

## RESPONSE TO RTEC COMMENTS

SETUP CORE ☐ LOCAL GIA ☒

<b>Project Title:</b>	Automatic Flood Monitoring System for Boac River
<b>Beneficiary/Proponent:</b>	Marinduque State College / Boac & Mogpog
<b>Province:</b>	Marinduque
<b>Amount Requested:</b>	₱ 2,725,856.00
<b>Date of Evaluation:</b>	March 26, 2021


RTEC Comments	Response
How much is the total area affected and why only 5 stations?	<ul style="list-style-type: none"> <li>Boac - 212.70 square kilometers</li> <li>3 stations will be developed and will be deployed to strategic areas in boac river where it could gather water level at the same time it could send data to the designated server.</li> <li>The project was planned to construct along Boac River Stretch to monitor and evaluate the condition of the said river and the danger of abandoned Marcopper Dam that may cause flash flood once the retaining wall collapsed. The areas possibly affected of those hazards are those communities along or near the said river. We plan to station 3 monitoring system located on Barangay Hinapulan, Sitio Pinagsangahan and Barangay Tampus which are considered as strategic locations for the project and due to limited source of fund.</li> </ul>
Include the baseline information of the target beneficiaries.	<p><b>Based on 2015 CBMS data</b> <b>LGU Boac</b> 1<sup>st</sup> Class Municipality Households: 12,265 Total Population: 50,850</p> <ul style="list-style-type: none"> <li>Based on the Marinduque Disaster Risk Reduction and Management Plan (2018), most of the community affected by flood are those barangays located near or along the Boac River and consider as High Flood Susceptible, they are the barangays of Malusak(Pob ), Mercado (Pob.), Murallon(Pob.), Isok I (Pob.), Isok II(Pob.), San Miguel (Pob.), Tampus(Pob.), Amoingon, Balagasan, Balaring, Balimbing, Balogo, Bamban, Bangbangalon, Bantay, Binunga Boi, Boton, Buliasnin, Bungany, Caganhao, Catubugan, Cawit, Daig, Ihatub, Laylay, Lupac, Maiinit, Maligaya, Ogbac, Pili, Poctoy, Poras, Puyog, Santol, Sawi, Tabi, Tabigue, Tagwac, Tambunan and Tanza. The said barangay will also considered as the target beneficiaries of the project.</li> </ul>
Include the breakdown of all the contributions/counterpart of MSC	<ul style="list-style-type: none"> <li>Please see the attached DOST Form A</li> </ul>

*"Hatid ay makabagongsolusyon!"*



and other agencies in the LIB.	
If possible, include Mogpog as a beneficiary since it is a flood-prone area.	<ul style="list-style-type: none"><li>We look forward to adopt these strategies in mitigating the adverse effect of nature by different LGUs, and if the fund permits, there are no hesitations to install it also in Mogpog and to those low lying areas around the province.</li></ul>
Define the responsibilities of the LGU-involved and draft a contract defining the counterparts of other involved agencies.	<ul style="list-style-type: none"><li>Marinduque State College-School of Engineering (MSC-SEng) shall lead the project as the technical agency that will handle the development, overall installation and maintenance of the Automatic Flood Monitoring System and coordinate with other concerned agencies for the implementation of the project</li><li>As Research and Development part of the proposed project, MSC-SEng will develop a system. Control circuit will be installed by Electrical Engineering (EE) group, electronics and programing will be handled by Electronics and Communication Engineering (ECE), Computer Engineering (ComE) and EE group including installation of Fame IoT Platform system for water level sensor data transmission and messaging. Mechanical part such as assembly of pole and other steel works will be assigned to Mechanical Engineering (ME) group. GIS mapping of flood and other parameters will be handled by Civil Engineering (CE) group. Installation and testing of the system to the site will be a group effort in partnership with DOST-PSTC Marinduque.</li><li>DOST MIMAROPA will provide technical assistance to Marinduque State College that includes the acquisition of technology for data transmission and messaging needed for the said project.</li><li>DOST-PSTC Marinduque together with MSC-SEng will be coordinating with concerned agencies regarding the project and implementation. Focal person from MSC SEng and DRR Officer will be assigned to monitor system and coordinate with the corresponding agency in time of calamity.</li></ul>

Prepared by:

  
**EDGARDO LARIRIT**  
College DEAN CEIT