

# **GIRAF 2015 WORKSHOP**

## 06 - 09 October 2015, Maputo Mozambique

RETURN TO WORK (RTW) PLANS FOR UNDP SPONSORED PARTICIPANTS

#### I. RETURN-TO-WORK PLANS

Return to Work projects are a valuable mechanism for workshop participants' personal and professional development. As part of your sponsorship, you are required to develop a return-to-work plan on a project you will undertake on your return, applying the knowledge and skills gained from this 4<sup>th</sup> GIRAF workshop to influence change.

Periodic follow-up on the progress of implementation of the plan will be undertaken by UNDP, with the first update expected at the 2-month mark, in December 2015. A subsequent follow-up in April 2016 will be undertaken and periodic follow-ups thereafter.

#### **II. REPORTING STRUCTURE FOR RETURN-TO-WORK PLANS**

To facilitate ease of reporting and follow-up on your return to work project, the structure below outlines the key project elements that need to be covered in the reporting. **Please submit a draft Return to Work Project (RWP)** using the structure provided below.

GENERAL INFORMATION		
Name:	RUPERT SILILO	
<b>Details:</b> Position: Email: Phone no (office + mob):	RESOURCE GEOLOGIST rupertsililo@gmail.com +260977836183	
Brief Description of the project:	Delineation and Resource Estimation of the Kapiji Granite body for aggregate materials. The Kapiji quarry is situated in Solwezi district, Solwezi is the provincial head quarters of North-western Province of Zambia. Solwezi is approximately 450km from Lusaka the capital of Zambia and 160km to the west of Chingola. Access is via road which is currently under rehabitation, Solwezi town is also serviced by a small regional airport with daily flights from Lusaka and Ndola. Solwezi town is located at 12°11'S, 26°23'E and 1386 m (4547 ft) elevation above sea level	
Expected Outcomes:	JORC Compliant Resource estimate and Mine design.	
Expected Outputs:	<ul> <li>The are the outputsfor the scope of works carried by RALS GeoConsulting.</li> <li>1. Geological map 1:200 scale</li> <li>2. Geological and geo-technical database</li> <li>3. Resource block models</li> <li>4. Mine design</li> <li>An open pit measuring 400m long, 200m wide and 65m deep has been designed in the measured resource category of the Granite deposit. A 16m wide ramp acess at 10° gradient, 5m bench heights with 65° berm face angles for slope stability.</li> <li>The life of mine (LOM) within the proposed pit is estimated at 14 years. A production schedule has been planned at an intial</li> </ul>	

#### **REPORTING STRUCTURE**

	240,000 tons during the first year, it is anticipated that production
	will ramp-up by an average of 60,000 tonnes per year thereafter.
Please describe how you plan to	A water management plan has been implemented in the Kapiji
<b>project</b> : (outline key partnerships and	quarry after commencement of production.
collaborations across sectors in your	1. I wo drainage furrows on either side of the ramp access
country as well as any joint	nave been completed. The drain furrows will ensure
collaboration with other countries)	Controls of surface water down the ramp.
	2. Two drain furrows within the pit interconnecting with the
	nuisance water resulting from mining
	3 Settler ponds within the nit drain furrows have been
	completed to allow for solid separation in water
	4 Lime barriers have been proposed to allow for
	neutralization of acid mine drainage.
What indicators of success will you	Synite guarries has completed an EIA which has been approved by
employ? (include indicators of	the Zambia Enviromental Management Agency (ZEMA), the
success that go beyond activity-level	recommrndation of RALS have been incorporated in the EIA and
implementation)	are being implemented.
	RALS GeoConsulting has delivered a JORC compliant resource and
	reserve to Synite quarries. The total Mineral Resource amounted
	to 122 million tonnes. This resource consists of 52 million tonnes
	of Measured Resource, 48 million tonnes of Indicated Resource
	and 22 million tonnes of Inferred Resource.
	Proved reserves of 7.9million tonnes within the pit design have
	been estimated with a life of mine of 14 years subject to
	compliance to the Mine design.
What other strategic opportunities	The Zambian government through citizen economic
have you identified that will	empowerment in the mining has provided the following
contribute to the success and	incentives;
sustainability of your project?	1. Encourage mining companies to float shares on the
(include opportunities linked to	Luaska stock exchange.
national level policy, strategies and	2. Promote Zambian ownership of large scale mines through
sub-regional and regional agenda)	Citizen Economic Empowerment Act.
	3. Review legislation in order to reserve certain categories of
	mining rights and minerals for Zambians.
	4. Reseve a portion of the mineral royalt for the
	development of business in the mining communites.
What aspects of the training will be	The stones of development training has helped in having a
most useful in implementing your	balanced focus on business and managing environmental
	problems related with mining projects. Whereas employment,
	revenue and development will be initiated with the exploitation
	be carefully planned and impleted. These include aspects of
	managing.
	1 Severe land disturbances
	2. Air. water and land pollution
	3. Land rehabilitation after closure

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).	<ul> <li>Develop RALS to a full time business</li> <li>Manage its own quarry and and offer consultancy services</li> <li>Create employment and offer career development to geoscientists</li> <li>Protect the environmental management</li> <li>Main challenge</li> <li>Accessing financial help at low interest rates to establish the business. Depending on consultancy services is not self sustaining as the sector is not fully developed. RALS has identified potential areas to setup a model quarry.</li> </ul>
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### III. SUBMISSION DATE OF THE DRAFT RETURN-TO-WORK PROJECT

The draft Return to Work project is due **by Friday 16<sup>th</sup> October 2015** and should be sent to: Daniel Franks (daniel.franks@undp.org)