



# Karnataka State Highways Improvement Project

## Backend Project Management System

### USER MANUAL

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## **1 INTRODUCTION**

### **1.1 PREFACE**

This document outlines Backend Bangalore Private Limited Implementation Plan towards successful rollout of Backend Project Management System (PMS).

### **1.2 ABOUT BACKEND PROJECT MANAGEMENT SYSTEM (PMS).**

Backend Project Management System or PMS is a fully integrated centralized web-based enterprise level software solution for infrastructure project management comprising of monitoring daily activities system, mobilising and demobilising staff and equipment management system, planning management system, subcontractor management system, contract administration system, store management system, equipment maintenance system, tools and report generation. PMS helps to manage various infrastructure project resources by integrating all business management functions. PMS helps to integrate all departments and functions across a project into a single web based system that can serve different departments' particular needs thereby helping various departments to easily share information and communicate with each other.

Backend Project Management System is highly scalable and capable of enabling of the application for multi-location sites user access over the internet and capable of integrating with SMS delivery for enabling timely alerting on critical activities of the project and other legacy applications or new modules that may be needed to develop at a later stage. The application is equipped with a strongly encrypted security engine that has been fully optimized and fine-tuned for maximising performance of the application. The application encompasses a highly intuitive user interface and incorporates state-of-the-art design methodologies.

Project Management System application is developed on latest cutting edge technology covering all the functionalities and is capable of integration with Primavera, email exchange server. The application provides a comprehensive set of MIS Reports and graphs both at project level and project portfolio level.

Project Management System modules can also be developed on smart mobiles through Android application.

### 1.3 KEY FUNCTIONALITIES

Backend Project Management System covers the following key functionality areas of



### 1.4 NEED FOR BACKEND PROJECT MANAGEMENT SYSTEM

The key challenges for any organization in the context of project monitoring are

- Obtaining the timely and accurate project progress data from the site.
- Determining the data capture points, granularity of the data and the frequency at which the data needs to be captured.
- Deploying adequate number of skilled manpower having several years of relevant domain expertise and rich experience in handling on-site operations to obtain project data on a real-time basis.

The solution to these issues depends on the complexity of the project as well as the information needs of the organisation. These challenges are resolved considerably by adopting Backend PMS application which helps in strengthening the supervision team with a comprehensive software tool that aids the best practices in the various business processes of infrastructure Project management.

Backend Project Management System implementation helps in

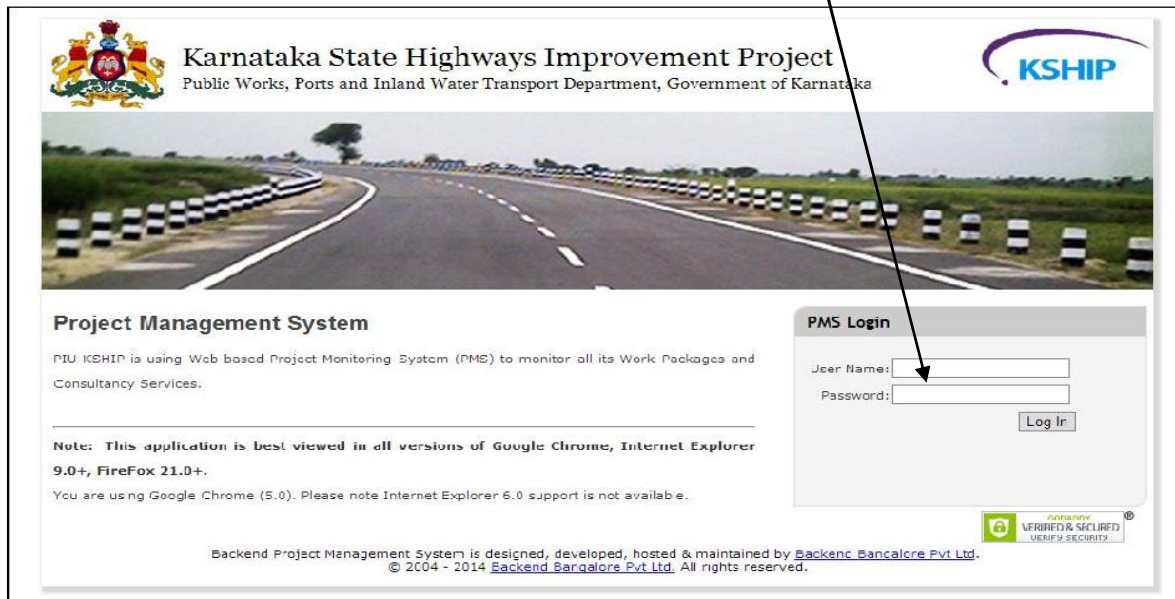
- Streamlining the business processes of infrastructure project management by bringing in efficiency in the operational areas.
- It provides the realistic, measurable and time benchmarked benefits.
- It facilitates for better management of resources, reducing the cost of operations and thus bringing down the processing mistakes.
- It allows for improved planning at functional and process levels.
- It helps for simultaneous activation of the decision centres because of instant triggers or updates.
- It offers for Business operation transparency between business partners cutting down the execution time of critical business operations.
- It provides efficiency and accountability in the entire project life cycle.

## 2 NAVIGATIONAL OVERVIEW

The goal in this session is for the members to learn knowhow to manipulate fields and navigate the screens in PMS.

Enter system URL in the browser.

Enter the username and password to log in the system.



**Karnataka State Highways Improvement Project**  
Public Works, Ports and Inland Water Transport Department, Government of Karnataka

**Project Management System**

PIU KSHIP is using Web based Project Monitoring System (PMS) to monitor all its Work Packages and Consultancy Services.

**Note:** This application is best viewed in all versions of Google Chrome, Internet Explorer 9.0+, FireFox 21.0+.

You are using Google Chrome (5.0). Please note Internet Explorer 6.0 support is not available.

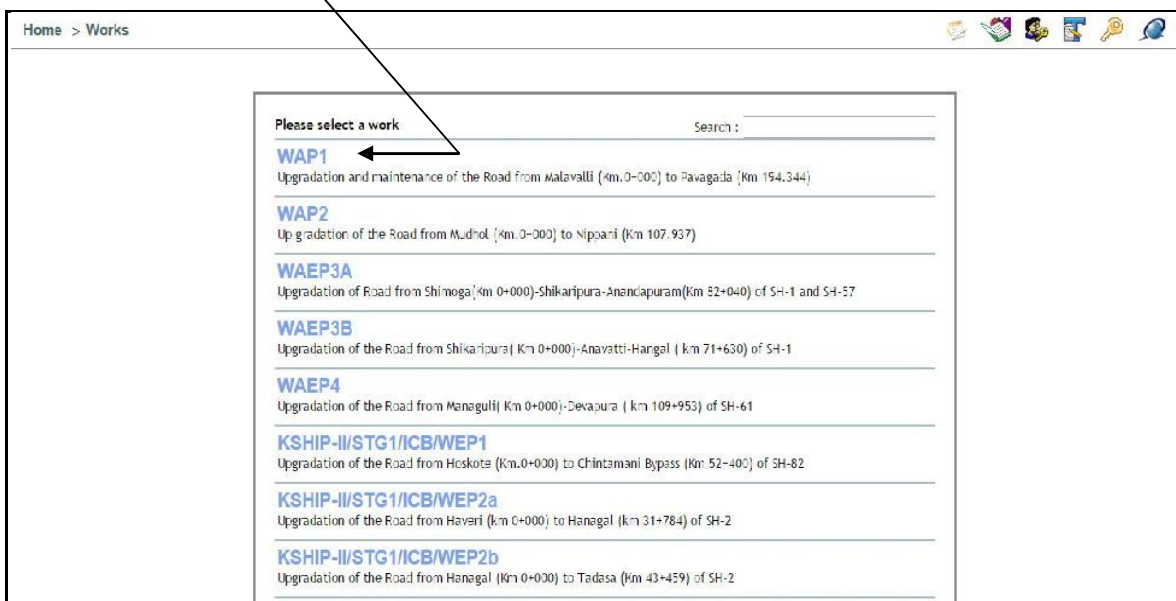
**PMS Login**

User Name:

Password:

Backend Project Management System is designed, developed, hosted & maintained by Backend Bangalore Pvt Ltd.  
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Select any of the projects.



