservation.

- CHRISTER OBOCH N50/29055/2014: Impacts of Plantation Establishment and Livelihood Improvement Scheme on Forest Cover in Geta Block in Abadares Forest.
- MAYAKA M. FRED N50/CTY/PT/29027/2014: Assessment of the Impacts of Pastoral Land Use Conversion on the Urban Outskirts. A Case Study of Nairobi-Kitengela Interface.
- VICKY BETTY CHEPKORIR N50/CTY/PT/26167/2013: Sustainable Use of Polythene Bags for Reduced Environmental Pollution and Job Creation: A Case of Kericho County.
- MARION MOTHO GICHUKI. N50/CTY/PT/33806/2015: Harnessing Street People as a Special Stakeholder in Solid Waste Management in Nairobi City County, Kenya.
- MUGO LILIAN -REG. NO. N50/37222/2017: Impacts of Climate Change On Cultural Heritage Tourism Sites in Coastal Kenya.
- PETER. O. MAKORI N50/CE/24515/010: Environmental Impact of Energy Sources Use in Tea Factories in Nyamira County, Kenya

1.3.3.2 PhD

- SAID A. OMAR N85/26248/19. Impact of climate change on water supply and livelihood of communities in Tana Delta, Kenya.
- JAMES AYUSA MAKINI N85/29602/2014: Establishment of Forest Resource Use Boundaries for Enhanced Community Livelihoods and Forest Management at Kakamega and Upper Imenti Forests, Kenya.
- PARVIN NGALA N85/25931/2013: WASH service delivery in the age of climate change: Climate variability and ensuring access to safe water and sanitation in Kenya.
- FRANCIS NJOROGE KABOCHI N85/26508/2013: Strategies to Improve Social-economic Activities among Households through Climate Variability in Narok County, Kenya.
- RICHARD ROTICH - N85/23607/2012: Complexities of Accountability of Civil Society Organizations among their Intended Beneficiaries in Nairobi County.
- BARAKA GRACE-REG. NO. N85F/27538/2018: Quantifying ecosystem services in the Itombure Natural Reserve in the Democratic Republic of Congo.
- KALINDE RIZIKI KABWE N85F/26510/2018: Assessment of Long-Term Sustainability of Forest Carbon Projects in the Democratic Republic of Congo.

1.3.4 Completed Supervision of Postgraduate Students

1.3.4.1 Masters

- BIWOTT ABRAHAM KOSGEY N50/10249/06: An assessment of the implementation of participatory forest management at Ngong Road Forest Station, Kenya.
- MOHAMED YUSSUF MOHAMED N50/CE/26899/2011: The impacts of stone quarrying on the livelihood of communities in Mandera County, Kenya.
- BIAR KUAI BIAR (N50/CE/23843/2013: Community participation and management of rural water supply in pastoralist communities in Kapoeta East County, South Sudan
- SAMUEL WAKANG'U KIARIE N50CTY/PT/23008/2012: Challenges facing small scale farmers' adaptation to climate change in Kijabe, Kiambu County Kenya.
- JACKLINE NYAKERARIO N50/CE/11403/2008: The Malaria Burden on Household Agricultural Production in Mosoch Division, Kisii County.
- MILICENT MWORIA N50/CE/23124/2010: Declining Wood Fuel and their Effects on Household Nutrition and Environmental Conservation in Tigania Sub-County, Kenya.
- MARY KARIGI N50/CTY/PT/22487/2012: The Effects of Cultural Practices and

Perspectives on Sustainable Community Based Ecosystem Management in Lake Baringo, Kenya.

