



**RESEARCHER ID:**

**SCOPUS ID:**

**ORCHID:**

**POSITION: Chief Scientist: Eco physiologist/Agroforester**

### **1. PERSONAL INFORMATION**

- 1.1. NAME : Dr. Jackson Mutua Mulatya**
- 1.2. ADDRESS: P.O Box. 20412- 00200, Nairobi**
- 1.3. PHONE:- +254 721385835**
- 1.4. EMAIL ADDRESS: [jmulatya@kefri.org](mailto:jmulatya@kefri.org)**
- 1.5. NATIONALITY: Kenyan**
- 1.6. GENDER : Male**

### **2. QUALIFICATIONS**

- 2.1. Academic Qualifications:** PhD; (Agroforestry and Resource Capture); MSc. Natural Resources management/ agroforestry irrigated systems; BSc. Forestry.
- 2.2. Key Competencies:** Plant Eco physiology and Agroforestry; Monitoring, evaluation and Reporting
- 2.3. Other Courses:** Diploma in Environmental waste management; ISO (14001:2015 and QMS 9001:2015); *Certificate in Risk management Course based on ISO 9001: 2015 and ISO 14001: 2015 based on ISO 31000: 2009*

### **3. EMPLOYMENT HISTORY**

**2012- To date: - Deputy Director, Corporate Affairs and Quality Assurance & Chief Research Scientist; My responsibilities include:** Provision of strategic leadership in the planning, implementation, monitoring and evaluation of research and development programmes in the annual Performance contracting and the Strategic Plan of the Institute; Ensure effective and efficient dissemination of research findings for impact through production of publications of targeted

information to clients through annual reports, brochures, guidelines, extension materials, exhibitions through ASK shows across the regions; oversees; Communication, Branding, Public Complaints, Corporate CV, IPR, Corporate Social Responsibility, Environment management system and Quality management systems policies for KEFRI that directs engagements and networking with staff, public, national and international organizations and quality assurance managements systems for quality products and services delivery.

**2005- 2012: - Manager Corporate Affairs and Public Relations and Principal Research Scientist;** Duties included; assisting and mentoring scientists in Projects Proposal development on agroforestry systems and tree Eco physiology in drylands, most of whom were undertaking PhDs and MScs in Agroforestry and Naturals resources management.

**2001- March 2005: Project Manager and Principle Research scientist:-** I was the Manager of Agroforestry Research for Integrated Development in Semi- Areas of Kenya (ARIDSAK) Project which was multi-institutional collaborative project in lower eastern of Kenya. My research was species evaluation for multiple use, technology transfer to farmers and participatory on farm research. I also lead scientist in the Desert Margin Programme (DMP); a GEF /UNEP sponsored project. I chaired the task force carrying out survey on integrated Natural resources management status and opportunities in the southern rangelands of Kenya, Turkana and Marsabit Counties of Kenya.

**1997-2000: Senior Research Scientist and Research Fellow with ICRAF.** I worked with International Centre for Research in Agroforestry (ICRAF) as research scientist at Machakos Research Centre while undertaking my PhD studies. My research work involved management and evaluation of Roots and Competition in intercropping systems.

**1993-1997: Head, Dryland Silviculture Programme and Senior Scientist.** I headed the Research programme at KEFRI headquarters where I coordinated the institute's dryland research projects and programmes activities nationally and regionally.

**1989- 1992: Forestry Manager, KITUI KEFRI/JICA and Research Scientist I;** Worked with Social Forestry project between governments of Kenya and Japan based in Kitui County. My research work included species germplasm production and multiplication, trial establishment and assessment, on farm trials and participatory extension within farmer's fields.

**1986-1988: Officer-in-charge of Bura Fuelwood Research Project; Bura-Tana and Assistant Research Scientist.** I worked with a bilateral project between the Governments of Kenya and Finland at Bura Irrigation Scheme under supervision of Helsinki University. My research duties included experimental research planning, designing and implementing research trials specifically geared towards irrigated forestry for fuelwood, agroforestry practices, woodland conservation and evaluating useful tree species for wood products, food and environmental services and reporting.