Home > Works

Please select a work

Search :

**WAP1**  
Upgradation and maintenance of the Road from Malavalli (Km.0+000) to Ravagada (Km 154.344)

**WAP2**  
Up gradation of the Road from Mudhol (Km.0+000) to Nipani (Km 107.937)

**WAEP3A**  
Upgradation of Road from Shimoga (Km 0+000)-Shikaripura-Anandapuram(Km 82+040) of SH-1 and SH-57

**WAEP3B**  
Upgradation of the Road from Shikaripura ( Km 0+000)-Anavatti-Hangal ( Km 71+630) of SH-1

**WAEP4**  
Upgradation of the Road from Managuli ( Km 0+000)-Devapura ( Km 109+953) of SH-61

**KSHIP-II/STG1/ICB/WEP1**  
Upgradation of the Road from Hoskote (Km.0+000) to Chintamani Bypass (Km 52+400) of SH-82

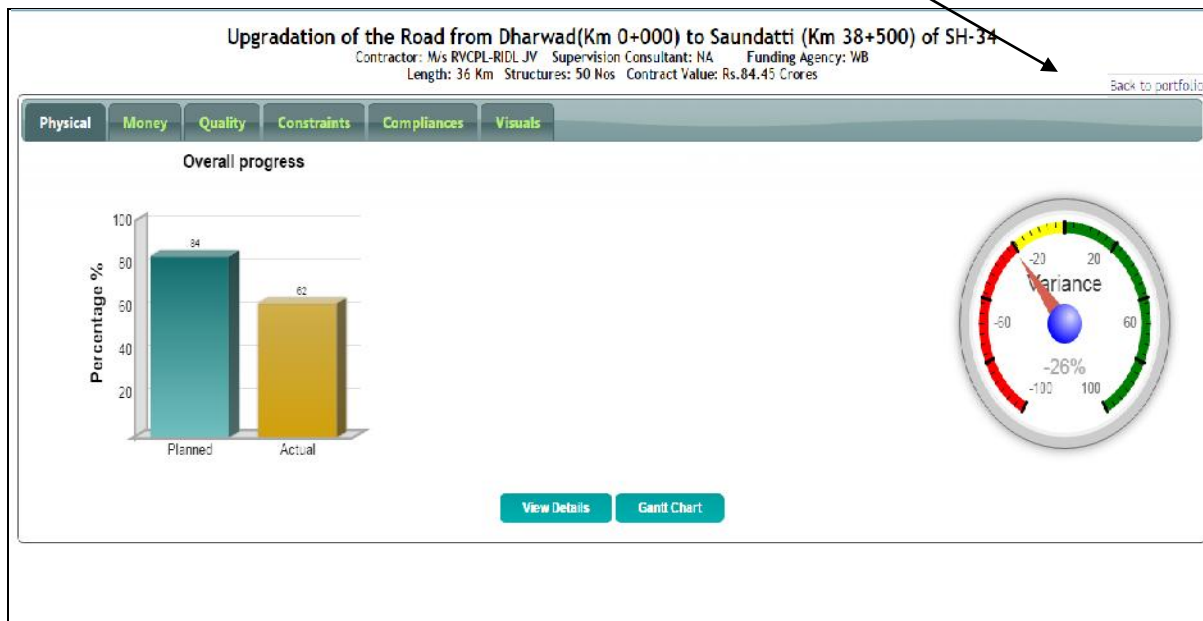
**KSHIP-II/STG1/ICB/WEP2a**  
Upgradation of the Road from Haveri (Km 0+000) to Hanagal (km 31+784) of SH-2

**KSHIP-II/STG1/ICB/WEP2b**  
Upgradation of the Road from Hanagal (Km 0+000) to Tadasa (km 43+459) of SH-2

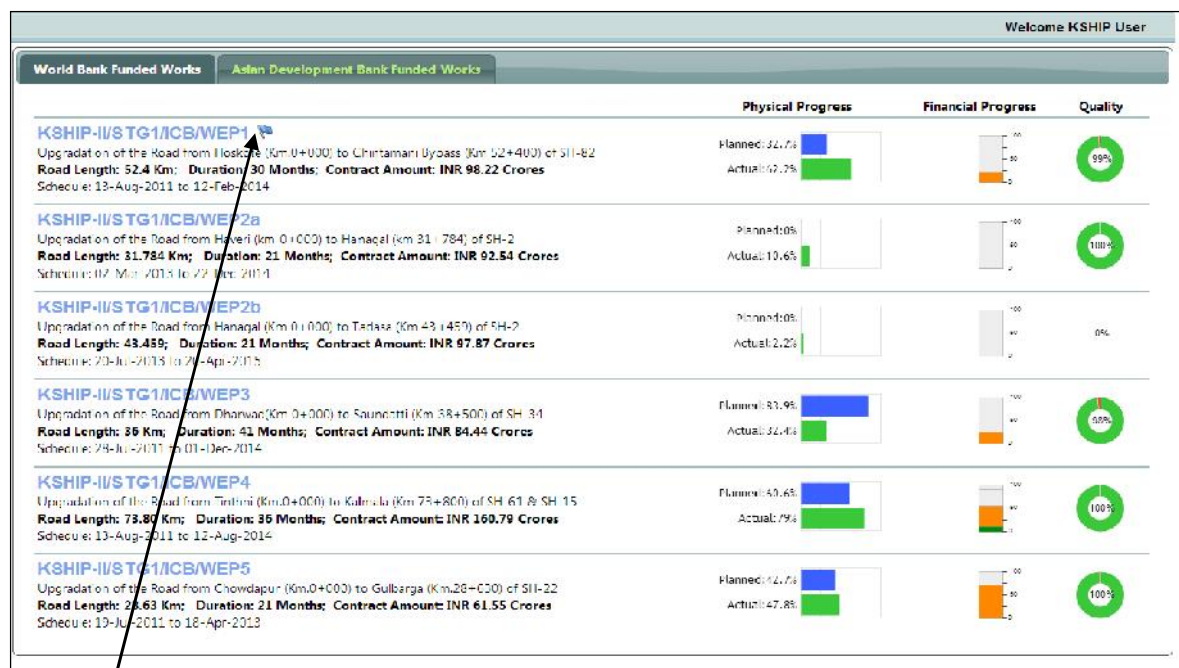
What you can see now is the Dashboard giving details of progress based on different parameters.

Let us first understand different modules that generate this Dashboard.

Click Portfolio on extreme right of this screen.

