**SHORT CURRCULUM VITAE**

**Personal Details**

**Name** Paul Gitobu Mwitari

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paul**.**mwitari@kirdi.go.ke

Age 62 years

Married

**Skills**

 Extensive knowledge of ceramic technology at research and commercial level

 Ability to build specialized kilns and furnaces

 Ceramics raw material evaluation and applications

 Formulation and processing of ceramic products

 Formulation of glazes, fluxes, and pottery bodies

 Formulation of geopolymer cement and concrete

* Building soil stabilization

**Employment History**

**APRIL 2008 – PRESENT: Kenya Industrial Research and Development Institute**

*Principal Research Scientist*

 Development of composite building products from paper and leather waste

 Development of geopolymer based products

 Establishment of ceramics pilot plant at KIRDI

 Development of a ceramic high tension electrical insulator

 Establishment of pilot plant for brick production in Nandi County

* Establishment of ceramics pilot plant at Mukurwe-ini

 Development of energy saving stoves

 Testing and standardization of improved stoves

 Development of charcoal fuel briquettes

* Pottery incubation consulting
* Development of community cooker based on biomass waste
* Development of biomedical waste incinerator
* Development of point of use water treatment unit
* Production of test kilns for ceramics
* Development of gasifier essential oil distiller for herbs
* Members of KACET Sector Liaison Management Board

**2004 -2008: PRIMA GEMS (TANZANIA) LTD**

*Gemstone heat treatment manager*

 Establishment of a complete gemstone heat treatment plant at Arusha in Tanzania

 Heat treatment process development

 Total quality control of the process for treatment of Long’ido ruby

* Sorting and gemstone grading for export market

**1996 – 2004: GEMKIT ENTERPRISES LTD, KENYA**

*Technology Manager*

 Development of a corundum heat treatment facility

 High temperature furnace design and assembly for the heat treatment of gemstones

 Operation and management of Gemkit Enterprises equipment

 Extraction of beryllium from aquamarine for treating sapphires

*Ceramic beads production development*

 Development of ceramic bead production technology

**1992-1996: KENYA INDUSTRIAL RESEARCH AND DEVELOPMENT INSTITUTE**.

R*esearch Officer*

 Heading ceramics and building materials section,

 Ceramics raw materials investigations

 Low temperature glaze development and application in over glaze decoration

 Pozzolana cement development

**1981-1992: MINISTRY OF WORKS, MATERIALS DEPARTMENT**

*Materials Chemist*

 Laboratory analysis and evaluation of building and industrial materials

 Laboratory systems development

 Preparation of technical reports of materials tested

 Kenya Bureau of Standards Technical committee participation

 Undertake training and academic courses in relevant areas

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| **Education**  1972-1975 | Meru School | Meru | EACE | Division I  Ag. 11 |
| 1976- 1977 | Nyandarua High  School | Nyandarua | EAACE | Principal passes: Chemistry  Physics  Mathematics |
| 1978-1981 | University of Nairobi | Nairobi | Bachelor of Science | Second Class Honors  (Lower Division) |
| 1987- 1989 | University of Sheffield | Sheffield UK | Masters | MSc Tech-Ceramics |