#### 4. ADMINISTRATIVE RESPONSIBILITY

##### **Deputy Director, Corporate Affairs and Quality Assurance & Chief Research Scientist;**

Provide strategic leadership in the planning, implementation, monitoring and evaluation of research and development programmes in the annual Performance contracting and the Strategic Plan of the Institute; communication and dissemination of research technologies, quality assurance in Performance contracting deliverables, quality management systems, CSR, Branding, IPR and consultancy.

#### 5. PUBLICATIONS

##### **5.1 Journal papers**

1. Jaoko, V., Ttaning, C. N. T., Backx, S., **Mulatya, J.**, Van den Abeele, Magomere, T., Olubayo, F., Mangelinckx, S., Werbrouk, S. & Smagghe, G. (2020). The phytochemical composition of *Melia volkensii* and its potential for insect pest control. *Plants*, 9(2), 143.
2. James Munga Kimondo, Jacob Godfrey Agea, Clement Akais Okia, Refaat Atalla Ahmed Abohassan, **Jackson Mulatya** and Zewge Teklehaimanot (2014). Distribution and regeneration status of *Vitex payos* (Lour.) Merr. In Kenyan drylands. *Journal of horticulture and forestry* 6(9): 81-91.
3. Wekesa L., Muturi G., **Mulatya J.**, Esilaba A.O., Keya G.A. and Ihure S (2012).  
Economic viability of *Melia volkensii* (Gurkii) production on smallholdings in drylands of Kenya. *International Research Journal of Agricultural Science and Soil Science* (ISSN: 2251-0044) Vol. 2(8) pp. 364-369
4. Kimondo J.M. Agea J.G. Okia C.A., Abohassan R.A.A, Ndeunyema E.T.N, Waiso D.A., Teklehaimanot. Z. and **Mulatya J.M** (2012). Physiochemical and Nutritional characterization of *Vitex Payos* (lour)Merr. (Verbenaceae). An indigenous fruit tree of East Africa. *Journal of Horticulture and Forestry* 4 (10): 161- 168.
5. James Munga Kimondo, Jacob Godfrey Agea, Clement Akais Okia, Refaat Atalla Ahmed Abohassan, **Jackson Mulatya** and Zewge Teklehaimanot (2011). Estimating fruit yield from *Vitex payos* (Lour) Merr. In semi-arid Eastern provinces of Kenya: Application of allometric equations. *Research Journal of Applied Sciences* 6(3): 153-162, 2011
6. Wekesa L., **Mulatya J.** and Esilaba A0. (2011). Bio-socio-economic Factors Influencing Tree Production in South eastern Drylands of Kenya. A Bationo et al. (eds.), *Innovations as Key to the Green Revolution in Africa*, 1035. DOI 10.1007/978-90-481-2543-2 105, ©Springer Science+Business Media B.V.
7. James Munga Kimondo, Jacob Godfrey Agea, Clement Akais Okia, Refaat Atalla Ahmed Abohassan, **Jackson Mulatya** and Zewge Teklehaimanot (2010). *Vitex payoo* (Lour) Merr. Fruit

trees in drylands areas of Eastern Kenya: Use, marketing and management. *Botany Research Journal* 3(1-4): 14-21- 2010.

8. Jama B.A., Mohamed A.M., **Mulatya J.M.** and Njui A.N. (2005). The Big five: harnessing the potential of dryland fruit tree species in East and Central Africa for food security and poverty reduction (*Ecological Indicators* 8(2):170-179; Elsevier Science).

9. C.K. Ong, J. Wilson, J.D. deans, **J. Mulatya**, T, Raussen, N. Wajja-Musukwe (2002). Tree-crop interactions: Manipulation of water use and root function. *Agricultural Water Management* 53; 171-186.

10. **J. M. Mulatya**, C.K.Ong, J. Wilson, J.I. Sprent and J.D. Deans (2001). Crop yields and below ground resource uptake by *Melia volkensii* in semi-arid areas of Kenya. *Agroforestry systems* 51: 39-45, 2001.

11. **J.M. Mulatya**, C.K.Ong, J. Wilson, J.D. Deans and J.I. Sprent (2002). Root architecture of provenances, seedlings and cuttings of *Melia volkensii*: implications for crop yields in dryland agroforestry. *Agroforestry systems* 56: 65-72, 2002.

12. **J. M. Mulatya** (2000). Tree root development and interactions in drylands; focusing on *Melia volkensii* with socio-economic evaluations. Ph.D. thesis, University of Dundee, UK.

