

GENERAL INFORMATION	
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Brief Description of the project:	<p>Since I am within the Academic field the project will be research focused. A cross sectional study design will be employed by 4th Year Environmental Health & myself on Non Development Minerals/Neglected Development Minerals (NDMs). The studies conducted will be on the “possible questions “stated below.</p> <ol style="list-style-type: none"> 1. Is exposure to dust by quarry mine workers associated with occupational lung disease? 2. Is small scale mining a blessing or a curse relating to environmental, social, and economical benefits for landowners in Papua New Guinea? 3. Investigating NDMs and their potential for economic development in Papua New Guinea <p>Research focused Plan</p> <ol style="list-style-type: none"> 1. The research topics will be allocated to 4th Year Environmental Health Students who are interested in investigating NDMs in Papua New Guinea. The research will be for their final year project in order to qualify them to graduate. 2. The appropriate research questions will be developed to investigate. This is to provide base line information for the collaborative development partners (such as Mineral Resources Authority, Academia, NGOs, and the three tiers of Government- National, Provincial, and Local level Government Council) to assist them in their planning for development purposes 3. Relating to point 2, the research question can be based on collaboration with the development project partners noted above to investigate NDMs 4. In addition the research information and recommendations can be used by Regulating Authorities and the three tiers of the Government for planning, development of sound Policies for NDMs, and to assist them in decision making processes.
Expected Outcomes:	<ol style="list-style-type: none"> 1. Recognition of NDMs as a valuable commodity that can be mined, processed and value added to the material. The extracted non-mineral can be competitive in local markets and exported for economic returns . 2. That NDMs when recognized can be accepted by the three tiers of Government as an invaluable commodity 3. Economic prosperity to the landowners and the Country

Expected Outputs:	<ol style="list-style-type: none"> 1. The existing Mining Act of 1992 should include NDMs 2. The Mining Safety Act to include NDMs 3. A National Policy for NDMs 4. A National Data Base for NDMs in Papua New Guinea 5. The existing MRA training center for Alluvial Gold Miners should be funded, resourced to enhance training for Development partners example, Honours, Masters, and PhD programs for NDMs where necessary
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)	<p>Since I am within the Academic circles the knowledge and skills gained at the Fiji UNDP workshop</p> <ol style="list-style-type: none"> 1. Will be delivered to the Environmental Health undergraduate students. Teaching Environmental Health students who will most likely be serving in the rural areas This is because most of Environmental Health graduates work with NGOs, Government agencies, and mining companies. In addition, students will be resourceful in their future professional life one day when dealing with small scale miners. The training will be related to the mitigation of Occupational Health and Safety issues encountered by small scale miners which is briefly taught at Divine Word University. 2. Conduct In-service training sessions for field officers (Occupational Health and Safety officers, Environmental officers, and community health workers, serving in the rural areas on the issues affecting the LVMM sectors in PNG. This is because the alluvial scale business is generally given less opportunity and not much is known about the activity. 3. Thirdly, the Environmental Health Department has plans to introduce a Post Graduate Diploma in Occupational Health and Safety Program in 2016. Therefore the knowledge and skills gained in the workshop will enhance the facilitation of the proposed program. This action is in line with the University policies. This will cater for research aspects into the effects of mining operations including the village base alluvial activities. 4. The key partnership and collaboration will be between organizations such as the Mineral Resources Authority and the three tiers of Government, private sectors, and Resource Owners . This also includes partners from the Pacific Island Countries (Tonga, Samoa, Solomon Is, and Fiji as some of the many examples) for knowledge and experience sharing. That is why I have their contacts with me

<p>What indicators of success will you employ? (include indicators of success that go beyond activity-level implementation)</p>	<ol style="list-style-type: none"> 1. Monitoring and Evaluation Matrix to be developed to cater for the NDMs in PNG(Duguman,2015). 2. In addition Formative and summative evaluation will be developed and issued to quarry impacted areas during the research. The evaluation will provide data as to the success of the projects and the impacts it has on the environment, health and safety of the community and the workers 3. The implementation of the new curriculum for Occupational Health and Safety at Divine Word University in the 2nd Semester in 2016. The curriculum will be revised and include the component of LVMM relating to environment, health, and safety aspects of small scale mining.
<p>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)</p>	<ol style="list-style-type: none"> 1. Opportunities between the parties present in this workshop and the linkages through the work plan that will be developed addressing Vision 2050 and Sustainable Development Goal (Duguman,2015) 2. LVMM will be incorporated into the Project Specification Document of the New Post Graduate Diploma for Occupational Health and Safety to be implemented in the 2nd Semester of 2016.
<p>What aspects of the training will be most useful in implementing your project? Explain</p>	<p>All 9 modules and field visits relating to the environment, community, gender, health and safety aspects of the LVMM are really useful and will be implemented.</p> <p>The implementation of the knowledge and skills gained in the 9 modules will be included in the new curriculum for Post Graduate Diploma in Occupational Health and Safety.</p> <p>Moreover, the 4th year students will construct their research question relating to environmental, health and safety aspects of small scale mining based on the 9 modules to investigate and report of their findings. The findings if good enough can be published in the international journals and also useful for Regulating Authorities (Mineral Resources Authority)to use to devise Sound Policies for LVMM in the Country</p>
<p>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).</p>	<p>Plans for all team members to increase understanding in their own fields while contributing to NDM and related Vision 2050 and Sustainable Development Goals (Duguman,2015).</p> <p>In light of point 1 I would explore the possibility of doing a joint research with my academic colleagues in other Universities in the Country (UPNG Geological division) under the captainship of Dr. Duguman and Unitech for my PhD relating to LVMM and its potential for economic impact in Papua New Guinea.</p>