Project Inception Report

Up-gradation and Enhancement of **Power Data Management System**

Department of Hydropower & Power Systems

Submitted by:

Sparkle Technologies

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Introduction

Department of Hydropower & Power Systems intends to undertake the upgradation and enhancement of Power Data Management System to match the current version of the technology platform on which PDMS was built in the year 2017. The upgradation and enhancement exercise will also resolve the issues of security vulnerabilities that may exist in the older version of PDMS.

The enhancement exercise is required to include additional reports to meet the current demand.

Inception Report

This report is built upon the enhancement requirement proposal submitted on 29th December, 2020, based on which the project was awarded to M/S Sparkle Technologies. The project's inception phase started immediately after signing of the contract document and award of the PDMS upgradation and enhancement project to Sparkle Technologies.

It involved a range of activities including formation of the project development team, preliminary assessments, outreach activities, brain storming session with DHPS project team, project kick off meeting and detailed project planning over the period of one week.

The project implementation plan aims at making tangible outputs towards achieving the project objectives.

Sparkle Technologies will seek to actively involve DHPS project team as a valuable resource during the enhancement and upgradation activities. The activities within the project development life cycle will include assessment, designing, development, user training, User Acceptance Testing (UAT) and implementation.

Scope of Work:

The PDMS system enhancement scope has been expanded through 4 main stages:

- ✓ Upgradation of PDMS technology platform
- ✓ Enhancement of PDMS
- ✓ Upgradation of PDMS app technology platform
 - Java version 8
 - Spring Framework
- ✓ Support and Maintenance Stage

General Scope

Upgradation of technology platform from java 6 to java 8 with bootstrap4

Upgradation of java framework from Struts1 to Spring

upgradation

Redevelopment and configuration of PDMS to suit java version 8

Upgradation of database from MySQL version 6 to version 8

Installation and hosting of PDMS

One-year free warranty support

Project Deliverables:

Sparkle Technologies will deliver the following deliverables to DHPS during different phase of the project development life cycle:

- 1. Inception Report
- 2. PDMS & Mobile App Source Code
- 3. PDMS Database Script

Project Team structure

The structure of the Project Team and their Roles & Responsibilities are also defined in the Project Inception phase. The organization structure of the PDMS project will have the following roles:

- ✓ Project Manager
- ✓ Project Architect / Designer
- √ Team Leader
- ✓ Team Member
- ✓ Technical Writer

Some of these roles may be either combined or sub-divided. The Project Manager will designate a Team Lead, DBA, Development Team and a Project Architect/Designer for the successful implementation of the project.

Organization and Staffing

SI No	Role	Role Description						
1	Project Manager (System Analyst)	Project Manager will be the single point of contact for all technical aspects of the project. Primary responsibility would be to ensure: Project planning Appropriate induction of team members and allocation of tasks Prepare Software Requirement Specification (SRS) Documentation of client requirements and translate them into design specifications. Preparing Time and work estimate for the project. Plan the project meticulously and communicate the number of working hours for the project according to the resources and the technology available. Validate and freeze SRS with client Work along with the deployment team Carry out acceptance testing and production deployment of the system Understand functional requirements Answer and/or coordinate all queries and concerns Do requirement gathering, work on design documents, help prepare test plan and cases, deployment of application/Interface(s) into production Coordination with other technical and business groups within DHPS project team whenever required Provide weekly status reports Obtain all acceptance from DHPS team for all deliverables Prepare plans and schedules for the assignment Allocate work to team members, monitor and execute the project Ensure prompt delivery of project deliverables as per schedule						
		✓ Monitor and execute the project						
2	Developer(s)	 ✓ Design, Develop and test the application / Interfaces ✓ Support in all testing phases and deployment of the application / Interface into production ✓ Develop the application(s)/Interface(s), unit test and support all testing phases and deployment of the application/Interface into production ✓ Train the users/client on the developed application 						
3	DBA	✓ Design and development database✓ Data migration						

Work Schedule and planning for deliverables

SI No	PROPOSED PROJECT SCHEDULE		Weeks										
		1	2	3	4	5	6	7	8	9	10	11	12
1	Requirement Gathering and analysis												
2	Clarification on ToR												
3	Inception report												
4	Upgradation and Enhancement of PDMS												
5	Deployment and Testing of PDMS												
6	Upgradation of PDMS mobile APP												
7	Deployment and Testing of Mobile APP												
8	User Acceptance Testing												
9	UAT Sign off												
10	System Handover												
	Total Duration	12 weeks (3 months)											

Project Timeline

