

# TECHNICAL SPECIFICATIONS

## MULTI HAZARD IMPACT BASED MONITORING, FORECASTING AND EARLY WARNING SYSTEM SOFTWARE (MHEWS)

TECHNICAL SPECIFICATIONS
<p><b>1. EMERGENCY OPERATIONS CENTER (EOC) CENTRALIZED DASHBOARD FOR MDRRMO</b></p> <ul style="list-style-type: none"> <li>● Cloud-Based Web Application</li> <li>● Up to 10 Natural Hazard Parameters</li> <li>● Centralized Threat Analysis               <ul style="list-style-type: none"> <li>○ Threat View in consolidated GIS &amp; Table format</li> <li>○ Municipality Threat View</li> <li>○ Barangay Threat View</li> <li>○ National Threat View</li> </ul> </li> </ul>
<p><b>2. EMERGENCY OPERATIONS CENTER (EOC) CENTRALIZED DASHBOARD FOR BARANGAYS</b></p> <ul style="list-style-type: none"> <li>● Cloud-Based Web Application</li> <li>● Up to 10 Natural Hazard Parameters</li> <li>● Barangay Threat Analysis               <ul style="list-style-type: none"> <li>○ Threat View in GIS &amp; Table format</li> <li>○ Map View</li> <li>○ Observation Table View</li> <li>○ Forecast Table View</li> <li>○ Severe Weather Table View</li> </ul> </li> </ul>
<p><b>3. AUTOMATED REPORTING</b></p> <ul style="list-style-type: none"> <li>● Cloud-Based Data Processing</li> <li>● Up to 10 Natural Hazard Parameters</li> <li>● Pre-Disaster Risk Assessment (PDRA) Report based on standard DRRMO best practices, event-triggered and automatically sent via email</li> <li>● Barangay Daily Weather Risk Analysis Report based on standard DRRMO best practices, scheduled-triggered and automatically sent via email</li> </ul>
<p><b>4. LOCALIZED ALERTING</b></p> <ul style="list-style-type: none"> <li>● Cloud-Based Data Processing</li> <li>● Up to 5 Natural Hazard parameters</li> <li>● SMS Alerts – Event triggered automated SMS Alerts with 1,000 SMS Credits available</li> <li>● Facebook Page Auto Post - Event triggered automated Facebook Page Alerts in Image &amp; Text Format</li> <li>● Telegram Group Alerts - Event triggered automated Telegram Page Alerts in Image &amp; Text Format</li> </ul>
<p><b>5. ENVIRONMENTAL INTELLIGENCE DATASETS</b></p> <ul style="list-style-type: none"> <li>● Up to 10 Natural Hazard Parameters</li> <li>● Cloud-Based Data Processing, Aggregation from reputable data sources such as Government, Private Sector, Satellite-Based and Artificial Intelligence (AI).</li> <li>● Location-based weather               <ul style="list-style-type: none"> <li>○ Rain, Wind, Temperature and Air Quality</li> <li>○ Weather observations, weather forecast &amp; nowcast at any GPS location within</li> </ul> </li> </ul>

<p style="text-align: center;">identified area</p> <ul style="list-style-type: none"> <li>● Severe weather observations and forecast <ul style="list-style-type: none"> <li>○ Consolidated Typhoon Observations and Forecast (PAGASA, JTWC, JMA)</li> <li>○ Lightning Strikes (at least 95% lightning detection efficiency of CG lightning)</li> <li>○ Dangerous Thunderstorms (30min to 1hr early detection of Dangerous Thunderstorms)</li> </ul> </li> <li>● Alternative Rain Radar covering identified area and surrounding areas <ul style="list-style-type: none"> <li>○ Rain attenuation method to get real time rain with 5km rain resolution and 5min update in data &amp; map layer format</li> </ul> </li> <li>● Earthquakes <ul style="list-style-type: none"> <li>○ Recent Earthquakes</li> </ul> </li> <li>● Road Traffic <ul style="list-style-type: none"> <li>○ Recent Road Traffic map layers updated every 15min</li> </ul> </li> <li>● Weather vs mosquito activity <ul style="list-style-type: none"> <li>○ Mosquito activity forecast based on weather at any GPS location within identified area</li> </ul> </li> </ul>
<p><b>6. APPLICATION LICENSE, WARRANTY &amp; TECHNICAL SUPPORT</b></p> <ul style="list-style-type: none"> <li>● One (1) year Cloud/Application Licenses, Support &amp; Warranty with 98% service availability</li> <li>● One (1) year Environmental Intelligence Data Licenses with 98% service availability</li> <li>● One (1) year Meteorologist &amp; Data Scientist Support</li> <li>● 1,000 SMS Credits</li> </ul>
<p><b>7. TRAINING</b></p> <ul style="list-style-type: none"> <li>● 1 Day Applications System Admin Training</li> <li>● 1 Day End User Training</li> <li>● 1 Day Environmental Data Fundamentals Training</li> </ul>

**ANNUAL FEES**

**50,000 PHP X <number of Barangays> = \* \_\_\_\_\_ PHP**  
*\*Discounts are available for more than 10 barangays*

**TO REQUEST FOR FORMAL QUOTE, PLEASE CONTACT**

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