- LUCY RUGURU KAREITHI N50/CE/24416/2012: The Socio-Economic and Environmental Impact of Kindaruma Hydro-Electric Reservoir on the Community of Kiambere Sub-location of Mbeere South Sub-County in Embu County, Kenya.
- MARIBA JOHN MAROA N50/CE/24408/2012: Socio-economic Factors Hindering Adoption of Alternative to Tobacco Farming in Kehancha Division, Kuria West Sub-County, Kenya.
- SAID ABDULAH OMAR N50/PU/2174/13: Assessment of the Impact of Resource Use Conflicts on Community Livelihoods Within the Tana Delta Sub-County, Kenya, Pwani University.
- IKONYA S. N. N50/CE/22651/2010: Adoption of Biogas Technology as an Alternative Energy Source in Gakawa Location, Nyeri County, Kenya.
- EDWARD K. MEZA N50/CE/14202/2009: The impacts of Sand Mining on the Environment and Land use along Voi River, Taita-Taveta County, Kenya.
- DORIS NKIROTE N50/CTY/PT/28199/2013: Effectiveness of Rainwater Harvesting as a Strategy for Flood Mitigation in Ruai Area, Nairobi County, Kenya.
- ANDAGANA IYAMI HADIZI -REG. NO. N50F/25135/2018: *FLOOD DISASTER* Risk Management on Socio-Economic Development in Loko Community of Songlga Adamawa state, Nigeria
- BENJAMIN KYALO. N50/CTY/PT/33094/2015: Ecosystem Restoration and Livelihoods Development in ASALs. A case Study of Kamweini Area, Machakos County
- KIPCHIRCHIR ISAAC KIMITEI N50/CE/24410/2012: Social Economic factors influencing sustainable food production in Arid and Semi-Arid lands of Elgeyo Marakwet County, Kenya.
- LISPER GAKII NKONGE N50/CTY/PT/32441/2015: Adaptive Capacity of Pastoralists to Climate Variability in Ngare Mara, Isiolo County.
- MARYAM DUBOW DAHIR REG. NO. N50/CE/23162/2012: Impact of resource based conflict on livelihoods among the Gare and Dagodia Clans of Mandera North, Mandera County.
- ANDREW SILA MAKITI N50/39233/2016: Environmental Compliance at petrol stations in Nairobi County, Kenya.
- LONZI ZIPPORAH REG NO. N50/CTY/PT/37649/2016: Establishment Of Boundaries For Sustainable Conservation and Enhanced Livelihoods of Forest Dependent Communities in Arabuko Sokoke Forest Reserve, Kilifi County, Kenya.
- KIRAMBA LESTAN KIMIRI N50/38581/2016: Establishment Of Traditional Boundaries for sustainable forest management in Loita Forest, Narok County, Kenya.

1.3.4.2 PhD

- JOSEPH KASUA MAITHYA N85/22977/2012: Wetland Utilization and Community Perception on Payment for Environmental Services for Conservation of Nyando Basin Wetlands.
- JOSEPHINE K. MUSYOKI N85/28296/2013: Participatory forest management and sharing of Benefits in Upper Imenti forest, Meru County, Kenya.
- MADELINE NYIRITUZA-N85EA/27138/13: Implications of Biodiversity on Food

Security Around Volcanoes National Park, Rwanda.

- DAVID WANDO - N85/28752/2014: Environmental Governance and Security in Resilience Building in Eastern Mau Forest Communities, Nakuru County, Kenya.

1.4 PROFESSIONAL/CONSULTANCY

1.4.1 Networks/Collaborations

- January, 2020-Present: Gowreesunkar, V. G. of Anna University and Maingi, S. Department of Tourism in writing a book titled: Management of Tourism Ecosystem Services in a Post Pandemic Context: Global Perspectives, Routledge, 3rd Park Square UK.
- Collaborated with over 50 scholars in editing our book Management of Tourism Ecosystem Services in a Post Pandemic Context: Global Perspectives, Routledge, 3rd Park Square UK.
- January 2018-Present: The Kenya National Research Fund collaboration with Kenya Forest Service and Kenya Forest Research Institute.
- September-December 2014: Local rules and their enforcement in the Arabuko-Sokoke Forest Reserve co-management arrangement in Kenya, at Global South Centre, Institut für Ethnologie, Universität Köln, Germany.
- September-December 2014: A framework for linking forestry co-management institutional arrangements with their associated livelihood outcomes, at Global South Centre, Institut für Ethnologie, Universität Köln, Germany.
- Potential for Co-management Approaches to Strengthen Livelihoods of Forest Dependent Communities: A Kenyan Case.
- NGOs come and go but business continues: Lessons from co-management institutional arrangements for governance of the Arabuko-Sokoke forest in Kenya

