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## REQUIREMENTS

### LABORATORY INFORMATION MANAGEMENT SYSTEM (LIMS)

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## **1.0 INTRODUCTION**

This document sets out the requirements of Gulf Laboratories for a Laboratory Information Management System (LIMS). We aim to cover what the system should do now and in the foreseeable future. In this way we hope to design a flexible system that can grow and evolve with the company.

## **2.0 PROJECT OVERVIEW**

### **2.1 Company overview**

Gulf Laboratories Co. WLL provides ground investigation, borehole drilling and a wide range of laboratory testing services to international and local clients within the State of Qatar.

We have extensive laboratory testing facilities located in the Salwa Industrial Area in Doha, Qatar. Our physical testing laboratories are located at St.13 and our chemical, environmental, petroleum and food testing facilities are located at St.2. In addition, we also establish, staff and operate site laboratories as well as carry out in-situ testing and sampling.

We employ over 250 qualified laboratory technicians, chemists, microbiologists and other technical staff, who are supported by an extensive quality control and quality assurance department.

Our quality and HSE management systems have been certified to ISO 9001, OSHAS 18001 and ISO 14001 and we also have around 500 tests accredited to ISO17025. We are an Ashghal (Public Works Authority of Qatar) approved laboratory.

### **2.2 LIMS overview**

The objectives for a new LIMS are:

1. Removal of impediments to productivity:
  - a. Reduce or eliminate the need for paper and laboratory notebooks
  - b. Eliminate data duplication and data transcription where possible
2. Speed up current processes and workflows:
  - a. Production of test programs (TP), lab reports
  - b. Retrieval of information from the database
3. Insight in the business parameters and trending:



- a. Laboratory performance in productivity and cost
- b. Management reports including graphics

The aim is to reduce turnaround times by 40%.

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