13. **Mulatya J.M.** (1989). Agroforestry: It's potential to solve fuelwood crisis in Bura Irrigation and Settlement Scheme, Bura-Tana. MSc. Thesis, University of Edinburgh, UK.

15. Miettinen P., Luukkanen O., Johansson,S., Eklund. E and **Mulatya J.** (1988). Rhizobium nodulation in *Prosopis juliflora* seedlings at different irrigation levels in eastern Kenya. *Plant and Soil*: 112, 233-238.

## 5.2 Books

1. **J.M. Mulatya**, P.L. Shinyada, E.N. Njagi, D.N. Ombego, D. Koech and J. Mbugua (2017). Assessment of the effects of Capacity building on Employee Performance: a case study of Kenya School of Government – Baringo campus.

2. Edward. Mengich, Joshua Cheboiwo, **Jackson Mulatya**, Jesse Owino and Paul Ongugo (2017). Guidelines for integrating trees in the irrigated agricultural landscapes of Kenya. (KEFRI EU funded publication)

3. Muturi, G., **Mulatya J.** and Cheruiyot H. (2004). Benchmark characterization of the Southern rangelands, Marsabit and Turkana/Turkwel Ecosystems: Summary report for Kenya. Edited by Kigomo B. N. DMP KARI/KEFRI/GEF Reports

4. Kamondo B.M, Kimondo **J.M, Mulatya J.M** and Muturi G.M (2006). Recent Mukau (*Melia volkensii* Gurke) Research Development. Proceeding of the first National Mukau workshop

5. **J.M Mulatya** (2005). On farm socio-economic survey of *Melia volkensii* in Kitui and Mbeere districts, Kenya. In Kimondo et al., (eds.). *Melia volkensii* research and development proceedings of a workshop held in Kitui regional Center 16th –19th December 2005.

6. Maina I., Muturi G.M., Mulatya J.M, Ego. E., Nyariki D., Muthoka P., Kariuki J, Eilaba A.O.and Cheruiyot H.K (2004). Desert Margins Programme in Kenya: Integrated socio-economic analysis of benchmark sites Paper in the KARI 9<sup>th</sup> Conference held 1-4<sup>th</sup> November, at KARI Headquarters, Kenya
7. Muturi G., **Mulatya J.** and Cheruiyot H (2004). Benchmark characterization of southern rangelands, Marsabit and Turkana/ Turkwel ecosystems: in Kigomo BN Edits: DMP KARI/KEFRI/GEF Reports
8. A. M. Mohammed, **J. Mulatya** and B. Chikamai (2002). Rehabilitation of degraded lands in sub-saharan Africa: case study of ARIDSAK project, Southern Kenya (African drylands Publication).
9. S.Johansson, V. Kaarakka, O.Luukkanen and **J.M. Mulatya** (1990). Forestry research activities at Bura, Kenya. In Tropical Forestry Reports No.4. University of Helsinki.
10. D Gwaze, **J Clarke**, P Milimo, **J Mulatya** (1998). Estimates of socio-economic benefits of ACIAR-supported forestry projects in Africa. Commonwealth forestry (JSTOR).

### 5.3. Book Chapter

1. **J.M. Mulatya** (2005). A review of *Melia volkensii* tree - crop interactions in Eastern Kenya. In Kimondo et al., (eds.). *Melia volkensii* research and development proceedings of a workshop held in Kitui regional Center 16th –19th December 2005.
2. Wekesa L., **Mulatya J.M.** and Misenya T. (2006). Bio-socio-economic of tree production in the south eastern drylands of Kenya; Proceedings of the 3rd KEFRI scientific Conference 6-9th November 2006, KEFRI Headquarters, Muguga (Muchiri et al, edits) pp281-296
3. Kamondo B.M, Kimondo J.M, **Mulatya J.M** and Muturi G.M (2006). Recent Mukau (*Melia volkensii* Gurke) Research Development. A book of Proceeding of the first National Mukau workshop.
4. **J.M. Mulatya** (2000). *Melia volkensii*: Growth and management in ASALs. In Tree growing in ASALs with special reference to Ukambani: yields, costs and economic benefits. GOK (eds). Pp 1-14.
5. **J.M. Mulatya** and T. Misenya (2005). *Melia volkensii* growth in the Southern drylands of Kenya. In Kimondo et al., (eds.). *Melia volkensii* research and development proceedings of a workshop held in Kitui regional Center 16th –19th December 2005
6. Wekesa L., **Mulatya J.** and Esilaba A O. (2007). Bio-socio-economic factors influencing tree production in south eastern drylands of Kenya. A paper presented at an International Symposium on Innovations as Key to the Green Revolution in Africa: Exploring the Scientific Facts. Organized by the African Network for Soil Biology and Fertility (AfNet) of the Tropical and Soil Biology (TSBF) Institute of CIAT in collaboration with the Soil Fertility Consortium for Southern Africa. A book chapter in A Bationo et al. (eds.), Innovations as Key to the Green Revolution in Africa, 1035 DOI 10.1007/978-90-481-2543-2\_105, CO Springer Science+Business Media B. V. 2011