1.4.2 Editorial Boards/Referee for professional periodicals

- Editorial board member of the international Journal of Environmental management and Renewable Energy system
- Editor Taylor & Francis, Routledge
- Editor Journal of Environmental Engineering and Studies (e-ISSN: 2582-3132) 2.
- Editor Journal of Civil and Construction Engineering (e-ISSN: 2457-001X)

1.4.3 Consulting for international/national boards

- Feb 2021 Appointed the Chairman School Board of Postgraduate Studies School of environment
- April 2021 Appointed member of board, DAAD Scholarship interviewing panel of candidates 2020-PhD in Environmental planning and management.
- February 2020 Appointed member of board, DAAD Scholarship interviewing panel of candidates 2020-PhD in Environmental planning and management.
- June 2015-Present: ISO Committee member at the Department of Environmental Studies and Community Development
- Appointed the Chairman Departmental Board of Postgraduate Studies
- Appointed Executive Member of School of Environment Board
- Appointed Board Member for the proposed Programme in Environmental Journalism and

Advocacy

- Appointed board member of examiner for NGUGI HILDA N50/CTY/21536/10
- Appointed board member of examiner for SLYVESTER AURA NYONGESA N50/CTY/PT/20277/10
- Appointed board member of examiner for JOHN MUTURI N50/CE/11396/2008
- Appointed board member of examiner for NYAKERARIO NYANDIKO JAMES N50/CE/23083/2010
- Appointed board member of examiner for SLYVESTER AURA NYONGESA N50/CTY/PT/20277/10
- Appointed board member of examiner for USMAN NAPOLEON DANIEL N85F/24682/2011

1.4.5 Consulting for organizations/institutions

- May, 2025: Appointment as an External Evaluator In The Technical Stage of a Tender - The Endline Survey for Income Generation Project: Strengthening the Operation System of Coffee Cooperatives in Embu County, Kenya (KGN/SED/KOICA/Embu/2025/004)- Good Neighbour Kenya.
- September, 2024: Appointed as an expert technical stage evaluator in the call for consultancy to implement a training of trainers program on good Agricultural practices for Embu County Coffee Union Famers-Good Neighbors Kenya.
- August (2020): Appointed resource person community Development (Technical Expert)- Kenya Forest Research Institute
- 28 October-December 2015: Appointed as an external subject expert to validate the Ph.D in Environmental Planning and Management and Ph.D in Land Resource Management for Maasai Mara University

1.4.6 Membership to academic/professional bodies

- 2020: Member British Institute of East Africa
- 2019: Contact Person for Kenyatta University Biennial Research and Innovation Conference
- Member climate change organizing committee
- 2017: Member Environmental Institute of Kenya
- 25th May 2009-Present: Registered Member as Environmental Impact Assessment and Audit Expert; by National Environment Management Authority (NEMA) NO.1910

1.4.7 Any other

1.4.71 Editorship

- Gowreesunkar, V.G.B., Maingi, S.W., and **Ming'ate, M.F.L.**, (2023) (1st ed) (ed). Management of Tourism Ecosystem Services in a Post Pandemic Context: Global Perspectives, Routledge, 3rd Park Square UK

1.4. 7.2 Peer review

- 2024: Appointed reviewer International Journal of Research and Innovation in Social Science (IJRISS)
- 2021: Appointed as Peer reviewed Journal of Modern Green Energy
- March 2021: Manuscript reference. No. TEAF-2018-0015, Assessing the Impact of Climate

Change and Variability on Wetland Maize Production and Food Security in Highlands and Central Plateaus of Rwanda

