**LOW VALUE MINERALS MINING**

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| **GENERAL INFORMATION** | |
| **Name:** | Martin Odhiambo Nyakinye |
| **Details:**  Position:  Email:  Phone no (office + mob): | Chief Supt Geologist  mnyakinye@yahoo.com  +254(020)2723101, +254718613942 |
| **Brief Description of the project:** | Mapping of carbonatitic limestone deposits in the Homa Hill area, Homabay county – Kenya - by use of ASTER satellite imagery including ground-truthing and preliminary sampling for qualitative characterization. |
| **Expected Outcomes:** | Knowledge of the spatial extent of the carbonatitic limestone in Homa Hill area, Homabay county, Kenya |
| **Expected Outputs:** | GIS maps of spatial relationships and report. Dissemination activities to stakeholders with appropriate reports of the outcomes |
| **Please describe how you plan to implement the return to work project:**(outline key partnerships and collaborations across sectors in your country as well as any joint collaboration with other countries) | ASTER satellite imagery covering Adiedo area will be procured, processed and interpreted. Geological, topographical (DTM) of the study area will be procured and processed. ASM areas will be mapped by GPS and plotted onto a GIS. These datasets will then be integrated and interpreted in a GIS to determine potential limestone deposits for subsequent ground checks (ground-truthing) and sampling.  Collaboration with Dr Crispin Kinabo from the University of Dar es Salaam, who is developing a vertical lime kiln for ASM, for piloting of his equipment to add value to ASM limestone mining. Sampling of the Adiedo limestone will be undertaken in order to understand its firing/burning characteristics and hence optimize products |
| **What indicators of success will you employ?** (include indicators of success that go beyond activity-level implementation) | 1. Improved knowledge of spatial extent of the limestone deposits within the study area, hence understanding of the available reserves  2. Additional ASM products from the limestone mining  3. Enhanced planning for ASM exploitation |
| **What other strategic opportunities have you identified that will contribute to the success and sustainability of your project?**  (include opportunities linked to national level policy, strategies and programmes as well as linkage to sub-regional and regional agenda) | Collaboration with the County Government of Homabay will strengthen sustainability of the improved outcomes |
| **What aspects of the training will be most useful in implementing your project?** Explain | Digital Satellite (ASTER) image analysis and interpretation |
| **What are your future plans?** (include any additional capacity building needs for your professional development that you have identified during the course of the workshop). | To replicate the RTWP in other ASM areas in mining-intensive counties in Kenya |