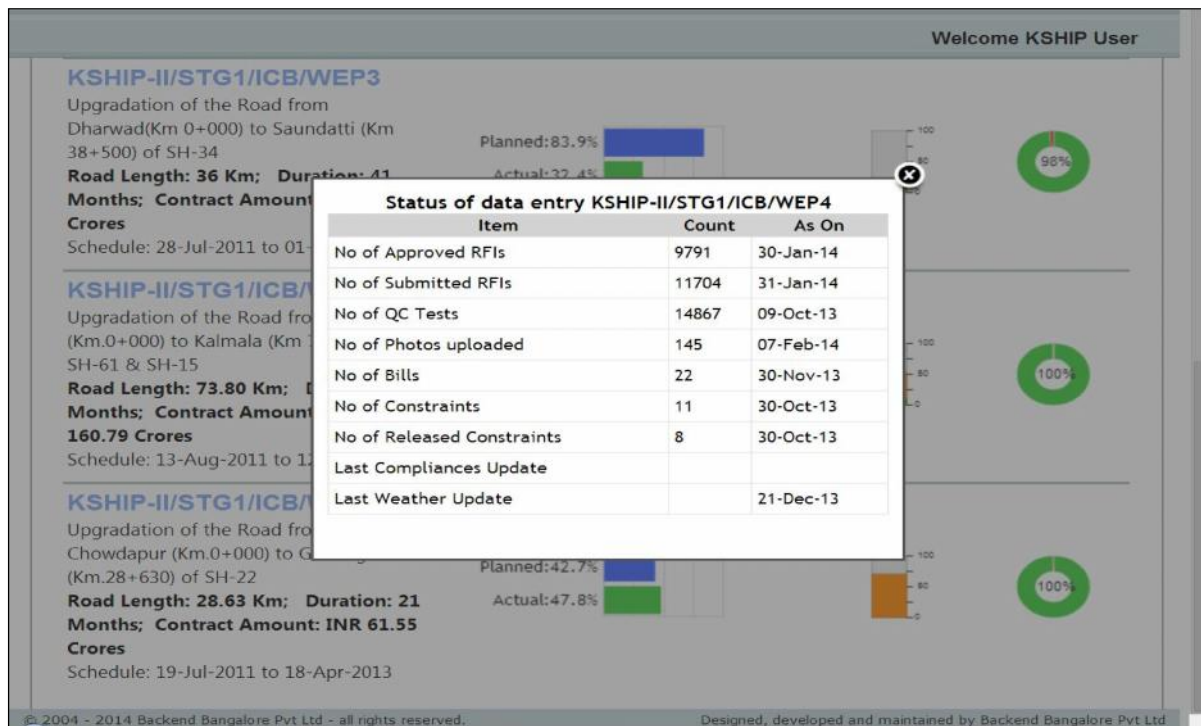


View Package Portfolio

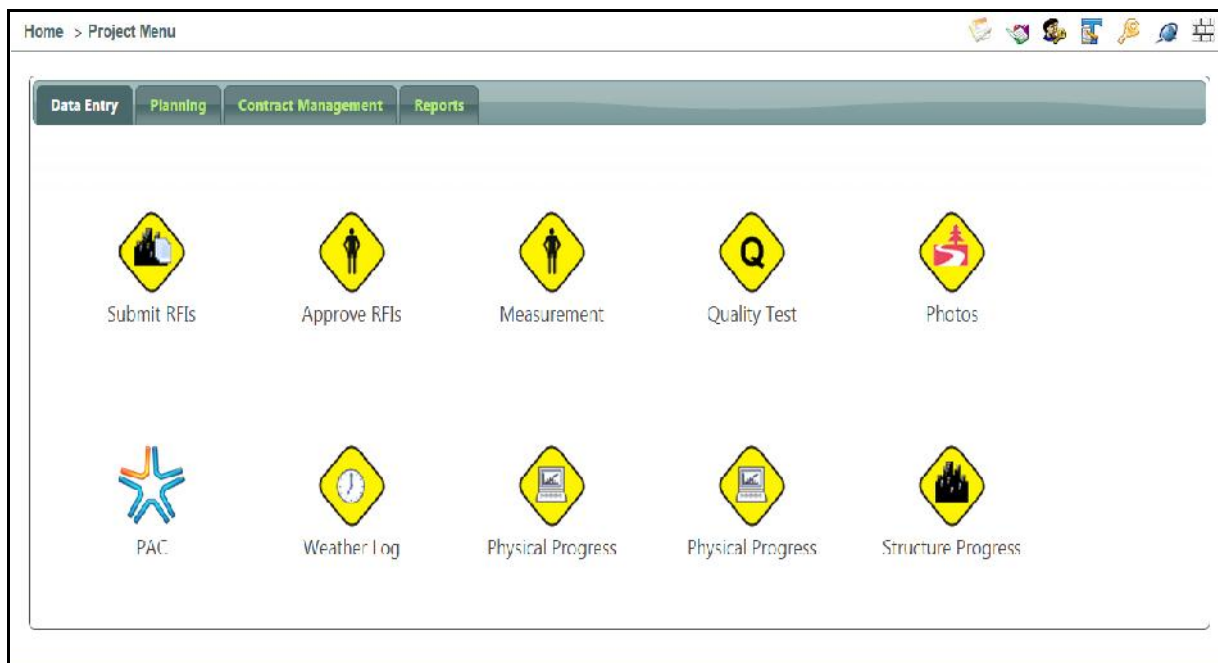


Click to view project Up-To date status



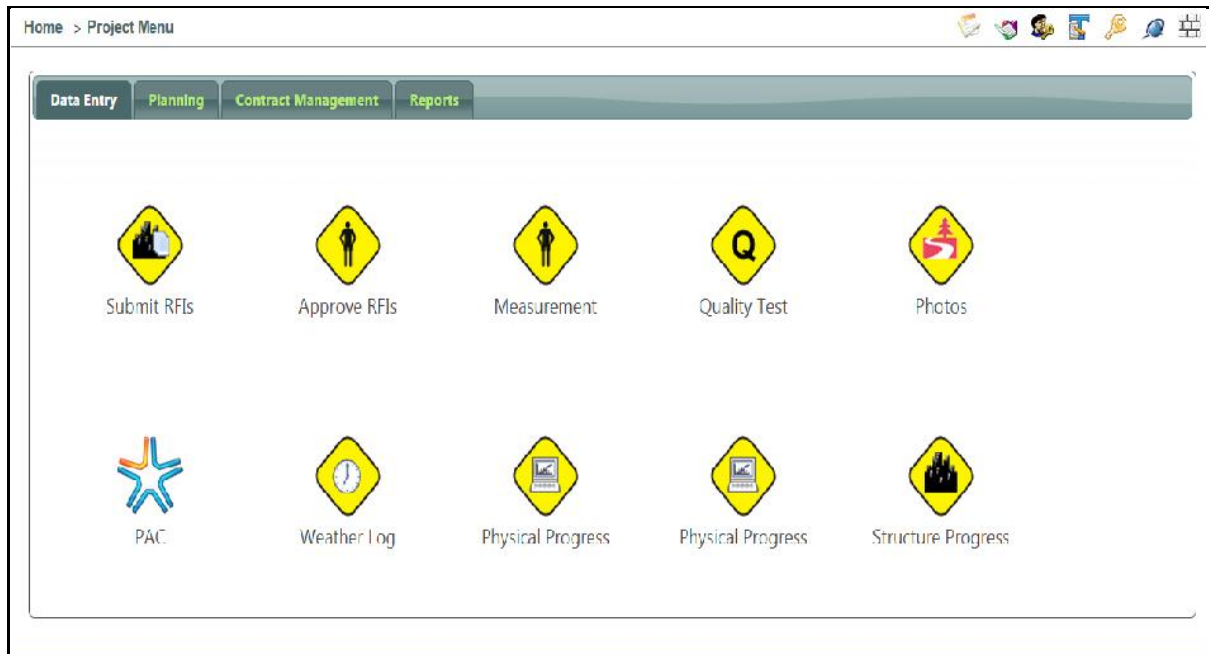


The next screen shows you all modules in PMS.



Let us navigate through these modules.

## 2.1 DATA ENTRY MODULE



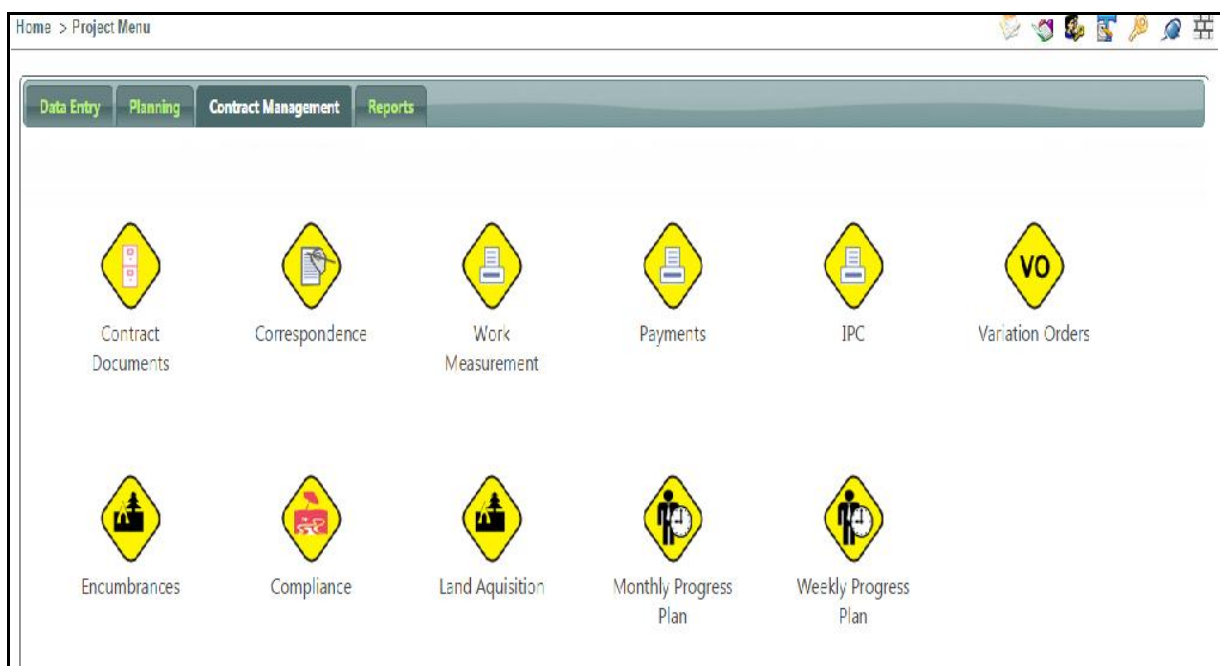
Monitoring module features in entering all the Daily Activities, Quality Control Tests, uploading Project Progress Videos, Approving Daily Entries and Store related Approvals, uploading Progress Photos and status check of Reports.