- February 2021: The manuscript reference is TEAF-2020-0063. Factors influencing participation in Integrated Catchment Management programmes in Lesotho: The case of Lekhobanyane Catchment.
- November 2020: Manuscript Number: TEAF-2020-0032. The Gender Aspects of Agroforestry Practices in Maytemeko Watershed, Northwestern Ethiopia
- October 2020: Manuscript Number: TEAF-2020-0056 how Africa and African Students Benefit From Networking In Forest Education And Research Case Study From The Northern African Student Meeting-International Forestry Student Association 2017
- August 2020: Manuscript Number TEAF-2019-0055 Evaluating Willingness to Pay for Watershed Protection in Ndaka-ini Dam, Murang'a County, Kenya
- June 2020: Manuscript Number TEAF-2019-0030, Effect of maize producer attitudes and asset endowment on choice of market outlets: The case of smallholder producers in western and eastern Kenya
- December 2020 Reviewer, Manuscript Number: HELIYON-D-20-08342, A Transforming Traditional Community Based Forest Management: The Case of Loita community forest, Kenya
- August 2018: Reviewer East African Agricultural and Forestry Journal MS. No. TEAF-2016-0014, Air pollution removal by urban trees and shrubs in Akure, Ondo State South West Nigeria
- 2018 March: Reviewer Journal: Forest Policy and Economics Manuscript Number FORPOL_2017_433. Forest resources conservation in the protected areas through co-management: Analyzing multi-temporal satellite imagery and stakeholders' perceptions.
- 2017 September: Reviewer Journal of Ecology and The Natural Environment (JENE) manuscript number JENE/22.07.17/0658. Governance of River Basin: Gender Dimension in Framing Issues at the Community Level
- 2016 July: Reviewer Environment, Development and Sustainability Journal, Manuscript Number: ENVI-D-16-00236. Effect of stone quarrying activities on the landscape façade in South-eastern Nigeria.
- 2015 December: Reviewer, Management of Environmental Quality: An international Journal. Manuscript ID MEQ-08-2015-0163.R2. Development of full-cycle understands cropping system (PLDT) for sustainable livelihoods of forest village.
- 2015 July: Reviewer, National Geographic Society grant proposal. Enhancing Conservation of Magombera forest through practicing Modern Beekeeping by Adjacent Local Communities
- 2015 January: Reviewer, International Forestry Review. Institutional arrangements for Co-management of Forest Reserve in Mtakataka EPA, Dedza, Malawi: Potential for Sustainable Forest Management.
- 2014-Present: Reviewer, environment and natural resources journal. Benefits to forest adjacent communities under the old (1968) and revised (2005) Kenyan forest laws.
- 2014 November: Reviewer, Journal of Ecology and the Natural Environment. Manuscript number JENE-07.12.14-0493 (3) Carbon Stock in Adaba-Dodola Community Forest of Danaba District, West-Arsi Zone of Oromia Region, Ethiopia: An Implication Climate Change Mitigation.
- 2014 November: Reviewer, Journal of Ecosystem & Ecography Manuscript ENVIRONSCI-

15-806. Impacts of participatory forest management on livelihoods of forest adjacent communities in REDD+ potential areas of Mufindi and Mbozi Districts

- 2014 October: Reviewer, Journal of Sustainable Forestry. Review manuscript ID MS 758. Factors influencing level of participation of community forest association members in forest management: a case study of Kenya.

1.4.7.3 External examiner

- June 2025: Appointed as external examiner for a master's thesis for Eunice Wanjiku Ngige. Machakos University Entitled: Assessment of perception of the Fisherfolk Community on the Hot spot of Ghost Gears and their Potential on Marine Ecosystems in south Coast Kenya"
- September 2024: Appointed external Examiner for a master's thesis Agnes Kasyoka Wambua MG22/PU/16181/18 at Pwani University titled: The Effect of Environmental Management plan on sustainable land management of quarries in Tezo and Matzangoni wards, Kilifi, Kenya.
- June 2024: Appointed External Examiner for 2 years at Pwani University in the Department of Environmental Studies and Community Development
- November 2021: Edward Lekaichu ole Kateiya TPO1/MP/MNO197/2017 PhD. Thesis (Land Resource Management), Dynamics of Land use Changes on the livelihoods of Local communities in Baringo County, Maasai Mara University.
- August 2021: Emmanuel Ochola Matsaba BPS/AG315-0022/2016 Msc. Thesis (Landscape Planning and Conservation), Modelling of Urban Heat Island and Quantification of Environmental Amelioration Effects of Plant Species as an Adaptation Strategy. A Case Study of Nairobi City, Kenya, Jomo Kenyatta University of Agriculture and Technology.
- October 2015: Appointed Supervisor for Said Abdulahi Omar Reg. No N50/PU/2174/13. Assessment of the Impact of Resource Use Conflicts on Community Livelihoods Within the Tana Delta Sub County, Tana River County, Kenya, Pwani University.

