



Department of Education
Region X- NORTHERN MINDANAO
DIVISION OF CAGAYAN DE ORO CITY
Fr. William F. Masterson, SJ Avenue,
KM5, Upper Balulang, Cagayan de Oro City

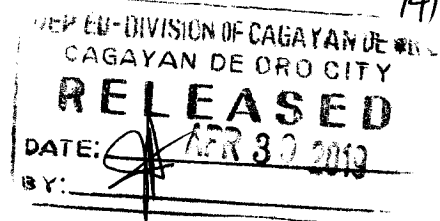


April 29, 2019

MEMORANDUM

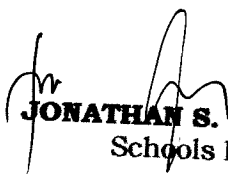
TO: **SOCMOB Program Specialists
DRRM Division Coordinator
SCHOOL HEADS OF:**

**City Central School
South City Central School
West Central School
Kauswagan Central School
Bugo Central School
Bulua Central School
Balulang Elementary School
Macasandig Elementary School
Bulao Elementary School
North City Central School
East City Central School
Lumbia Central School
F.S. Catanico Elementary School
Consolacion Elementary School
Bayabas Elementary School**



**ATTENDANCE TO THE STAKEHOLDER'S FORUM FOR THE PHILIPPINES
RESILIENCE OF SCHOOLS TO MULTI-HAZARD (PRISMH) PILOT PROJECT**

1. You are hereby directed to attend the Stakeholder's Forum on May 2, 2019 8:00AM to 12:00 Noon at the AVR 1, Old Library, Xavier University Main Campus relative to the pilot project of University College Lodon, De La Salle University and Xavier University - Ateneo de Cagayan entitled Philippines Resilience of Schools to Multi-Hazard (PRISMH). Please see attached letter of invitation for details.
2. Travel and other incidental expenses shall be charged to local funds, subject to auditing and accounting rules and regulations.
3. Immediate and wide dissemination of this Memorandum is desired.


JONATHAN S. DELA PEÑA, Ph.D., CESO V
Schools Division Superintendent

DepEd ✓

CAGAYAN DE ORO CITY DIVISION

Received by: J

Date: FEB 26 2019

Time: 3:07

22nd April 2019

Jonathan S dela Peña, PhD, CESO V
 Schools Division Superintendent
 Department of Education – Cagayan de Oro Division

Dear Dr. Jonathan,

I am pleased to inform you that Cagayan de Oro City has been chosen as the pilot area in a project called: **Philippines Resilience of Schools to Multi-Hazard (PRISMH)**. This project is a joint collaboration between the University College London (UCL), De La Salle University (DLSU), and Xavier University - Ateneo de Cagayan (XU).

The aim of this project is to develop an advanced resilience assessment framework for school infrastructures subjected to multiple natural hazards in the Philippines. In particular, the project addresses risk from seismic, wind, and flood hazards. The project also looks at the functionality and resilience of schools during and in the aftermath of disasters. The PRISMH project is funded by the British Council and the Commission on Higher Education (CHED). For your reference, attached please find the PRISMH Project Primer.

In the past months, we have conducted engineering and social surveys in several public school buildings and campuses in the city. As part of the project's culminating activities, we are inviting you to a **Stakeholder's Forum on May 2, 2019 (Thursday), 8:00AM - 12:00NN** at the **AVR 1, Old Library, Xavier University Main Campus**. Leading experts in the field of structural engineering and disaster resilience from the United Kingdom and the Philippines will present the outputs of this joint collaborative project. Attached please find the draft Program Flow of the said activity.

With your kind permission, we also wish to invite the Principals of the following fifteen (15) school campuses, which were included in the surveys:

- | | |
|----------------------------------|--------------------------------------|
| (1) City Central School | (9) Bulao Elementary School |
| (2) South Central School | (10) North Central School |
| (3) West Central School | (11) East Central School |
| (4) Kauswagan Central School | (12) Lumbia Central School |
| (5) Bugo Central School | (13) F.S. Catanico Elementary School |
| (6) Bulua Elementary School | (14) Consolacion Elementary School |
| (7) Balulang Elementary School | (15) Bayabas Elementary School |
| (8) Macasandig Elementary School | |

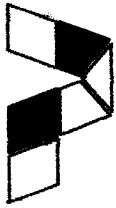
We look forward to you positive reply. Thank you very much!

