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Laguna Lake Development Authority  
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## APPROVAL PAGE

# Laboratory Information Management System (LIMS)

### TERMS OF REFERENCE

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### KEY TERMS

ABC	Approved Budget Cost
COTS	Commercial-Off-The-Shelf
DICT	Department of Information and Communications Technology
ELRD	Environmental Laboratory & Research Division
LAN	Local Area Network
RMDD	Resource Management Development Department
ROLA	Results of Laboratory Analysis

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## 1 INTRODUCTION

### 1.1 EXECUTIVE SUMMARY

The Laguna Lake Development Authority (LLDA) was organized by virtue of Republic Act No. 4850 as a quasi-government agency with regulatory and proprietary functions. Through Presidential Decree 813 in 1975, and E.O. 927 in 1983, its powers and functions were further strengthened to include environmental protection and jurisdiction over the lake basin's surface water. In 1993, through E.O. 149, the administrative supervision over LLDA was transferred from the Office of the President to the DENR.

The Authority is mandated to lead, promote and accelerate the development and balanced growth of the Laguna de Bay area within the context of national and regional plans and policies for social and economic development, and to carry out the development of the Laguna de Bay Region with due regard and adequate provision for environmental management and control, preservation of the quality of human life and ecological systems and the prevention of undue ecological disturbances, deterioration and pollution.

Our Environmental Laboratory and Research Division is tasked to monitor the water and sediment quality of the lake, its tributary river systems, the Pasig River and the crater lakes of San Pablo City, Liliw, Rizal, Nagcarlan, and Los Baños, Laguna; as well as to provide technical services such as laboratory analyses of effluent and other samples to industrial pollution control activities and other environmental programs and projects of other divisions of the authority and outside clients.

To improve efficiency and promote transparency in the conduct of laboratory operation analysis for water quality monitoring, we plan to procure state-of-the-art Laboratory Information Management Systems (LIMS). This system is also included in our Information System Strategic Plan (ISSP) for 2018-2021.

The LIMS shall incorporate the following features:

- Secured and Transparent Transactions, with audit trail of every transaction;
- Connected Laboratory Workflow and Processes.
- Executive Level of Reporting and Analysis, which gives single data source and data generation, and generates reports and provide predictive analysis anytime, anywhere;
- Provide unified common entry point only for authorized laboratory personnel to ensure confidentiality, integrity and availability;
- 24x7x365 real-time and fast information available anytime, anywhere for authorized staff; and
- User-Friendly Screen Designs that closely adheres to existing systems' designs and further innovated if warranted.

