**SERIS**

Solar Energy Research Institute Singapore



Cloud Based Realtime Analytical Monitoring of Photovoltaic Systems and Weather Parameters Project

Quality Plan

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| --- | --- |
| Filing Reference | SE25PT7SERIS/SERIS/TECH/TEST/UAT/UAT.doc |
| Document Title | User Acceptance Test |
| Version | draft |
| Prepared by | Nay Lin Aung |
| Date Created | 25/07/2018 |

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| --- | --- | --- |
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**Document Reference** : SE25PT7SERIS/SERIS/TECH/TEST/UAT/UAT.doc

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Author** | **Description** |
| Draft | 25/07/2018 | Nay Lin Aung | Initial version |
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| **For Internal use** | | **Date** | **Department** |
| Authorized By | Kaung Myat Bo | 20/03/2018 | Project Management Dept |
| Released By | Nay Lin Aung | 22/07/2018 | QA Dept |

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Management summary

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| --- | --- | --- | --- |
| **Project objective**  <…> | | | |
| **Test objective and assignment**  <…> | | | |
| **Short description of the test approach**  <…> | | | |
| **Results to be realized** | | | |
| *Result*   * < example: well executed and finished system­ test> | *Document*   * ST Test report | *Delivery date* <mm-dd-yyyy> |
| **Qualitative objectives**  <example: Each test level needs to be finished on time and meet the acceptance criteria> | | | |
| **Go/no-go decisions**  < Example: After each test level the test manager makes sure that a test report is drawn up. This report will, after reviewing with the project manager, be presented to the key stakeholders, who decide if it is possible to move to the next test level.  At the end of the total test project an end testing report will be drawn up, containing a risk based assessment of the test object. Based on this end report the key stakeholders make the final decision to go to production or not. > | | | |
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1. **INTRODUCTION**

SERIS requires the development of cloud-based real-tiime monitoring system for photovoltaic and weather parameters .This will involve implementation of cloud-based backend server system and front-end web application.This system will be deployed in AWS Cloud. Users will be able to view, analyze, supervise and control different systems ranging from small rooftop systems to large ground-based PV power plants across different time zones.

**SE25PT7 team** will be taking care of implementation for cloud-based back-end application and front-end web applications.

This document is the project quality plan of SE25PT7 for development of back-end application and front-end web application system.Thefollowing sections describe the plan in terms of its purpose, audience, organisation and related documents.

* 1. Purpose

This document defines the following:

team organisation;

deliverables and sign off procedures;

planning and control procedures;

standard methods and tools;and

ensure the delivery of system of high quality

* 1. Assignment

1. **DOCUMENTATION**
   1. **Basis for the Test Plan**
   2. **Test Basis**
2. **TEST STRATEGY**
   1. **Test Strategy**
3. **APPROACH**
   1. **Test Design Table**
   2. **Description Test Approach**
4. **INFRASTRUCTURE**
   1. **Test Management**
   2. **Office Setup**
5. **MANAGEMENT**
   1. **Test Managment**
   2. **Defect Procedure**
6. **ESTIMATION & PLANNING**
   1. **Estimation**
   2. **Planning**

**APPENDIX 1: PRODUCT RISK ANALYSIS**