7. **J. M. Mulatya (2000)**. *Melia volkensii*: Its growth and effects on crops. In the proceeding of the social forestry extension seminar for the promotion of tree planting in semi-arid areas of Kenya. pp 55-66.
8. **J.M. Mulatya (2005)**. A review of *Melia volkensii* tree - crop interactions in Eastern Kenya. In Kimondo et al., (eds.). *Melia volkensii* research and development proceedings of a workshop held in Kitui regional Center 16th –19th December 2005
9. Wekesa L.C, **Mulatya J.M** and Esilaba A.O (**2008**). Bio-socio-economic factors influencing tree production in the south-eastern drylands of Kenya. Springer, (A book Chapter).
10. **J.M. Mulatya**, P.L. Shinyada, E.N. Njagi, D.N. Ombego, D. Koech and J. Mbugua (**2017**). Assessment of the effects of Capacity building on Employee Performance: a case study of Kenya School of Government – Baringo campus.
11. Edward. Mengich, Joshua Cheboiwo, **Jackson Mulatya**, Jesse Owino and Paul Ongugo (**2017**). Guidelines for integrating trees in the irrigated agricultural landscapes of Kenya. (KEFRI EU funded publication)
12. **J.M Mulatya (2005)**. On farm socio-economic survey of *Melia volkensii* in Kitui and Mbeere districts, Kenya. In Kimondo et al., (eds.). *Melia volkensii* research and development proceedings of a workshop held in Kitui regional Center 16th –19th December 2005.
13. Maina I., Muturi G.M., **Mulatya J.M**, Ego. E., Nyariki D., Muthoka P., Kariuki J, Eilaba A.O.and Cheruiyot H.K (2004). Desert Margins Programme in Kenya: Integrated socio-economic analysis of benchmark sites Paper in the KARI 9<sup>th</sup> Conference held 1-4<sup>th</sup> November, at KARI Headquarters, Kenya

#### **5.4. Technical Notes /Protocols/Guidelines**

1. Cheboiwo, J, Muthike G, Wekesa L, and **Mulatya J.M (2010)**. Commercial timber resources on farm in Kenya, A consultancy report for ITTO and ICRAF
2. Machua J.M, **Mulatya J.M**, and. Kariuki J (**2009**). The Feasibility of Establishing Commercial Plantations for Timber, Woodfuel, Biofuel, and Carbon Sequestration at Musimba Farm Kulalu Ranch, Malindi
3. **Mulatya J.M**, Kariuki J, Kiptot E and Machua J.M (2008). A feasibility study for establishing community biofuel plantations in Mutomo district; A KEFRI consultancy report for Lafarge company, East Africa.
4. Kimondo J.M, Teklehaimanot Z. and **Mulatya J.M (2008)**. A model for predicting fruit production of *Vitex payos* (Lour) Merr of verbenaceae family in the three districts of eastern province, Kenya.
5. **Mulatya J.M**, Machua J.M, Kamondo B.M and Mbuthia G (**2006**). Kenya Forestry Research Institute: ISO14001 Certification procedure: Environmental appraisal of KEFRI facilities and services