## 2.2 PLANNING MODULE



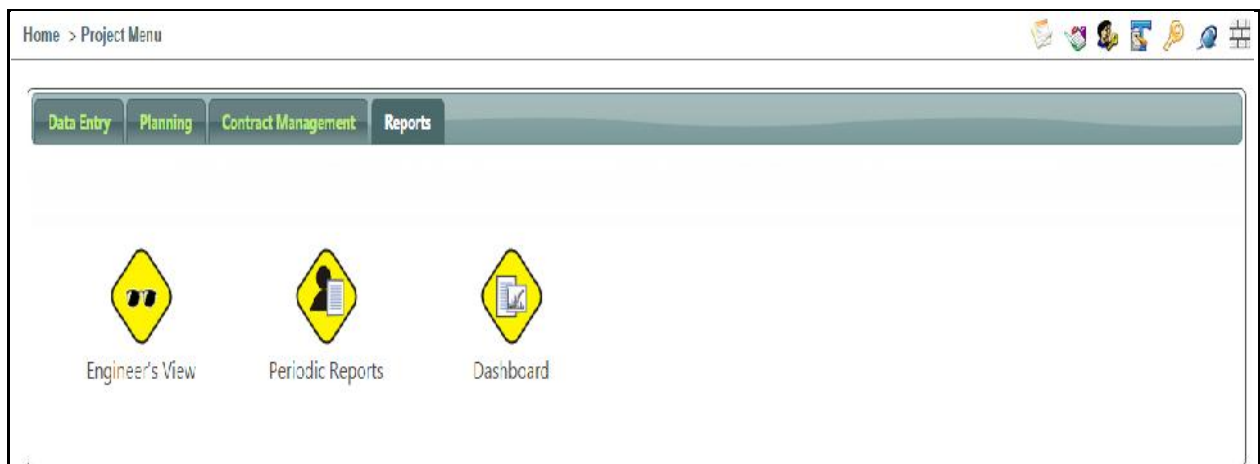
Planning module facilitates in managing Master Tables, Project Activity management, defining Rate Analysis for Project, Project Resource management and managing Project Organization hierarchy.

## 2.3 CONTRACT ADMINISTRATION MODULE



Contract Administration module features in storing of contract documents, claim management, correspondence management, encumbrance or holds management, bill creation, design issue management as in creating new design issues, variation order management, defining compliance as in traffic, environment and safety compliances, processing registered complaints, assigning complaints to different employees, processing registered instructions and assigning instructions to different employees.

## 2.4 REPORTS MODULE

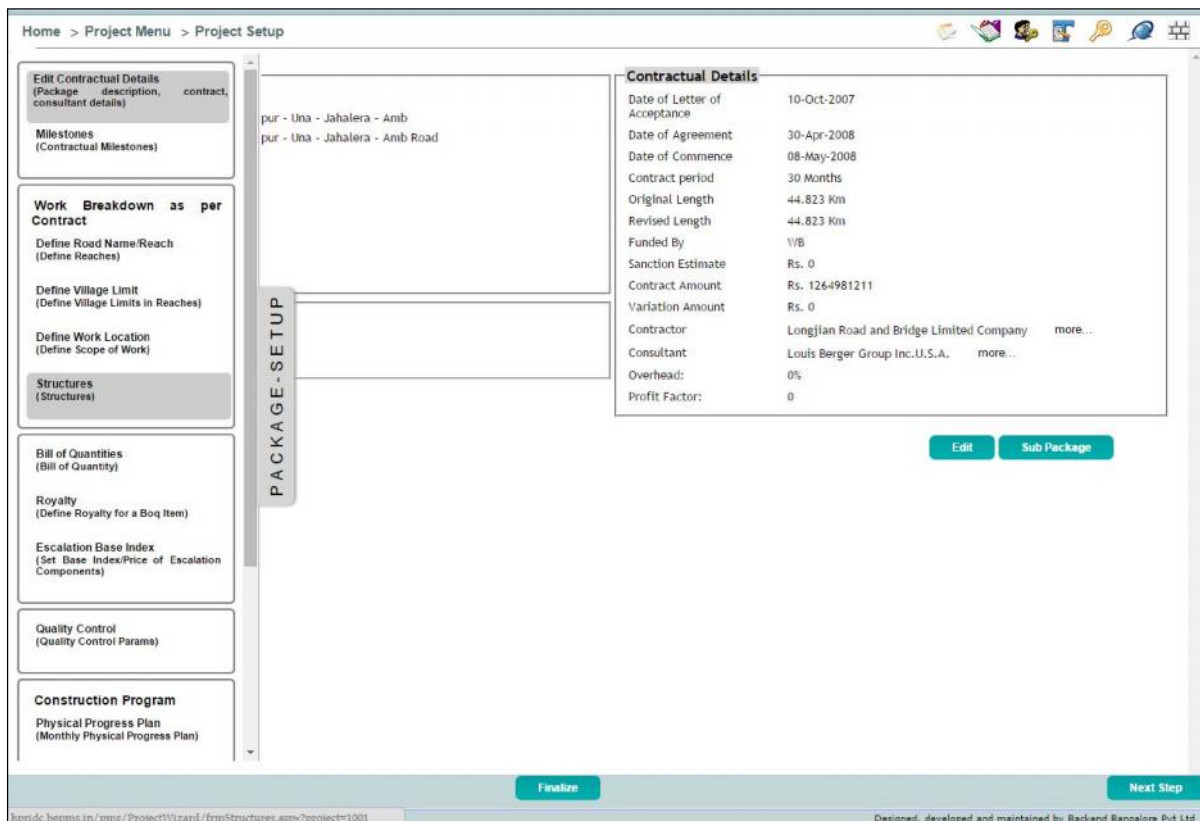


Reports module features in generation and viewing engineer's views and engineer's reports.

### 3 FUNCTIONAL OVERVIEW

In these sessions, the core team is split into groups representing their respective functional departments. Each sub-group is trained on the specific system modules that relate to their department. All identified end users will be trained in the specific functions they are required to work.

#### 3.1 PACKAGE SETUP MODULE



Package Setup module facilitates towards planning the activities of the project like editing project details, BOQ management, defining BOQ, milestone management, area codes management, group codes management, job codes management, defining group codes (work breakdown structure codes), road design management, chainage management, grouping chainages to milestones, grouping chainages to area codes, planning chainage quantities, structures management, group code(work breakdown structure) scheduling, job code scheduling, Project Organization Hierarchy management.

- **Contractual Details**

Contractual details like package description, total length of the road to be tackled, total cost of the project, Contractor details, consultant details, Agreement date, Starting date, Contract period, Overhead and profit margin can be updated in this module.

- **Milestone**

This module is used to schedule phases in a project. Milestone is started with a start date and end date. The status of milestones can be viewed.

- **Chainages in Milestones**

This module is used to group chainages by milestones.

- **Reaches**

In this module the actual range of the road work can be defined.

- **Village Limits**

In this module, village details which pass the work reach can be defined.

**Work Location**

In this module, the work type carried out like Reconstruction or Strengthening etc. in the work reaches with exact chainages along with the width of the road can be defined.

- **Structures**

This module is used to add Structures with structure name, structure code, chainage details for which the structure is associated with, starting point of the structure, drawing number associated with the structure, type of structure and description. Structures can be imported from excel through downloadable excel template.

- **Manage BOQ**

Bill of Quantity Items can be added, edited or deleted in this module. Sections in BOQ can be listed. Advances paid can be defined. BOQ can be uploaded directly through excel using a excel template.

- **Group Codes**

Group Codes or Work Break down Structure codes is defined with WBS code and description in this module.

- **Job Codes**

Job Codes can be defined in this module. A group of job codes under a section is activated or deactivated. Job Codes can be moved in to any desired group code or work breakdown structure code. Job codes are group to generate stack chart.

- **Group Code Schedule**

In this module Group Code schedule (Work Breakdown Structure) is done. Schedule can be imported from P3 and MSP. Gantt chart of schedule can be viewed.

- **Job Code Schedule**

In this module Job Code Schedule is done. Schedule can be imported from P3 and MSP. Preceding activities are also mapped. Gantt chart of schedule can be viewed.

- **Royalty**

In this module the Royalty rates and factor of each BoQ items can be defined.

