## Test Strategy for TRP Website

**Objective**

The objective is to test the end-to-end functionality, usability and performance of the TRP website and ensure it meets the business and technical requirements.

### Scope

#### In scope:

- All customer workflows - search, browse, add to enquiry, estimation ,Bulk Purchase Order.

- Account registration and management.

- Purchase order management and tracking.

- Admin module and workflows.

- Web and mobile site Responsive.

- Physical fulfillment of orders.

- 3rd party vendor selection.

### Focus Areas

- Functional correctness of flows

- UI/navigation

- Performance

- load, stress and scalability

- Security - vulnerabilities, encryption

- Compatibility

- browsers, devices, OS

- Usability - ease of use, accessibility

### Approach

- Black box and white box testing techniques

- Manual test cases using Excel files.

- Exploratory testing for key workflows

- Load testing with JMeter for at least 1000 concurrent users - Security testing for OWASP Top 10 vulnerabilities.

- Cross browser compatibility testing on IE, Chrome, Firefox - Ease of use evaluation with at least 10 end users.

### Deliverables

- Functional test cases and reports

- Performance test scripts and results - Security vulnerabilities report

- User acceptance testing report

- Test coverage and defect reports

- Automation regression suite

### Team & Schedule Testing

* team of 1 members needed for 1 months testing effort Proposed schedule:

- July 1,2 week : Functional and security testing

- July 2 week : Load/performance testing

- July 3 week : Compatibility testing, UAT

- July 4 week : Regression testing

### Entry & Exit Criteria User stories

* to be tested must meet the defined 'Ready for Testing' criteria.
* Testing completes when all test cases execute with no critical defects outstanding.

### Risks

Delay in test environment availability

- Lack of access to API.

- Complex workflows may require more time and resources