6. A. M. Mohammed, **J. Mulatya** and B. Chikamai (2002). Rehabilitation of degraded lands in sub-saharan Africa: case study of ARIDSAK project, Southern Kenya. Report for African drylands.
7. **J. M. Mulatya** and A. Tefera (2000). Farmers to farmer's extension report on farm forestry at Kibwezi region. Machakos and Kisumu farmer's workshop held at Kibwezi (ICRAF Report).
8. **J.M. Mulatya**, D. Ochieng and D. Langat (1996). Report on past research on wood carving species in Kenya. On Sustainable development of Kenya wood carving industry project (AWF report).
9. **Mulatya J.M**, Victor. J.O, Kimama I., Maripet G.N and Mbugua. J.W (2018). Kenya Forestry Research Institute: ISO9001/14001: 2015 Certification procedure Manual for Integrated Quality and Management Systems in KEFRI.
10. KEFRI profile brochures – annually
11. KEFRI consultancy Curriculum vitae,
12. Annual reports - yearly
13. Quarterly Newsletters
14. Periodic Media articles and Supplements,
15. KEFRI Official Speeches,
16. Customer satisfaction reports
17. KEFRI Intellectual Policy guideline,

## 5.5.Policy Briefs

1. Coordinated and developed Mwongozo policies for the Institute
2. Developed Communication policy for the Institute, 2015
3. Developed OSHA policy for the Institute, 2016
4. Developed Branding policy for the Institute, 2015
5. Developed Corporate governance policy for the Institute, 2017
6. Developed EMS and QMS policies for the Institute 2011, 2016, 2018
7. Developed Intellectual Property rights (IPR) for the Institute, 2008
8. Developed Corporate Social Responsibility (CSR) policy for the Institute, 2017
9. Institutional Environmental policies, 2014
10. Consultancy guideline ,2011
11. Policies statement for both ISO 14001: 2015, QMS 9001:2015 and OSHA, 2017
12. KEFRI Service Delivery Charters, 2012, 2014, 2016
13. KEFRI career progression, 2010

## 6. RESEARCH

### 6.1.Completed

1. Desert Margin Programme (DMP) land degradation and Biodiversity conservation in ASALs; a collaborative project sponsored by GEF/UNEP 2002-2007.
2. Development of assessment protocols for NTSFP, funded by FAO in 2002-2003.
3. Pruning project to manage tree-crop interactions within dryland farming systems (2001-2003). This project is funded by ICRAF and DFID, UK.

4. Tree root development and interaction in drylands; comparing indigenous and exotic species with special emphasis on *Melia* with socio-economic evaluation. Funded by DFID in 1996- 2000, My PhD thesis proposal.
5. Agroforestry integrated development for semi-arid areas of Kenya (ARIDSAK) project; Involved in the initial project formulation, planning and sourcing of funding. Funded by Belgium Technical Corporation (BTC) in 1995-2003
6. Agroforestry research in Dryland areas of Kenya covering Makueni, Machakos, Taita Taveta and Kitui districts (Belgium Technical Cooperation Funded 1997- 2005)
7. ACIAR Project on establishment of indigenous and exotic Acacias; funded by Australian Government 1n 1992-1997.
8. Wood carving project, a collaborative project between KEFRI and NMK; funded by WWF in 1993-1997.
9. INCO-DC EU funded project “Seedling and plantation management in Southern and Eastern Africa 1n 1995-1998.
10. Social Forestry Project “Research extension phase 2” at Kitui, funded by JICA in 1990- 1995.

## **6.2. Ongoing research**

- VLIR Belgium sponsored project on propagation and utilization of *Melia volkensii*; implemented by University of Nairobi, Kenya Forestry Research Institute and Better Globe Forestry, 2015- 2022

## **6.3. Mentorship and supervision**

1. Supervising and mentoring (2020), Victor Jaoko (PhD – Ghent University), Priscilla Kimani (MSc- UoN), Constantin Duchmana (PhD- UoN), Purity Muli (MSc- UoN) and Brenda Iligosa (MSc- UoN).
2. I have been co-supervising university students at both Ph.D. and MSc. levels with university lecturers (2012-2016). Two PhD students (James Kimondo; Bangor University and Edward Mengich: Egerton University).
3. Supervising 3 MSc. Students currently on going in the University of Nairobi
4. I am also an External Examiner for Kenyatta University for MSc. Students in Environmental sciences from 2009 to date. Out of these 3 MSc. Students now (2018) are in University of Nairobi
5. Am an External Examiner on Environmental studies (MSc thesis), Kenyatta University since 2010.