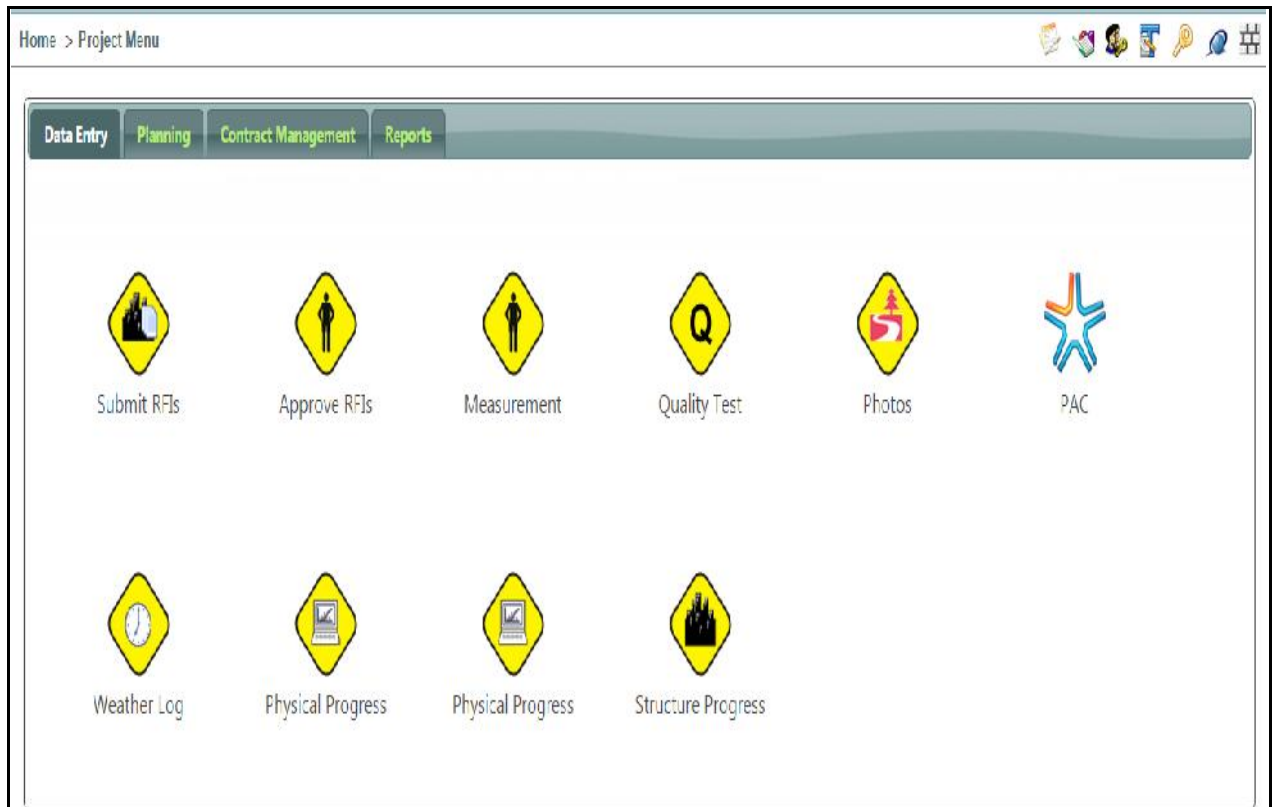
- **Escalation Base Index**

In this module the escalation base index/price of selected items can be defined.

- **Construction Program**

In this module, Monthly physical progress plan, Weekly & Monthly financial progress plan, Monthly Quantity-wise plan can be updated.

### 3.2 MONITORING MODULE



This module features in entering all the Daily Activities as in RFI entries, uploading Project Progress Videos, uploading Progress Photos and Quality Control test details.

#### **Works Progress**

All the Daily activities as in RFI, Quality Control Test, Photos and Weather Log are entered in Daily Entries.

- **Physical**

The physical work progress of the project is monitored through RFI entries. Entered RFI are approved.

- **Financial**

The Financial work progress of the project is monitored through approved billing.



- **Visuals**

Progress Photos of Project are uploaded with Section details, Milestone details, Area Code details, Chainage details; Image Name, Distance, Unit, Place and Date are added and viewed here. Further filtering of Progress Photos can be done using the above parameters.

- **Progress Videos**

Progress Videos of Project are uploaded with Section details, Chainage details; Video Date, Distance and Place are added and viewed.

- **Approvals**

This module features in approvals of All Daily Entries as per assigned user rights.

### **3.3 QUALITY CONTROL MODULE**

This module features in defining the quality test types and entering the number of tests conducted against the number of tests that have passed.

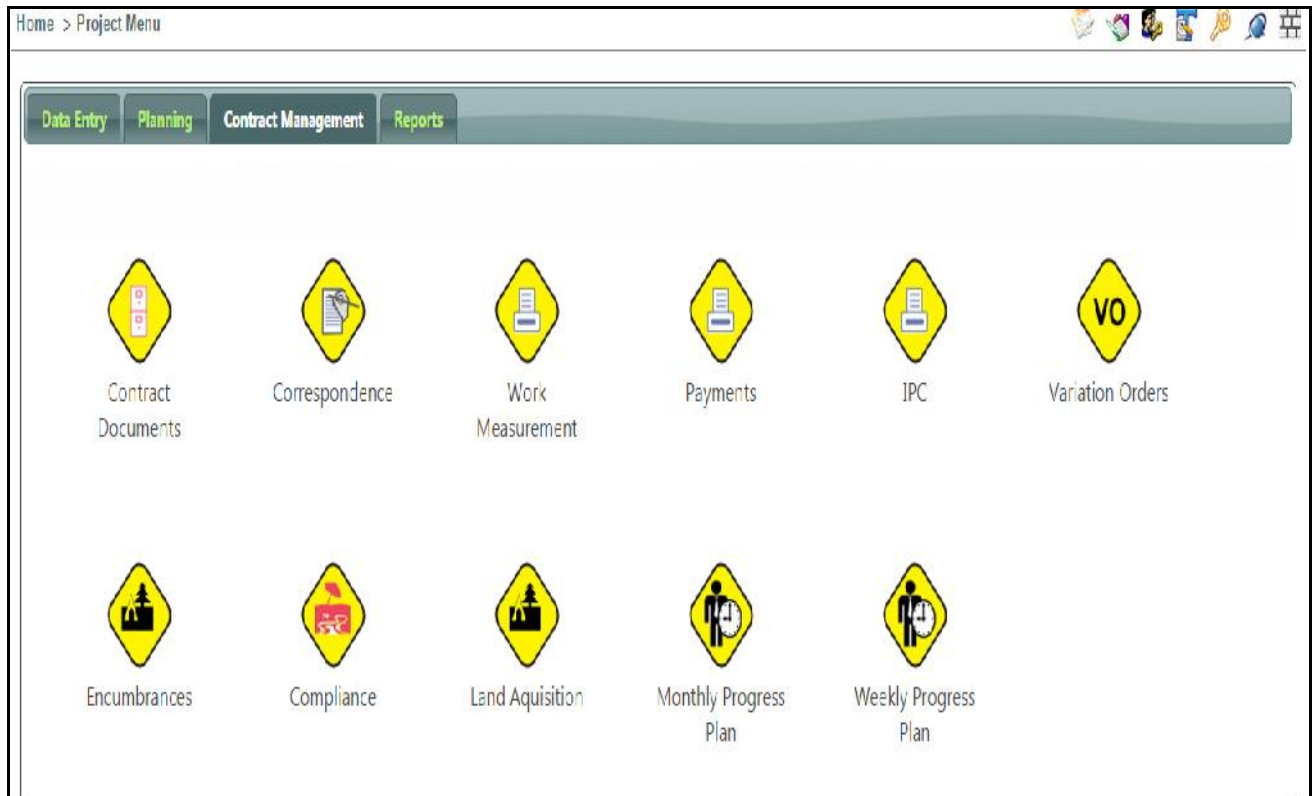
- **Test Types**

In this module the different test types are entered with job name, test frequency, total BOQ quantity for the particular job code. The test name, test standard, minimum number of tests to be conducted is defined for pavement and structures.

- **Test Clearance**

This module allows capturing Quality Control Tests details for Pavements and Structures under various Test Types and Test Names. Test Standard, Frequency of Tests, Total Quantity of Tests, Quantity of Tests done and Quantity of Tests done in Current Month are mapped.

### 3.4 CONTRACT ADMINISTRATION MODULE



This module features in storing of contract documents, claim management, correspondence management, encumbrance or holds management, bill creation, design issue management as in creating new design issues, variation order management, defining compliance as in environment, health and safety compliances.

