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**ASIA PACIFIC COLLEGE**

**SCHOOL OF ENGINEERING**

**COMPUTER ENGINEERING**

**SY 2018-2019, TERM 2**

**MINUTES OF THE MEETING**

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| **Date** | **:** | January 03, 2018 | | |
| **Time** | **:** | 3:00pm – 4:00pm | | |
| **Venue** | **:** | 7th Flr, 1515, L and S Building, Roxas Boulevard, Manila, 1000 Metro Manila | | |
| **Attendance** | **:** |  | | |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Risheene Dadoy**  Student  Asia Pacific College | | | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Engr. Alvin Requimin**  Geodetic Engineer  DENR-MGB MIMAROPA |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Hamill Marinda**  Student  Asia Pacific College | | | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Veronica Gubatan**  Student  Asia Pacific College |

***Agenda:***

* ***Signing of Minutes of the Meeting***
* ***Testing Plan and Implementation***

TESTING PLAN

* The possible testing site will be at a mine site in Brgy. Rio Tuba, Bataraza Palawan.
* The student will be forwarding a request letter for the mining company for the approval of the request.
* The student will be travelling by plane from Manila-Puerto Princesa for more than an hour and will be travelling for another 4hrs from Puerto Princesa to Brgy. Rio Tuba, Bataraza, Palawan.
* The possible date for Stockpile Volume Testing is scheduled on July – August 2019.
* During the Volume Verification, Engr Alvin Requimin, Chief of Survey MGB MIMAROPA will assist the said the testing.
* Based with the interview with Engr Requimin, the said activity was discussed with Engr. Roland de Jesus, Regional Director MGB MIMAROPA and the latter said that the student should write a LETTER request signed by the college dean or program director for the progress of the activity.
* In the event that the activity will be undertaken, the mining company will orient the student regarding the
* Have spoken with the Mining Company manager and got an ok for the testing.
* There will be an orientation that will be conducted by the company regarding its background, why it exists, safety, etc. as part of Information Education Campaign (IEC) on Mining Rules and Regulations
* Accommodation of the student will be with the relative of Risheene Dadoy who works as a security guard on the area.
* The stockpile to be scanned is a nickel ore stockpile.
* The stockpile area will be 2-3 hectares. A hectare will have 36-40 stockpiles which may vary in sizes and shapes and height mot more than 15 meters.
* The testing will include surveying using other equipment from the mining company such as Real Time Kinematics (RTK), Total Station, and Drone which uses Photogrammetry and the output (Volume) will be compared with the proposed device.
* Scanning may be one stockpile at a time.
* More define Testing Plan/ Module is to be follow up.

IMPLEMENTATION:

* The scanning device and the program will be used by MGB-MIMAROPA for stockpile volume validation in Rio Tuba, Palawan.

REQUIREMENTS FOR THE STUDENT:

* Requires sending a soft copy of Minutes of the Meeting and a copy of the thesis draft.
* Letter to the MGB MIMAROPA Regional Director
* Send Engr. Solidum an email so he can do a e-signature on the minutes. He was unavailable because he was on a site for a stockpile validation.

ADDITIONAL INFORMATION

* The compaction factor will be provided by the mining company.
* Currently with conventional survey using total station, a stockpile will require 100-200 shots/points to have more accurate volume estimation.
* Accuracy of the volume vary depending on the point density. The greater number of shots/points, the more accurate the volume estimation.
* It takes almost 2 hrs. to finish 1 stockpile. Time efficiency will be solved through aerial surveying using a drone.
* Weight of the total station including tripod, prism and rod is around 15-20 kgs. So they avail baggage with limit of 40 kgs. The equipment is not handled with care by the airline. There are instances that the lens was damaged and blur due to its sensitivity.
* The company also provide the agency with the raw data in an excel format but doesn’t have the software that can automatically generate the 3D Model and get the volume. Currently, they use CAD to create a contour before developing the 3D model.
* The survey would take 1-3 days only. With that period, they do random sampling to cross check it will what’s on the inventory.

Noted by:

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| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Engr. Sergio Peruda Jr.**  **Adviser**  **Asia Pacific College** |  |  |