1.4.7.3 Internal Examiner

- August 2024 internal examiner for master's project, determinants of integrated pest management adoption among large-scale farmers in Uasin Gishu, County, Kenya
- August 2024 internal examiner for master's project, Sustainability of different residential density neighborhoods in Nairobi County, Kenya
- June 2024 internal examiner for master's thesis, sand harvesting and its social economic effects on households' livelihoods in Homabay county, Kenya.
- July 2022 Internal examiner for M.A thesis, Assessment of soil erosion hazards in Kamabiti Sub-catchment, Murang'a County Kenya.
- March 2021 Internal examiner for M.ENV project, Flood occurrence and its implication in Narok, Narok County, Kenya.
- March 2021 Internal examiner Master's thesis, Gender differentials and sustainable wildlife ecosystem: A case of selected conservancies in Maasai Mara, Narok County, Kenya
- November 2020 Internal examiner Ph.D thesis, Participation of men and women in the management of domestic solid waste in Kiandutu informal settlement, Kiambu County, Kenya
- PATRICK MWANZIA MWENDA. N85/20723/12: Ph.D in Environmental Planning and Management, Role of forest products extraction on community livelihood and its effect on Kakamega Forest plant biodiversity, Department of Environmental Planning and Management, Kenyatta University.

- ESTHER NAIREIAI KIMITI. N50/CTY/PT/27709/2013, Master in Environmental Planning and Management (2017). Changing Land Use Patterns in The Amboseli Ecosystem and its implications on pastoralists' Livelihood System in Kajiado County, Kenya, Kenyatta University
- SHADRACK MWENDA MUTHINI. N50/CTY/PT/30834/14, Master in Environmental Planning and Management, Small scale wood carving enterprises and their contribution to rural livelihood in Wamunyu, Machakos county, Kenya, Kenyatta University
- CHANDOGO A. MWONGELI. N50/CTY/PT/31373/15. Master in Environmental Planning and Management, Revitalization of coconut sub-sector to enhance sustainable rural livelihoods in Rabai, Kilifi county, Kenya, Kenyatta university
- TILJI TABITHA CHEPCHUMBA. C50/20115/12: MSc. Geography (2017), Effects of soapstone quarrying on geomorphic and socio-economic activities in Tabaka Region, Kisii county, Kenyatta university
- NGUGI HILDAH N50/CTY/21536/10 Msc. Thesis, Factors influencing adoption of biogas technology among households in Kieni West Division, Nyeri County of Kenya, Kenyatta University
- SYLVESTER AURA NYONGESA N50/CTY/PT/20277/10 Thesis, Effects on integrated soil fertility management technologies on crop yield and income for smallholder farmers in Mbale Division, Kenya, Kenyatta university
- Internal examiner for KOBIA R. KAGENDO Msc. N50/CE/22652/2010. MSc. Project, Environmental effects of Miraa (Catha Edulis) cultivation on Community livelihoods in Meru County, Kenya
- ALICE WANGUI KIHUNGI N50/CE/11937/2007 Msc. Project, Factor constraining adoption of intergrated approaches of sustainable Environmental management in Kikuyu Su-county, Kiambu, Kenyatta University
- JULIANA NZEKI N50/CE/22664/2011 Msc. project, Impact of climate variability and the adaptation strategies on water accessibility for crop production in Mutituni division Machakos County, Kenya, Kenyatta University
- AHAMED MOHAMED YUSUF N50/CE/14192/2009 Msc. project, Charcoal Trade Implications on Communtiy Livelihoods In Garowe District, Somalia, Kenyatta university
- JACINTA NDUKU MUTULA N50/CE/22657/2010 Msc. project, Indigenous adaptation techniques and adaptive capacity of agro-pastoralists to climate variability in Mwala Machakos County, Kenya
- ABDDIRAHIM NUSSEIN ABDOW N50/CE/22649/2010 Msc. Project, Impact of lime/whitewash mining on the environment in Wajir East, Wajir county, Kenya