- **Contract Documents**

This module is used to store contract documents. Documents can be stored in a folder structure and it can be searched using document number, title, description, from date and to date.

- **Work Measurement**

This module is used to generate the IPC bills.

- **IPC**

This module consists a list of all IPC generated.

- **Payments**

This module is used to add the IPC payment details.

- **Variation Orders**

In this module additional quantity can be added or the existing BOQ item can be modified. Correspondence can be added while preparing a variation order. Existing variation orders can be filtered using a date filter option.

- **Correspondences**

In this module incoming and outgoing correspondence are traced. Correspondence can be sent with file attachment to employees. Correspondence can be searched with correspondence number, subject and description.

- **Claims**

In this module the claim for extension of time is prepared if there is a change in the project schedule because of a constraint or if there is additional quantity added to the BOQ. Correspondence can be added while preparing a claim.

- **Compliances**

In this module the traffic, environment and safety compliances with compliances required as per guidelines/specifications, compliances actual provided at site as per specification and ratings are entered. Compliances are filtered using area code and month.

- **Encumbrances**

In this module the constraints list can be viewed. Constraints can be filtered in terms of constraints type, milestone, area code and chainage. New constraints can be added. Constraints with Type, Total Quantum, Total

Released and Remaining Quantum are maintained here. Constraints quantum can be released here and Quantum Release History is maintained.

- **Land Acquisition**

In this module the Land acquisition status along with the chainages and sides of the road can be updated.

### 3.5 REPORTING MODULE



This module features in generation and viewing engineer's reports.

- **Engineers Reports**








In this module the user can generate a list of reports namely:

- **Work Progress reports**
  - RFI Details
  - Progress Details
  - Daily Progress
  - Structure Progress
  - Structure Visuals

- Financial Progress reports
  - List of Bills
- Holds
  - Encumbrance
  - Design Issues
- Compliance Reports
  - Health Safety
  - Environmental
- Quality Control Tests
  - Pavements
  - Structures
- Miscellaneous Reports
  - Bill of Quantity
  - Variation Order
  - Claims
  - Photos
- Weather Details

- **Periodic Reports**

Home > Reports

Physical Progress Reports
Financial Progress Reports
Quality Control Test Reports

### Physical Progress Summary

Monthly Progress Summary BoQ Item wise

Select Month: Oct-2015

Billed

This report summarizes all the RFIs billed

Approved

This report summarizes all the APPROVED RFIs including already billed ones

Finalized

This report summarizes all the RFIs including approved and yet to approve ones

Draft

This report summarizes all the RFIs including draft ones

Quarterly Progress Summary BoQ Item wise

Select Month: Oct-2015

Billed

This report summarizes all the RFIs billed in last 3 months from selected month

Approved

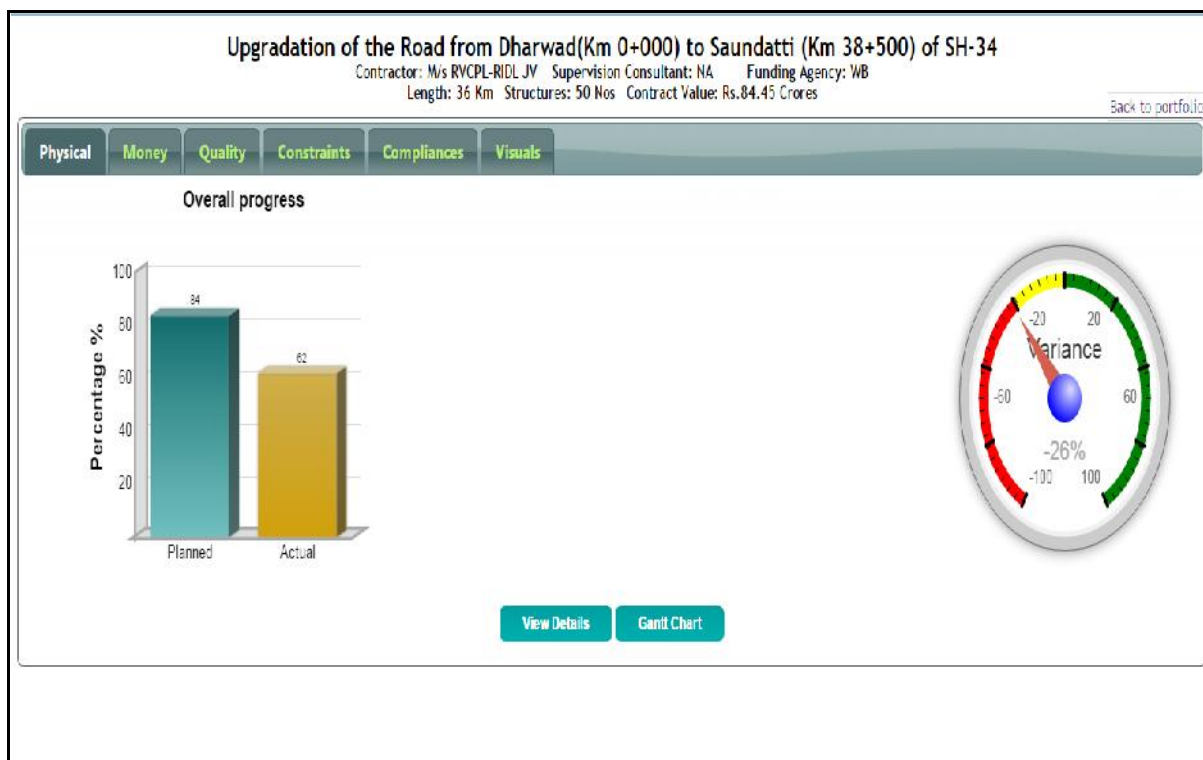
This report summarizes all the APPROVED RFIs including already billed ones in last 3 months from selected month

Finalized

In this module user can generate following reports in excel or pdf format

- Physical Progress Reports
- Financial Progress Reports
- Quality Control Test Reports

### 3.6 DASHBOARD DETAILS



Dashboard summarizes the Project giving a view of Project Physical position (Time), Financial Position (Money), Earned Value Analysis, Budget, Resources, Quality, Constraints, Compliance and Visuals.

- **Time**
  - Overall Project Physical Progress is shown in terms of Planned and Actual Achieved.
  - Milestone Progress is shown in terms of delay forecast in days.
  - Schedule Variance is shown.
  - Strip map and Structure progress visuals are shown.
  - Milestone wise Physical Progress is shown in terms of Actual and Planned

- Area Wise Physical Progress is shown in terms of Actual and Planned
- Major Activity Group Wise Physical Progress is shown in terms of Actual and Planned
- Activity Progress is shown Section Wise, Job Code wise in terms of BOQ Quantity, Planned Quantity and Quantity Done
- Gantt chart can be viewed.
- **Money**
  - Overall Billing Progress is shown in terms of Planned and Actual
  - Cost Variance is shown
  - Milestone wise Financial Progress is shown in terms of Actual and Planned
  - Yearly-wise, Quarterly-wise and Monthly-wise Financial Progress is shown in terms of Actual and Planned
  - Cash Flow details is shown
- **Quality**
  - Overall Quality in terms of Percentage Passed and Failed is shown.
  - Areas wise Quality is shown
  - Total tests Conducted, Passed and Failed is shown
  - Item wise test results is shown
  - Non-conformance analysis can be done
- **Constraints**
  - Total Pending Constraints are shown
  - Constraints are shown with Constraint Type, Total Quantum, Quantum Released and Quantum Pending.
  - Quantum Release History is maintained
- **Compliance**
  - Environment Health and Safety compliance are shown
- **Project Visuals**
  - Project Progress photos are shown

## 4 HANDS ON WORKING ON PMS SYSTEM

In this session the end users shall be trained to feed in actual project data in the system. Backend Project Management System Manual shall be part of this training.

Enter system URL in the browser.

Enter the username and password to log in the system



Note: Before logging into the system, please check whether the browser is up to date or not. If not update the browser than proceed for login.



Select any of the work packages

Home > Works








Please select a work

Search :

WAP1

Upgradation and maintenance of the Road from Malavalli (Km.0+000) to Pavagada (Km 154.344)

WAP2

Up gradation of the Road from Mudhol (Km.0+000) to Nippani (Km 107.937)

WAEP3A

Upgradation of Road from Shimoga (Km 0+000)-Shikaripura-Anandapuram(Km 82+040) of SH-1 and SH-57

WAEP3B

Upgradation of the Road from Shikaripura ( Km 0+000)-Anavatti-Hargal ( Km 71+630) of SH-1

WAEP4

Upgradation of the Road from Managulji (Km 0+000)-Devapura ( Km 109+953) of SH-61

KSHIP-II/STG1/ICB/WEP1

Upgradation of the Road from Hoskote (Km.0+000) to Chintamani Bypass (Km 52+400) of SH-82

KSHIP-II/STG1/ICB/WEP2a

Upgradation of the Road from Haveri (km 0+000) to Hanagal (km 31+784) of SH-2

KSHIP-II/STG1/ICB/WEP2b

Upgradation of the Road from Hanagal (Km 0+000) to Tadasa (km 43+459) of SH-2

Note: Based on the roles, relevant work packages will be listed.