## **7. INNOVATIONS AND PATENTS (Intellectual Property)**

- KEFRI Policy on Intellectual property Rights and Access to benefit sharing

## 8. CONFERENCES/SEMINARS/WORKSHOPS

### 8.1. Presentation of Papers at Academic and Professional Conferences

1. **J.M Mulatya (2005)**. On farm socio-economic survey of *Melia volkensii* in Kitui and Mbeere districts, Kenya. In Kimondo et al., (eds.). *Melia volkensii* research and development proceedings of a workshop held in Kitui regional Center 16th –19th December 2005
2. Maina I., Muturi G.M., **Mulatya J.M**, Ego. E., Nyariki D., Muthoka P., Kariuki J, Eilaba A.O.and Cheruiyot H.K (2004). Desert Margins Programme in Kenya: Integrated socio-economic analysis of benchmark sites Paper in the KARI 9<sup>th</sup> Conference held 1-4<sup>th</sup> November, at KARI Headquarters, Kenya
3. Wekesa L., **Mulatya. J.M.** and Misenya T. (2006). Bio-socio-economic of tree production in the south eastern drylands of Kenya; Proceedings of the 3rd KEFRI scientific Conference 6-9th November 2006, KEFRI Headquarters, Muguga (Muchiri et al, edits) pp281-296

### 8.2. Participation in Workshops/Conferences

1. Performance based Quality Objective setting, Performance Monitoring and Root Cause Analysis Course , held in 2019
2. Integrated Management systems Transition Internal Auditors course, held in 2018
3. Transition Implementation and Impact Awareness training based on ISO 9001:2015 and 14001:2015, held in 2017
4. ISO 9001:2015 and ISO 14001:2015 Integrated Management system Documentation Training, held in 2017
5. 2<sup>nd</sup> National Management Representatives Forum on “Disruption, innovation and Change” held in 2018
6. Risk management course on ISO 9001:2015 and ISO 1400:2015 Based on ISO 13000:2009 in 2016
7. An Implementers course based on ISO 9001: 2008 Standard in 2014
8. Introduction to ISO 14001:2004, Effective procedure writing and EMS Internal Auditor course in 2007
9. Training of trainers course on the implementation of Quality Management system based on ISO 9001: 2008 held in 2014
10. Assessment and Examination for ISO 14001 Internal Environmental auditing , held in 2010
11. ISO 14001:2004 Lead Auditors course in 2011
12. Internal auditors training on quality management system 9001:2008, held in 2015

### 8.3. Convening/Coordinating Conferences

1. Coordinated planning of 1<sup>ST</sup> National *Melia volkensii* workshop, 2004;
2. Coordinated ISO management training since 2006

## 9. PROFESSIONAL ENGAGEMENT

### 9.1. Training

1. Performance based Quality Objective setting, Performance Monitoring and Root Cause Analysis Course , held in 2019
2. Integrated Management systems Transition Internal Auditors course, held in 2018

3. Transition Implementation and Impact Awareness training based on ISO 9001:2015 and 14001:2015, held in 2017
4. ISO 9001:2015 and ISO 14001:2015 Integrated Management system Documentation Training, held in 2017
5. 2<sup>nd</sup> National Management Representatives Forum on “Disruption, innovation and Change” held in 2018
6. Risk management course on ISO 9001:2015 and ISO 14001:2015 Based on ISO 13000:2009 in 2016
7. An Implementers course based on ISO 9001: 2008 Standard in 2014
8. Introduction to ISO 14001:2004, Effective procedure writing and EMS Internal Auditor course in 2007
9. Training of trainers course on the implementation of Quality Management system based on ISO 9001: 2008 held in 2014
10. Assessment and Examination for ISO 14001 Internal Environmental auditing , held in 2010
11. ISO 14001:2004 Lead Auditors course in 2011
12. Internal auditors training on quality management system 9001:2008, held in 2015

## **9.2. Consultancies**

1. Environmental Impact Assessment and Environmental and Social Impact of Green Zones Project in Kenya , 2018
2. ITTO-ICRAF consultancy on commercial timber resources on farm in Kenya (2010)
3. Musimba Investment Company on determining feasibility of establishing Commercial Plantations for Timber, Woodfuel, Biofuel, and Carbon Sequestration at Musimba Farm Kulalu Ranch, Malindi (2010)
4. Lafarge East Africa on determining agrofuel species, alternative livelihood and management options for tree establishment in Mutomo district (2008).
5. Seeds for Life project on Convention on Biodiversity in Kenya based at National Museum of Kenya. Project Evaluation (2003)
6. Lake Victoria Project an ICRAF- SIDA project on dryland farming systems and introduction of valuable indigenous tree species for land degradation and Economic benefits (2003)
7. *Melia volkensii* propagation and planting within farmer’s fields in eastern (Makueni and Machakos) and western (Busia and Kakamega); ICRAF, (2002).
8. Dryland resources management on evaluation of valuable tree species and their establishment in Nyahururu and Laikipia ; DANIDA, (1992)