1.5 Administrative and Responsibilities

1.5.1 Recognized university administrative positions

- October 2024: Appointed by the DVC (Administration and Finance) as the chairman for a committee to develop a waste management plan for the university.
- 13th January 2024-Present appointed as Chairperson, Department of Environmental Studies and Community Development
- January 2021 appointed by registrar as coordinator for departmental research committee
- April 2021 School of Environmental Studies Chair Board of Post Graduate
- January 2021 appointed Chairperson of the department for research and innovation output

- April 2015-April 2021 Departmental Chair Board of Postgraduate Studies
- 29th June to 18th August 2017: Acting Chair Department of Environmental Studies and Community Development
- June 2015-Present: ISO Committee member at the Department of Environmental Studies and Community Development
- June 2015-Present: ISO Postgraduate advisor (Masters and PhD) at the Department of Environmental Studies and Community Development.
- 22nd may to 26th May 2017: Acting Chair Department of Environmental Studies and Community Development
- June 2014-Present: Departmental/Chair Coordinator Board of Postgraduate, Department of Environmental Studies and Community Development
- June 2013-Present: Chair/Coordinator Curriculum Review Department of Environmental Studies and Community development
- June 2013-Present: Chair/ISO Coordinator Departmental of Environmental Studies and Community Development
- 9th September 2009 to March 17th 2010: Coordinator, School of Environmental Studies (Mombasa Campus)

1.5.2 Other responsibilities in the University

- Chaired/coordinated the revision of Bachelors of Environmental Studies (Community Development), Master of Environmental Studies (Community Development), Ph.D in Environmental Studies (Community Development).
- In the departmental/dean committee for the development of Certificate Course, Degree and Ph.D in Environmental Journalism and Advocacy.
- Coordinated the development of Kenyatta University Ruanda Campus Programmes at the Department

1.6 Community Engagements and Other Contributions

1.6.1 Research funding

- 2024: Kenya Good Neighbors Kshs. 289,050-Site Conference held at KUCC on 10th May 2024
- 2020: British Institute of East Africa 1000GBP
- 2017: Kenya National Research Fund Kshs. 2, 498, 972 <http://www.researchfund.go.ke/>
- 2015: Kenyatta University Vice Chancellor Grants Kshs. 1, 500,000
- 2015:TWAS-DFG Research grants 7,050 Eur for post-doctoral research at the University of Cologne
- 2011: Lincoln University Research grants Dollars 7,500
- 2010: Lincoln University International Accommodation Scholarship Dollars 2000

1.6.2 Community outreach

- Vice-Secretary Minto Welfare group
- PTA Member St. Mary's Girls High School-Igoji

1.6.3 Professional Affiliation & portfolios

- 25th May 2009-Present: Registered Environmental Impact Assessment and Audit Expert; by

