

**ACP-EU Development Minerals Programme  
Implemented in partnership with UNDP**

Programme Partners:



Implementation Partner:



**INTERNAZIONALE  
MARM E MACCHINE  
CARRARA SpA**

**REGIONAL TRAINING WORKSHOP ON QUARRY MANAGEMENT OF  
DIMENSION STONES AND CONSTRUCTION MATERIALS**

IMM Training Center, Carrara (Italy), 15-20 June 2016

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**RETURN TO WORK (RTW) PLANS**

*An initiative of the African, Caribbean and Pacific Group of States, financed by the European Union and United Nations Development Programme, and implemented by UNDP.*



## 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 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 **August 2016**. A subsequent follow-up in **February 2017** 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
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<b>Brief Description of the project:</b>  In any mining or quarrying operation there is always a substantial amount of waste material generated regardless of the type of mineral or rock being extracted.  For the type of quarrying the company I work for which primarily quarries construction aggregate, overburden is the primary waste material that has to be dealt with. Excessive overburden must be properly managed to not only to minimize environmental impact but also minimize cost to operations.  Proper and thorough exploration of a resource prior to commencement of quarrying operations can vastly improve in the planning for the management of this overburden effectively.  As highlighted in The Sustaining Project, new technologies that have developed methods for the selective exploitation by using non-destructive geophysical methods in 3D provide a real option to achieve better exploration.



This will allow us to optimize resources estimation, quarry-planning and extraction on the basis of quality data using geostatistical methods

Unfortunately the high costs of such technology are a major barrier particularly when the value of the mineral is relatively low as is the case with construction aggregates. So a balance needs to be found where as much of the available technology can be utilized at reasonable cost with maximum effectiveness.

The focus of this project will then be to firstly investigate and adopt as much of the technologies available and see how they could be applied in the local context considering all the limitations.

Additionally, through the Fiji NDM Technical Committee, I propose to find a workable cost effective resource estimation model to be used in the feasibility study phase of all new quarry applications. This will allow authorities to more effectively assess applications. It is not currently a requirement of new applications.

#### **Expected Outcomes:**

- Reduced negative impact on the environment in and around existing and new quarries.
- Reduced operational costs of quarry developments.
- Better more informed quarry planning processes.
- Better more informed processing of quarry license applications by regulatory authorities.

#### **Expected Outputs**

- Adoption of new technology for more extensive resource investigation best suited to local limitations.
- Adoption of targeted extraction methods for greatest operational efficiency and least environmental impact.
- A viable workable model to be adopted as a prerequisite to all new quarry license applications.

**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)**

- Make contact with SUSTAINING PROJECT team to learn more about Non-intrusive field investigations using geophysical methods.
- Identify viability of use of such technology in the local context and with limitations of finance and expertise.
- Acquire selected technology and train relevant personnel in its operation.
- Undertake pilot exploration of a selected quarry resource utilizing the technology.
- Collaborate with key industry stakeholders through the Fiji NDM Technical Committee on formulation of an exploration model using such technology to be included in feasibility phase of any new Quarry



application. This to be made mandatory but scaled according to the size and scope of the proposed application.

**What indicators of success will you employ? (include indicators of success that go beyond activity-level implementation)**

- Successful identification and acquiring of new technology suited to local situation.
- Successful completion of a pilot exploration study of a selected quarry.
- Successful extraction of construction aggregate by targeted methods limiting environmental damage and waste material creation.
- Adoption by regulatory bodies of proposed mandatory resource exploration model into feasibility phase of new quarry application process.

**What other strategic opportunities have you identified that will contribute to the success and sustainability of your project? (include linkages to sub-regional and regional agenda)**

- The selection of Fiji as a focus country for this program has brought together all stakeholders through the technical committee to review the EIA process as well as reassess the benefit sharing model in practice as the country return to work projects following the first training workshop in Dec of 2015. My project fits in at the feasibility stage before the EIA process that can be an added dimension complimenting the technical committee's project. The information from a thorough resource investigation will provide all stakeholders clarity in the potentials of a proposal and the real impacts it can have on the environment and surrounding communities. Also benefit sharing can be assessed more accurately for more real values of a proposal.
- There lies a business opportunity in offering exploration services to other operators locally here in Fiji and also to other Pacific Island countries. That is provided the service has been adequately tailored toward the needs of the operators and within a reasonable cost.

**What aspects of the training will be most useful in implementing your project? Explain**

- Exposure to use of new technology with real case study examples.
- Contacts with industry experts – interestingly enough on a number of occasions it was mentioned in the conference that the ACP countries must learn and not commit the same mistakes the more developed nations have made in the past. So with this knowledge from past experiences and coupled with the many advances in technology, the ACP countries are in a prime position to fully benefit from the vast resources



still existing in their countries without the negative impacts on the environment nor loss of benefit to the communities involved.

- Knowledge sharing among fellow ACP participants. The opportunity to learn from fellow participants that have similar issues and problems in their work.

**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).

### ACTION PLAN

Period	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7
<b>Activities</b>							
<b>Activity 1:</b>	Contact suppliers and collate technology options available.	Thoroughly assess tech options.	Trial selected technology and train local operators.	Trial selected technology and train local operators.	Conduct pilot exploration	Collaboration with NDM technical committee to develop exploration model	Collaboration with NDM technical committee to develop exploration model

### III. SUBMISSION DATE OF THE DRAFT RETURN-TO-WORK PLAN

The draft Return to Work plan is due **by Monday 11 July 2016** and should be sent to: Daniel Franks (daniel.franks@undp.org)