## 4.1 PACKAGE SETUP

Package details like Contractual details, Milestones, Road Name/Reach, Village Limits, Work Location, Structures, BoQ, Royalty, Escalation Base Index, Standard QC Test Names and Types and Construction program

Package Setup Menu Screen

Home > Project Menu > Package Setup

Edit Contractual Details  
(Package description, contract, consultant details)

Milestones  
(Contractual Milestones)

Work Breakdown as per Contract

Define Road Name/Reach  
(Define Reaches)

Define Village Limit  
(Define Village Limits in Reaches)

Define Work Location  
(Define Scope of Work)

Structures  
(Structures)

Bill of Quantities  
(Bill of Quantity)

Royalty  
(Define Royalty for a BoQ Item)

Escalation Base Index  
(Set Base Index/Price of Escalation Components)

Quality Control  
(Quality Control Params)

Construction Program

Physical Progress Plan  
(Milestone wise - Monthly)

Financial Progress Plan  
(Billing Plan)

Structure Progress Plan  
(Milestone wise - Monthly)

Progress Calculation

Progress Weightage  
(Weightage for Work Progress Calculations)

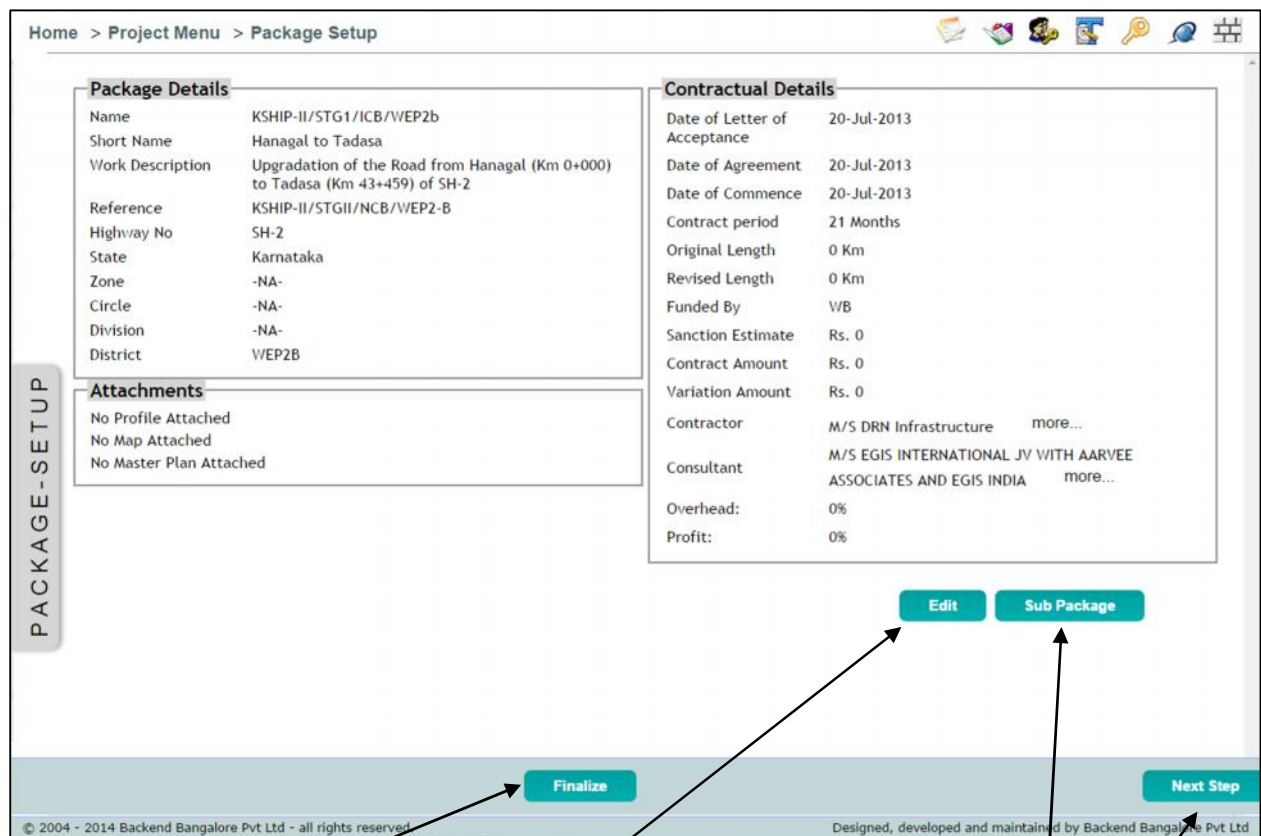
PACKAGE-SETUP

## 4.1.1 Contractual Details

Background: In this module, the contractual details like Package name, description, Length, Highway No, Contract Amount, Contract period, Agreement date, Actual Start date, Contractor details, Consultant details and Sub packages details (if any).

Step by Step Procedure to update Contractual details:

Step 1: Package Setup is available under “Planning” tab under “Project Menu”



Home > Project Menu > Package Setup

**Package Details**

Name	KSHIP-II/STG1/ICB/VEP2b
Short Name	Hanagal to Tadasa
Work Description	Upgradation of the Road from Hanagal (Km 0+000) to Tadasa (Km 43+459) of SH-2
Reference	KSHIP-II/STGII/NCB/VEP2-B
Highway No	SH-2
State	Karnataka
Zone	-NA-
Circle	-NA-
Division	-NA-
District	VEP2B

**Attachments**

- No Profile Attached
- No Map Attached
- No Master Plan Attached

**Contractual Details**

Date of Letter of Acceptance	20-Jul-2013
Date of Agreement	20-Jul-2013
Date of Commence	20-Jul-2013
Contract period	21 Months
Original Length	0 Km
Revised Length	0 Km
Funded By	WB
Sanction Estimate	Rs. 0
Contract Amount	Rs. 0
Variation Amount	Rs. 0
Contractor	M/S DRN Infrastructure more...
Consultant	M/S EGIS INTERNATIONAL JV WITH AARVEE ASSOCIATES AND EGIS INDIA more...
Overhead	0%
Profit	0%

**PACKAGE-SETUP**

**Edit** **Sub Package**

**Finalize** **Next Step**

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Click here to Finalize

Click here to edit


Click here to view/add new Sub Package

Click here to navigate to next step

Step 2: To add New Sub Package (If any)

Click on “Sub Package”