Very respectfully yours,



Dexter S. Lo
 Director, Institutional Societal Engagement
 Xavier University - Ateneo de Cagayan

For queries, please contact Ms. Therese Rhea Rose Baliwag: 0936-953-3884



PRISMH
Philippines Resilience of
Schools to Multi-Hazard



Xavier University

Philippines Resilience of Schools to Multi Hazard (PRISMH) A Stakeholder's Forum

May 2, 2019 (Thursday)

AVR 1, Old Library, Xavier University Main Campus

- 08:00 – 08:30 Registration
- 08:30 – 09:00 Preliminaries
Invocation
National Anthems
Welcome Remarks
- 9:00 – 11:00 PRISMH Project Output Presentation:
- Comprehensive School Safety Framework
- Philippines Schools Typology
- Philippines Hazard Assessment: Earthquake, Flood, and Wind
- Seismic Vulnerability of School Infrastructures
- Flood Vulnerability of School Infrastructures
- Wind Vulnerability of School Infrastructures
- Emergency Shelters and Evacuation in School Infrastructures
- 11:00 – 11:15 Open Forum
- 11:15 – 11:45 Response from Stakeholders
Department of Education
City DRRM Department
Local Government Unit – Cagayan de Oro City
- 11:30 – 12:00 Synthesis
Awarding of Certificates
Closing Remarks



**BRITISH
COUNCIL**

Contact Information:

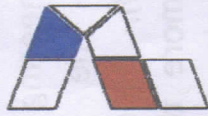
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Funded by:



PRISMH
Philippines Resilience of
Schools to Multi-Hazard



Xavier University



Philippines Resilience of Schools to Multi-Hazard (PRISMH)

A Primer

In 2015, the Xavier University Engineering Resource Center (XUERC), in coordination with the Department of Education (DepEd – Region 10), conducted a rapid structural assessment study of more than 200 school buildings in the nine Central Schools of Cagayan de Oro City, Philippines. The XUERC team used widely accepted methodologies that were tailored to the Philippine setting by structural engineering experts from the De La Salle University – Civil Engineering Department (DLSU).

Results show that more than half of the existing buildings, many of which are built before the seismic provisions of the current structural code were updated, may be at risk when exposed to large earthquake events. This means that a more detailed review of both the structural and functional systems of the schools is highly recommended.

To this aim, the Earthquake and People Interaction Centre (EPICentre) at the University College London (UCL) in the United Kingdom, DLSU and XUERC collaborated for a joint research project on: “Safer Communities through Safer Schools” (SCOSSO) in Cagayan de Oro City. The main aim of SCOSSO is to develop an innovative, advanced, multi-hazard risk assessment framework for school infrastructures in the Philippines. As a result, the SCOSSO mobile application is now available for free download and use to conduct rapid visual surveying and vulnerability

assessment of schools against strong winds, floods, and earthquakes. The app will give instant simplified physical vulnerability estimation, and the data can be easily extracted to spread sheet. To date, the app has been used to survey more than 300 schools in five different countries around the world.

To further enhance and harmonize the physical and social vulnerabilities with regards to resilience of school infrastructures subjected to multiple hazards in the Philippines, the UCL-EPICentre, DLSU and XUERC have again partnered for a project called PRISMH, to investigate the effectiveness of building retrofit measures, early warning provisions and social preparedness measures as means of preventing casualties, reducing economic losses and maintaining functionality of school infrastructures and its role in the community during disasters.

The PRISMH project will focus on learning how school infrastructures functioned and were used during past disaster events, particularly: in Surigao during the 2017 earthquake, in Tacloban during Typhoon Haiyan, and in Cagayan de Oro during recent floods events. The project aims to develop an innovative and advanced multi-hazard resilience assessment framework and guidelines for the effective role and function of school infrastructures in promoting resilient communities in the Philippines.