PROJECT PROPOSAL

FOR

Rate Contract Portal for PHE

Prepared By

MPCON Ltd

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# Project Objective

Following are the objectives of the proposed project-

# Project Scope

The project will cover development of the various modules of the application for both PHE Department and their suppliers. It will cover end to end rate contract procurement of PHE. It will cover following users-

Department – PHE officers

Supplier – PHE Vendors

Inspection – Inspection Agency

Consignee -

After the project, This will be an independent module which will work as a standalone application for handling Rate contract/work allotment/work tracking process of PHE.

# Existing System

## Stakeholders

|  |  |  |
| --- | --- | --- |
| S.No. | Role | Responsibilities |
| 1 |  |  |
| 2 |  |  |
| 3. |  |  |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 4. |  |  |

## Problems with existing system

# Proposed system

## Functional Modules

Following will be the various modules in the proposed system-

1. **Departmental User** :-

• Login with valid credential.

• Choose the updated Item list with rates in which they want to create orders.

• Select the sub- items from the main item

• Select consignee, inspection agency, supplier and enter quantity, delivery days on the same page.

• Created order must be digitally signed by authorized signatory.

• Post digitally signed, order copy in form of PDF must be generated.

• Order copy must be send by Mail to selected inspection unit and supplier.

Existing master database if existed will be migrated and reused. These interfaces will be common for all user login.

1. **Supplier login**:-

• Login with valid credential.

• User can view orders detail only.

• Assign date of inspection to the inspection agency.

• If material got rejected, supplier can assign next date to inspection agency.

1. **Inspection login** :-

• Login with valid credential.

• Upload inspection report against orders they received.

• If material is not approved as per parameter, Inspector can reject order quantity fully/partially.

1. **Consignee Login** :-

• Login with valid credential.

• User can view orders detail only.

• Upload delivery report against material received as per the order quantity.

• Enter payment details against each supply order.

1. **Monitoring Reports** – Following reports will be provided for monitoring purpose-

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Report Name** | **Report Level** | **User Type** |
| **1** |  |  |  |
| **2** |  |  |  |
| **3** |  |  |  |
| **4** |  |  |  |
| **5** |  |  |  |
| **6** |  |  |  |
| **7** |  |  |  |
| **8** |  |  |  |

## Users and roles

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Role** | **Responsibilities** |
| **1** | ECIL | 1. Enter and create boxes. 2. Enter and create BU/CU 3. Maintain boxes and machines till dispatch is done 4. Assign and dispatch boxes to districts |
| **2** | Commission | 1. Create box/BU/CU 2. Edit/Retire/Delete Box/BU/CU 3. Progress monitoring of FLC/randomization/closure |
| **3.** | District DEO | 1. Receive box 2. Maintain box/BU/CU assigned to them 3. Perform FLC before election 4. Perform DEO level randomization 5. Perform assignment closure after election 6. District progress monitoring |
| **4.** | RO | 1. Perform RO level randomization 2. RO level progress monitoring 3. Replace EVM |

## User interfaces

Following are the proposed user interfaces-

## Advantages of the proposed system

# Project Activities

## Action Items

Following are various activities which will be planned for the development and deployment of the proposed system-

1. Finalization of the requirements, user interfaces, reports, test cases etc.
2. Application and database solution design
3. Coding of various modules
4. Unit and integration testing
5. User training
6. User acceptance testing
7. Security audit
8. Deployment and go live
9. Training to suppliers.
10. Handing over to PHE for operations
11. Operations and maintenance support

## Estimation for development

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.**  **No.** | **Module** | | **Task** | | | **Estimated Time (In man-days)** | **Output** |
| **1** | Requirement Verification | | Requirement finalization | gathering | and | 1 | Functional requirement document |
| **2** |  | | Database design | | | 1 | Data model |
| **3** |  | | UI design | | | 1 | Screen designs |
| **4** |  | | Coding | | | 3 | Source code |
| **5** |  | | Unit testing | | | 1 | Test Cases |
| **6** | EVM FLC | | Requirement finalization | gathering | and | 1 | Functional requirement document |
| **7** |  | | Database design | | | 0.5 | Data model |
| **8** |  | | UI design | | | 0.5 | Screen designs |
| **9** |  | | Coding | | | 1 | Source code |
| **10** |  | | Unit Testing | | | 1 | Test Cases |
| **11** | EVM  Randomization DEO Level | – | Requirement finalization | gathering | and | 2 | Functional requirement document |
| **12** |  | | Database design | | | 4 | Data model |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **13** |  | UI design | | | 2 | Screen designs | |
| **14** |  | Coding | | | 16 | Algorithm Source code | and |
| **15** |  | Unit Testing | | | 4 | Test Cases | |
| **16** | EVM  Randomization – RO Level | Requirement finalization | gathering | and | 2 | Functional requirement document | |
| **17** |  | Database design | | | 4 | Data model | |
| **18** |  | UI design | | | 2 | Screen designs | |
| **19** |  | Coding | | | 20 | Algorithm Source code | and |
| **20** |  | Unit Testing | | | 5 | Test Cases | |
| **21** | EVM Replacement | Requirement finalization | gathering | and | 0.5 | Functional requirement document | |
| **22** |  | Database design | | | 1 | Data model | |
| **23** |  | UI design | | | 1 | Screen designs | |
| **24** |  | Coding | | | 6 | Source code | |
| **25** |  | Unit Testing | | | 1 | Test Cases | |
| **26** | EVM Assignment Closure | Requirement finalization | gathering | and | 0.5 | Functional requirement document | |
| **27** |  | Database design | | | 0 | Data model | |
| **28** |  | UI design | | | 1 | Screen designs | |
| **29** |  | Coding | | | 2 | Source code | |
| **30** |  | Unit Testing | | | 0.5 | Test Cases | |
| **31** | Monitoring Reports | Requirement finalization | gathering | and | 3 | Functional requirement | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | |  | document | |
| **32** |  | Database design | | 0 | Data model | |
| **33** |  | UI design | | 7 | Screen designs | |
| **34** |  | Coding | | 15 | Source code | |
| **35** |  | Unit Testing | | 5 | Test Cases | |
| **36** | EVM Stock Register | Requirement gathering finalization | and | 1 | Functional requirement document | |
| **37** |  | Database design | | 0 | Data model | |
| **38** |  | UI design | | 4 | Screen designs | |
| **39** |  | Coding | | 10 | Source code | |
| **40** |  | Unit Testing | | 3 | Test Cases | |
| **41** | Integration | Integration | | 1 | Integrated Code  Consolidated technical design document | |
| **42** |  | Integration testing | | 2 | Final product | tested |
| **43** |  | User training to EVM section | |  |  | |
| **44** |  | User acceptance testing EVM Section | by | 10 | Final product | tested |
| **45** | Documentation | User manual preparation | | 5 | User manual | |
|  | **Total** | | | **151.5** |  | |

It should be noted that the estimated time only include time required for development activities. After development.

It should also be noted that the estimation provided above is based on the high level understanding of the requirement and the prototype work done so far. It may vary as more clarity emerges during the development.

## Development methodology

Iterative model of the development will be followed. Development will be done module wise and for each module following activities will be done-

1. Requirement analysis
2. Database design
3. UI design
4. Coding
5. Testing
6. Integration

Each module will be integrated with the main application after its development. So final integrated product will be ready after development of the final module.

## Deployment and operations

Following activities will be required after the development is over-

1. Security audit
2. Deployment to SDC production server
3. Go live
4. Handing over to EVM section for operations. Technical issues will be taken care by IT section.
5. Handholding support to EVM section