1.6.4 Any other sub-category

1.6.4.1 Conferences/Seminars/Workshops

- Attended the 2nd International research and innovation multidisciplinary conference held on 10th to 12th September 2024 at Kisii university.
- Attended the National Research Conference on Sustainable Use of Land and Natural Resources to Enhance Food Security in Kenya held at Safari Park Hotel, Nairobi on 24-25 November 2021
- One Health Conference project held 7th Sept 2021. Online: <https://www.eventbrite.co.uk/x/one-health-conference-working-together-for-a-healthy-environment-tickets-168580445651>, Confirmation number 1835468249
- Attended Biennial Research and innovation conference held at Kenyatta University, 22nd-25th December 2019
- Attended Water Security and Climate Change Conference held at Nairobi, 3rd-5th December 2018
- Attended a workshop on transition towards a sustainable sanitation sector and the prospects of innovation in Nairobi 6th July 2018
- Attended a workshop on systems Theory and higher Education Didactics 24th-28th April 2017, held at Kenyatta University Conference centre.
- Attended the 1st Kenya Coast Development Project Conference on March 21st-23rd 2016. Voi Wildlife lodge
- Attended a seminar on Baohan Street: An African Community in Guangzhou, Photo exhibitions by Li Dong (artist) and Michaela Pelican (curator) at the Global South Centre, University of Cologne Institut für Ethnologie, Universität Köln, Germany, on 16th October 2014.
- Attended a seminar on setting ethnic boundaries: Cultures and Societies in Transition, from Durham University by Thomas Wildlok, at Global South Centre Institut für Ethnologie, Universität Köln, Germany, on 23 October 2014.
- Attended a seminar on Fragmentation Urbanism: Abstraction Everyday life and informality, by Colin Mcfarlane, Durham University at Global South Centre, Institut für Ethnologie, Universität Köln, Germany, on 29 October 2014.
- Attended a seminar on Conserving greens in Indian cities: Opportunities and challenges by Shamita Kumar, Bvicer, from Pune university at Global South Centre Institut für Ethnologie, Universität Köln, Germany, 19 November 2014.
- Attended an international conference on Australian and New Zealand Association of Planning Schools Conference, YMCA Conference Centre, Christchurch, New Zealand at YMCA, Christ church, New Zealand on 17th -19th April 2010.
- Attended a National Conference on the Environment on Conserving and Managing the Environment for Sustainable Livelihoods Organized by Kenyatta University and National Environmental Management Authority held at AVU on 19th-21st may 2008.
- Attended a World Bank Workshop on Strengthening World Bank Group Engagement And Partnerships on Governance and Anticorruption for Accelerated Development and Poverty Reduction Held at Nairobi Safari Club Hotel By World Bank on 7th January 2007.
- Attended a workshop on Bus Rapid Transport System for Nairobi City at Kenya Utalii Hotel

by The Ministry of Roads and Public Works, 28th March 2007.

- Participated and Trained in a Workshop on Participatory Planning Monitoring, Evaluation and Learning by Lutheran World Relief, September 15th –19th 2003 held at Lenana Mount hotel Nairobi, Kenya.

1.6.4.2 Initiating/Leading research project

- January 2018: Principal investigator for National Research Fund (NRF) project, Establishing Optimal Community Forest Access and Management Units for Enhanced Community Livelihoods and Better Forest Management. The following students are beneficiaries of the fund:
 1. Lonzi Zipporah Reg No. N50/CTY/PT/37649/2016-Masters.
 2. Kiramba Lestan Kimiri N50/38581/2016-Masters.
 3. Gladys Mwelu Musau Reg No. N50/CTY/PT/26918/2019-Masters.
 4. Lucy Nzilani Nduba Reg No. N50/CTY/PT/27362/19-Masters.
 5. Evans Engoleit Otibine Reg No. N50/CTY/PT/39333/2017- Masters.
 6. James Ayusa Makini N85/29602/2014-Doctorate
- January 2016: Principal investigator for a research project funded by Vice-Chancellor, Kenyatta University, Designing a New Territory for Institutional Arrangements for Collaborative Governance of forests in Kenya Using a Delphi process.
- September 2020: Co-investigator for project funded by British Institute of East Africa, COVID-19 Pandemic and its Impacts on Cultural Ecosystem Services, Socio-economic well-being and Tourism within Aberdares National Park, Kenya

1.7 Referees

1. Prof. Simon Onywere

Department of Spatial and Environmental Planning

Kenyatta University, P.O Box 43844-00100, Nairobi, Kenya, Tel +254722358814: E-mail: onywere.simon@ku.ac.ke.

2. Dr. Sammy Letema

Department of Spatial and Environmental Planning

Kenyatta University, P.O Box 43844-00100, Nairobi, Kenya Tel +254725672255: E-mail: letema.Sammy@ku.ac.ke

3. Prof. Caleb Mireri

Department of Spatial and Environmental Planning

Kenyatta University, P.O Box 43844-00100, Nairobi, Kenya Tel +254722839691: E-mail: mireri.caleb@ku.ac.ke