POST MONITORING SYSTEM OF SOCIAL DEVELOPMENT MANAGEMENT PROGRAM AND PROJECT PROGRAM ACTIVITIES (SDMP – PPA) FOR LNL ARCHIPELAGO MINERAL INC. STA CRUZ, ZAMBALES

Maricar Joy N. Francisco
Elana Mae M. Galorio
Mary Joy M. Metran
Mark David M. Misa
Lea Mae M. Valentino

A Thesis
In partial Fulfillment of the Requirements
for the degree of Bachelor of Science in Computer Science
College of Communication and Information Technology
President Ramon Magsaysay State University
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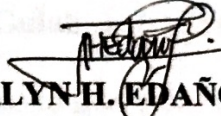
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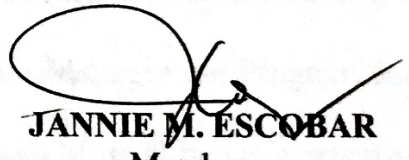
APPROVAL SHEET

This, study entitled **"POST MONITORING SYSTEM OF SOCIAL DEVELOPMENT MANAGEMENT PROGRAM AND PROJECT PROGRAM ACTIVITIES (SDMP – PPA) FOR LNL ARCHIPELAGO MINERAL INC. STA. CRUZ, ZAMBALES"** A.Y. 2023-2024 prepared and submitted by **MARICAR JOY N. FRANCISCO, ELANA MAE M. GALORIO, MARY JOY M. METRAN, MARK DAVID M. MISA,** and **LEA MAE M. VALENTINO** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** are hereby recommended for oral examination.

ANALYN H. EDAÑOL
Adviser

Approved by the Panel of the Oral Examiners on _____ with a grade of _____.

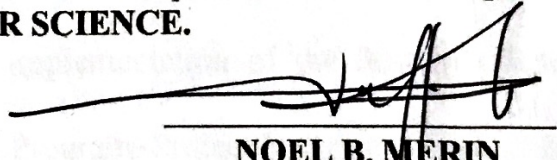**CHARLIE Z. RANCE**
Chairman

JING JING GONGORA
Member

JANNIE M. ESCOBAR
Member

JOHN APRIL S. MARPA MSCS
Member

Accepted and approved in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN COMPUTER SCIENCE.**

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Date Signed

NOEL B. MERIN
Campus Director

EXECUTIVE SUMMARY

The Post Monitoring System of SDMP-PPA for LNL Archipelago Minerals Inc. enhances operational efficiency and simplifies material tracking for the company. The barangay representatives are tasked with logging into the system and updating the status of materials implemented by LNL Company. Meanwhile, administrators or staff are responsible for managing the reports and monitoring the implementation of materials. The study used a descriptive research method, using surveys and analysis approach. This methodology was chosen to provide a comprehensive evaluation of the Post Monitoring System of SDMP-PPA for LNL Archipelago Minerals Inc. By gathering feedback from stakeholders and analyzing data, the study aimed to evaluate how effective and functional the Post monitoring system.

The respondents' perception towards the software quality of the Post Monitoring System of SDMP-PPA for LNL Archipelago Minerals Inc. was based on ISO/IEC 25010 metrics(a) Functional Suitability, which had an average weighted mean of 3.96 and interpret as Excellent; (b) Performance Efficiency, which had an average weighted mean of 3.93 and interpret as Excellent; (c) Compatibility, which had an average weighted mean of 3.56 and interpret as Excellent; (d) Usability, which had an average weighted mean of 3.86 and interpret as Excellent; (e) Reliability, which had an average weighted mean of 3.88 and interpret as Excellent; (f) Security, which had an average weighted mean of 3.83 and interpret as Excellent; (g) Maintainability, which had an average weighted mean of 3.92 and interpret as Excellent; and (h) Portability, which had an average weighted mean of 3.85 and interpret as Excellent.

The respondents' perception towards the level acceptability of the Post

Monitoring System of SDMP-PPA for LNL Archipelago Minerals Inc. was based on ISO/IEC 20501 metrics in terms; (a) Functionality, which had an average weighted mean of 3.91 and interprets as Highly Acceptable; (b) Performance, which had an average weighted mean of 3.87 and interprets as Highly Acceptable.

The respondents' perception towards the level readiness of the Post Monitoring System of SDMP-PPA for LNL Archipelago Minerals Inc. was based on ISO/IEC 25010 metrics in terms; (a) Facility, which had an average weighted mean of 3.87 and interprets as Very Ready; (b) Technical Personnel, which had an average weighted mean of 3.92 and interprets as Very Ready.

In review of findings and conclusion, the researcher offers the following recommendation: (1) Regular maintenance of the system is essential to ensure continuous operation, prevent malfunctions, and detect bugs and errors, making the Post Monitoring System operate smoothly. This involves applying software updates and upgrading hardware to prevent faults and reduce the chances of system failures. By staying informed about the latest technology developments and following security guidelines, it ensures the system remains reliable over time. (2) To improve compatibility of the system, it's important to ensure the system works smoothly on different web browsers and software setups. It must be properly tested, the list of required software must be updated, and any compatibility problems must be resolved. By doing this, the system will function properly across various environments, making it easier for users to access and use. (3) To improve system security, regularly updating the system with the latest security patches helps minimize risks and protect against threats. Additionally, implementing regular data backups ensures critical information can be restored in the event of a security incident or

data loss. Keeping the system up-to-date also guards against emerging threats. (4) Provide tutorials and user guides to address usability issues and give users the information and abilities they need to operate the software effectively. Ensure users receive comprehensive training and support to effectively utilize the software's features. (5) Prioritize user friendliness, real-time information delivery, and effectiveness in order to enhance the system's performance. First, improve the system's usability through user testing and improved design. Upgrade infrastructure for faster data processing. Lastly, enhance efficiency by modernizing technology and simplifying processes. With ongoing monitoring and improvements, the system can become more user-friendly, deliver information in real-time, and operate more effectively. (6) To improve the facility of the system and address internet connectivity issues, it's recommended to upgrade to fast and reliable internet, set up backup connections to avoid downtime, and monitor the network regularly to fix issues immediately. Additionally, regularly check the facility's performance, gather feedback, and make necessary improvements, ensuring the system function well and stays reliable.