## **9.3. Collaboration with external organizations**

1. University of Ghent, Belgium

## **10. EXTERNAL AND INTERNAL RESEARCH GRANTS**

Include research grants won:

1. Belgium VLIR OUS Project on Elite multiplication of *Melia volkensii*

## **11. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS**

### **11.1. Local:**

Chairman Board of Management Mutha Secondary School

### **11.2. Regional:**

None

### **11.3. International:**

None

## **12. AWARDS AND RECOGNITION**

- Recognized within KEFRI Management through commendation letters

## **13. CONTRIBUTION TO KEFRIs ADVANCEMENT**

1. Headed and coordinated the Performance contracting Secretariat at KEFRI, since 2014 and the institute improved its performance rating from “Very Good” to the “Excellent” category over the last 3 years.
2. I extensively researched on *Melia volkensii*, a dryland timber species on issues of propagation, biomass estimation, tree improvement, tree crop interaction and its water use where I have published and results have been widely adopted on farm across the dryland sites in Kenya and in the region for socio-economic development. It’s now a flagship species widely planted commercially by farmers on- farms and private tree growers. These adoption efforts have made some farmers in Ukambani earn continual incomes. An example in case is **Mr. Jonathan Kituku Mungala**, Melia farmer in Makueni County who got Presidential recognition Award (EBS) for extensive Melia planting and training other farmers.
3. I have headed and coordinated successfully the development, establishment and implementation of both ISO Management systems (ISO 14001: 2015 and ISO 9001: 2015) certification since 2011 and maintained their continual improvement realization for quality delivery of institutes product and services.
4. I have managed and coordinated successfully research developmental partners/donors projects dealing with evaluation of appropriate species within dryland areas for socio-economic, cultural and ecological functions. The projects I have managed included JICA- social forestry, ACIAR – dryland species evaluation for reforestation, FINNIDA- Irrigated forestry for energy and fodder needs, DFID- impacts on yield in tree – crop interaction, EU- nitrogen fixation and rehabilitation species, BTC- dryland agroforestry, and GoK projects on information dissemination for adoption. The impacts of these projects have recorded improved tree cover and diversification of species for variate products and services. As such I have earned respect and usually consulted in the development of similar projects.

5. I started and strategically established the KEFRI office on Corporate Affairs and Public Relations since 2005. Over the years the office has now made KEFRI known locally and internationally with positive impacts of attracting development partners and stakeholders into beneficial partnerships. The office has now become a division in Directors office with various tasks/ disciplines and efficient work force.

#### **14. MEMBERSHIP TO PROFESSIONAL BODIES**

- Forestry Society of Kenya (Full member)

#### **15. REFEREES:-**

**1. Mr. Jan Vandenabeele**

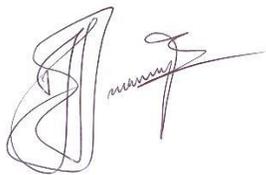
The Chief Executive  
Better Globe Forestry Ltd  
No.4, Tabere Crescent, Kileleshwa  
P.O.Box 823 – 00606  
Nairobi, Kenya  
Tel. 254 721796811 or 0733611300  
Email: [jan@betterglobeforestry.com](mailto:jan@betterglobeforestry.com)

**2. Prof. Reuben M. Muasya**

Deputy Vice- Chancellor  
South Eastern Kenya University (SEKU)  
P.o. Box. 43844  
Nairobi  
Tel 0721524102  
Email; [rmuasya@africaonline.co.ke](mailto:rmuasya@africaonline.co.ke)

**3. Dr. Benjamin Chikamai**

Forestry Consultant and Former Director KEFRI  
Nairobi- Kenya.  
Tel +254 733209043  
Email: [bnchikamai@gmail.com](mailto:bnchikamai@gmail.com)



Signature

