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**Hydropower Investment
Promotion Project (HIPP)**

ASSET MANAGEMENT SOFTWARE SPECIFICATIONS FOR GSE

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USAID HYDROPOWER INVESTMENT PROMOTION PROJECT
(HIPP)

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1. TABLE OF ACRONYMS

GSE	Georgian State Electrosystem
PPE	Property, Plant & Equipment
FIFO	First in, first out
LIFO	Last in first out
IFRS	International financial reporting standards
IAS	International accounting standards
GPS	Global positioning system
GPRS	General packet radio services

2. INTRODUCTION

GSE is looking for a software solution to meet the demands of equipment performance, reliability and longevity. Asset management software will support GSE to:

- Extend the useful life of its equipment and reduce operating expenses while avoiding costly failures by:
 - Monitoring the current condition of company-owned plant, property & equipment (PPE);
 - Tracking and identifying maintenance cycles
 - Identifying and updating regularly the useful life of each asset before it needs replacement;
- Identify and plan in a timely manner necessary material and human resource requirements for managing assets;
- Identify life extension needs;
- Keep company-owned PPE in a healthy & fully functional condition.

Asset management software will enable GSE to bring together all the data from both field and office into a consolidated database and re-distribute the information back to the field on mobile devices, so its engineers and technicians have the necessary information where and when they need it, for timely decision making and prompt action. GSE's maintenance personnel will be provided with an easy-to-use maintenance tool to plan activities based on need and equipment condition and also to assess equipment condition and probability of failure.

3. USERS

The GSE users of the asset management software will include:

- General Management;
- Technical Department;

- Material Management; and,
- Financial Department.

4. HARDWARE REQUIREMENTS

The general specifications of hardware of the asset management system is provided below.

- Local Network (advanced: Remote Network, Internet);
- Quantity and quality of computers (see Appendix 1);
- Advanced Operation System (MS Windows 7 and higher);
- Roll-back process (System not to lose the information in case of emergency computer shutdown);
- Antivirus protection and backup system (1 Data Store Server); and,
- GPS and GPRS connection

5. SOFTWARE REQUIREMENTS

The general specifications of the software associated with the asset management system is as follow:

- Store and issue all internal documentation (including but not limited to upload manuals, drawings, pictures, contracts, or any rich media documents and relate them to the assets);
- Store and report the Inventory in logistic structure;
- Store and report the Fixed Assets in aggregated (hierarchical) structure; easily create and edit records for equipment, components, and subcomponents;
- Able to customize the different approaches of costing for inventories (FIFO, LIFO, etc.) based on IAS (IFRS), local regulation and management needs;
- Able to customize the different value of fixed assets (historical, replacement, etc.) based on IAS (IFRS), local regulation and management needs;
- Able to customize the depreciation costing with different rates (useful life period) based on IAS (IFRS), local regulation, taxation and management needs;
- Have flexible Report Generator with auto-generation of the reports with e-mailing option on a pre-set schedule;
- Consolidate information within the groups;
- Easily view all work history and charges related to each asset;
- Track warranty information;
- Generate barcode labels for any asset;
- Generate customized “cost and repair” reports for components;
- Track and report on equipment failures and number of occurrences;
- Able to export data to widespread formats (f.i xls*, other);
- Export-import ability from/to widespread applications and MIS used at GSE;

- Have multi-language support;
- Able to link with existing accounting software;
- User-friendly interface and entry features; and,
- User-friendly manuals (requires minimum computer knowledge).

6. ASSET MANAGEMENT SOFTWARE FEATURES

The features of the asset management software should include, but not limited to, the following functionalites:

- Equipment data;
- Equipment groups’
- Maintenance orders and alerts’
- Maintenance forecasting;
- Inspections;
- Parts and materials;
- Time keeping and resources;
- Location results list;
- Financial reporting; and,
- Dissolved gas analysis.

7. APPENDIX 1

7.1 The Structure of Asset Management hardware and software requirement.

Branches and field offices (substations):

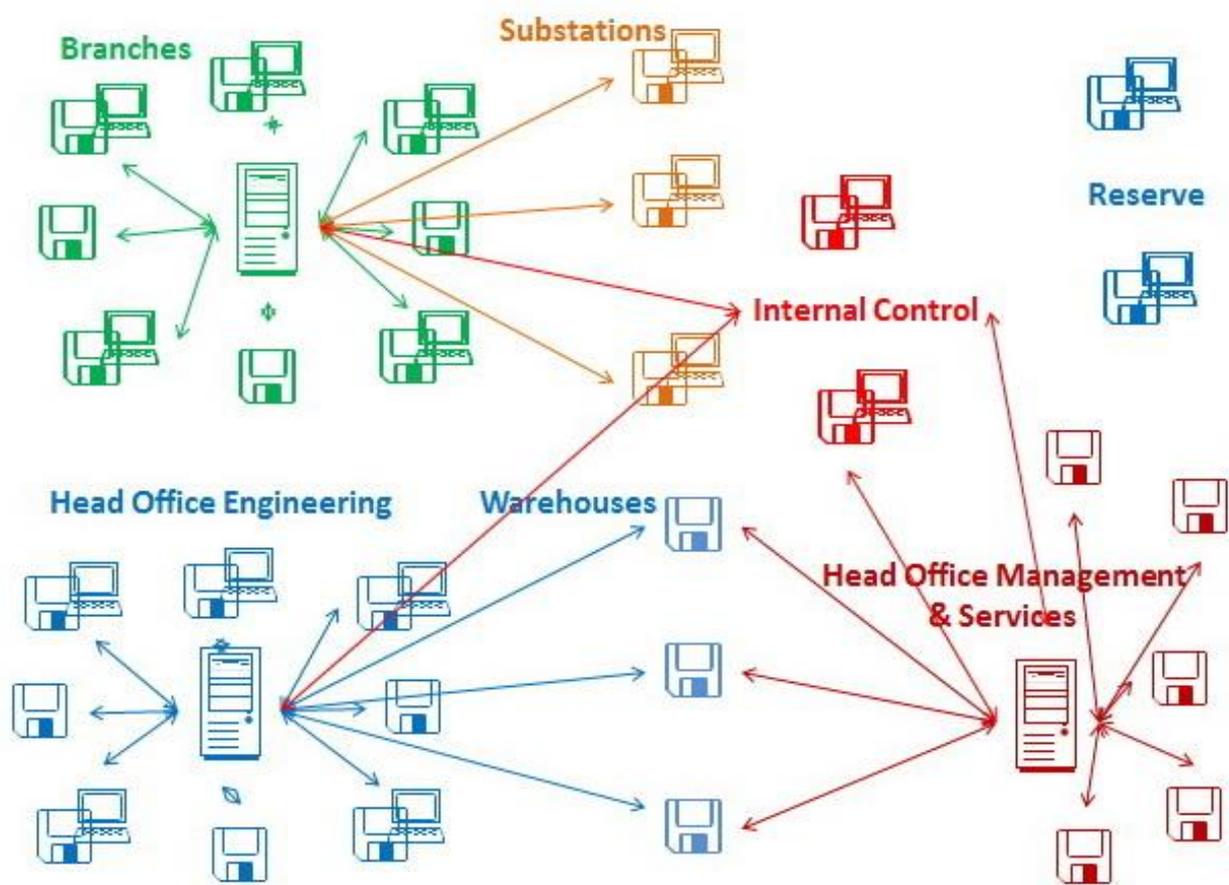
- Branches, 5 + 1, 6 servers
 - 5 general branches
 - Line engineering, 1 user for 1 Portable field computer,
 - Relay protection and automation engineering, 1 user for 1 Portable field computer
 - Transformers engineering, 1 user for 1 Portable field computer
 - Metering engineering, 1 user for 1 Portable field computer
 - Operation engineering, 1 user for 1 Portable field computer
 - Management, 3 users
 - 1 big branch (Kakheti)
 - Line engineering, 2 user for 2 Portable field computers,
 - Relay protection and automation engineering, 2 user for 2 Portable field computers
 - Transformers engineering, 2 user for 2 Portable field computers
 - Metering engineering, 2 user for 2 Portable field computers
 - Operation engineering, 2 user for 2 Portable field computers
 - Management, 3 users
- Field offices (substations), 18
 - Engineering, 2 user for 2 Portable field computers

Head Office Management and Services:

- Engineering Services, 1 server
 - Line engineering, 2 user for 2 Portable field computers,
 - Relay protection and automation engineering, 2 user for 2 Portable field computers
 - Transformers engineering, 2 user for 2 Portable field computers
 - Metering engineering, 6 user for 6 Portable field computers
 - Operation engineering, 2 user for 2 Portable field computers
 - Reserve, 2 user for 2 Portable field computers
- General Management and Services, 1 server:
 - Warehouses, 10 users
 - Accounting, 2 users
 - Internal Control, 2 users, 2 Portable field computers
 - General Management, 13 users

Total hardware requirement: 89 Portable field computers + 8 servers

Total software requirement: 144 users



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