Click here to add New Sub Package



Click here to edit

Click here to delete

Enter the required details and click on “Save” to make a new entry

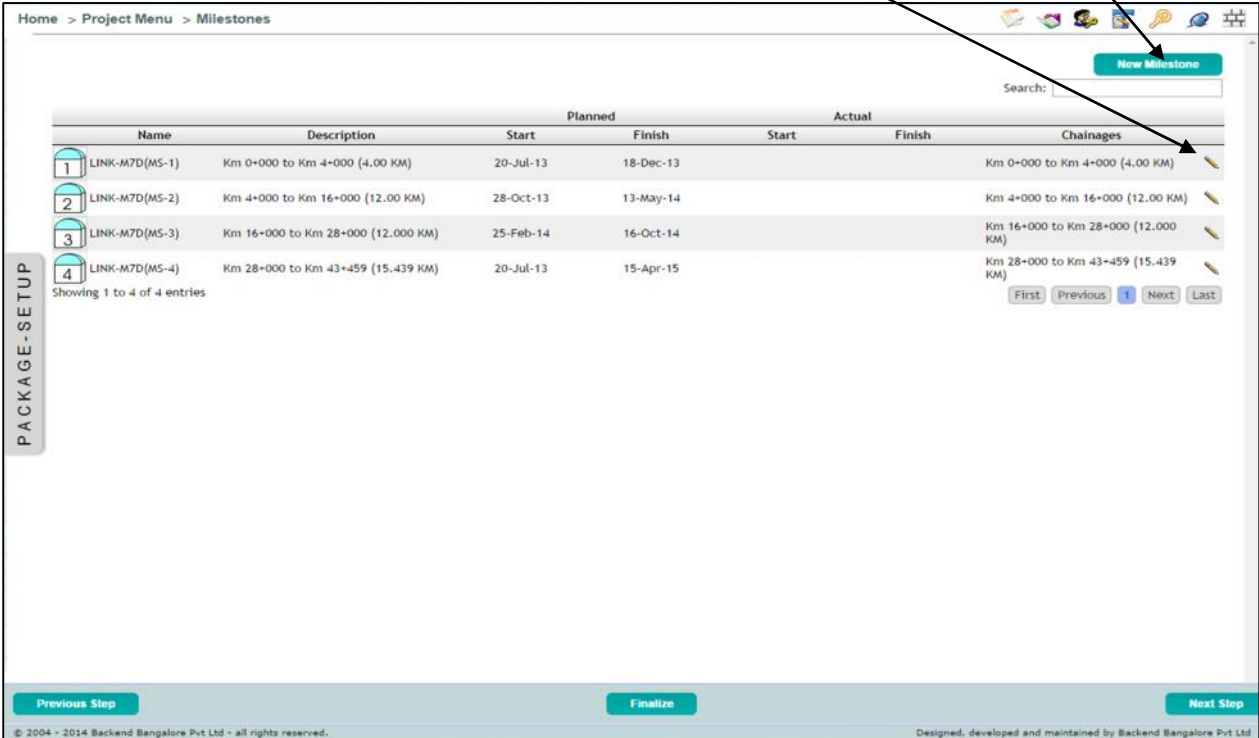


## 4.1.2 Milestones

This module is used to schedule phases in a project. Milestone is started with a start date and end date. The status of milestones can be set.

Click here to add new

Click here to edit



Home > Project Menu > Milestones

Search:

New Milestone

	Name	Description	Planned		Actual		Chainages
			Start	Finish	Start	Finish	
1	LINK-M7D(M5-1)	Km 0+000 to Km 4+000 (4.00 KM)	20-Jul-13	18-Dec-13			Km 0+000 to Km 4+000 (4.00 KM)
2	LINK-M7D(M5-2)	Km 4+000 to Km 16+000 (12.00 KM)	28-Oct-13	13-May-14			Km 4+000 to Km 16+000 (12.00 KM)
3	LINK-M7D(M5-3)	Km 16+000 to Km 28+000 (12.000 KM)	25-Feb-14	16-Oct-14			Km 16+000 to Km 28+000 (12.000 KM)
4	LINK-M7D(M5-4)	Km 28+000 to Km 43+459 (15.439 KM)	20-Jul-13	15-Apr-15			Km 28+000 to Km 43+459 (15.439 KM)

Showing 1 to 4 of 4 entries

First Previous 1 Next Last

PACKAGE-SETUP

Previous Step Finalize Next Step

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## Adding new Milestone screen

Add milestone details as shown in the below screen. Click on New Chainage to add the work chainages under the defined Milestone.

New Milestone

Name:

Description:

Planned Start:

Finish:

Actual Start:

Finish:

Status:

Not Started

New Chainage

Chainages

		Chainages (Kms)			
Code	Description	From	To	Road	
No Chainages					
Code:	Description:	From:	To:	Road:	M7D

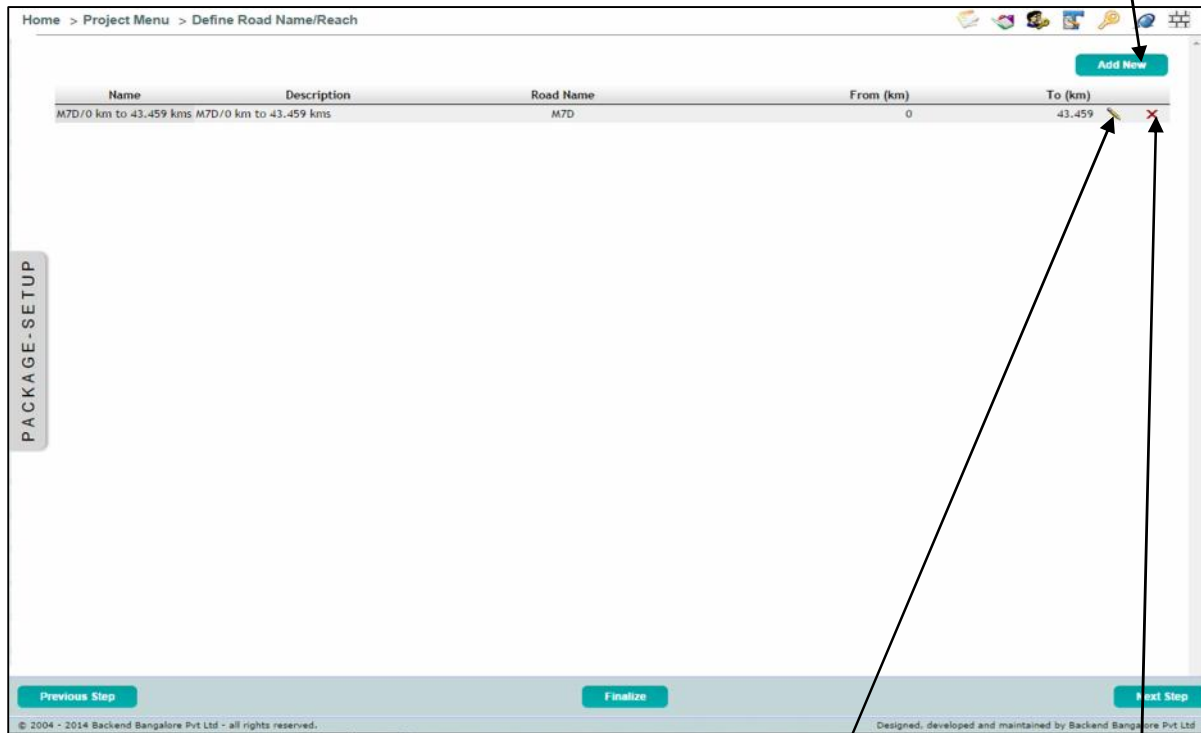
Cancel

Save

## 4.1.3 Define Road Name/Reach

In this module the actual range of the road work can be defined

Click here to add new Reach

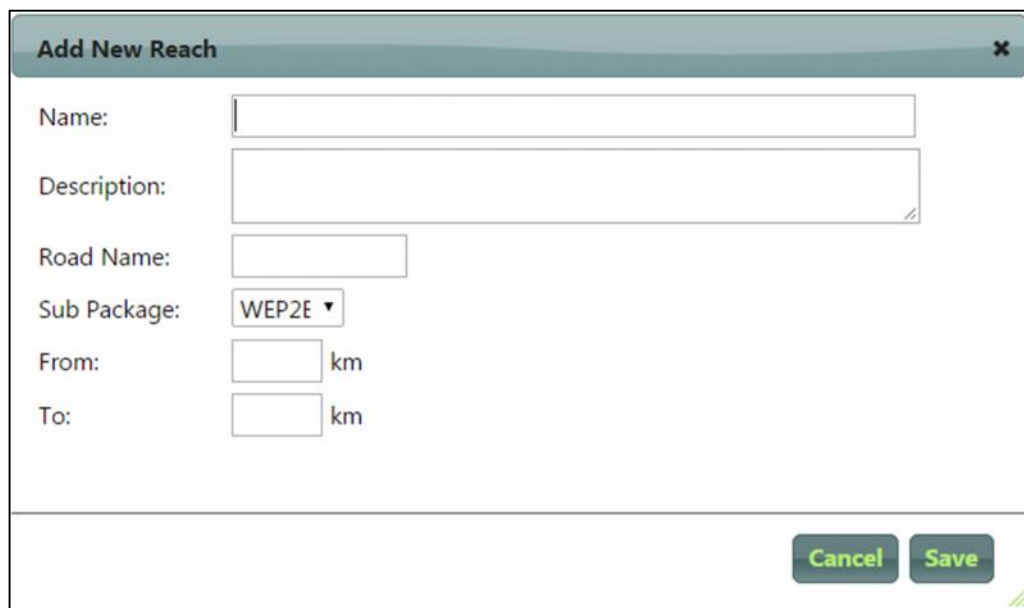


Name	Description	Road Name	From (km)	To (km)
M7D/0 km to 43.459 kms	M7D/0 km to 43.459 kms	M7D	0	43.459

Click here to edit

Click here to delete

Add New Road Name / Reach screen



**Add New Reach**

Name:

Description:

Road Name:

Sub Package:

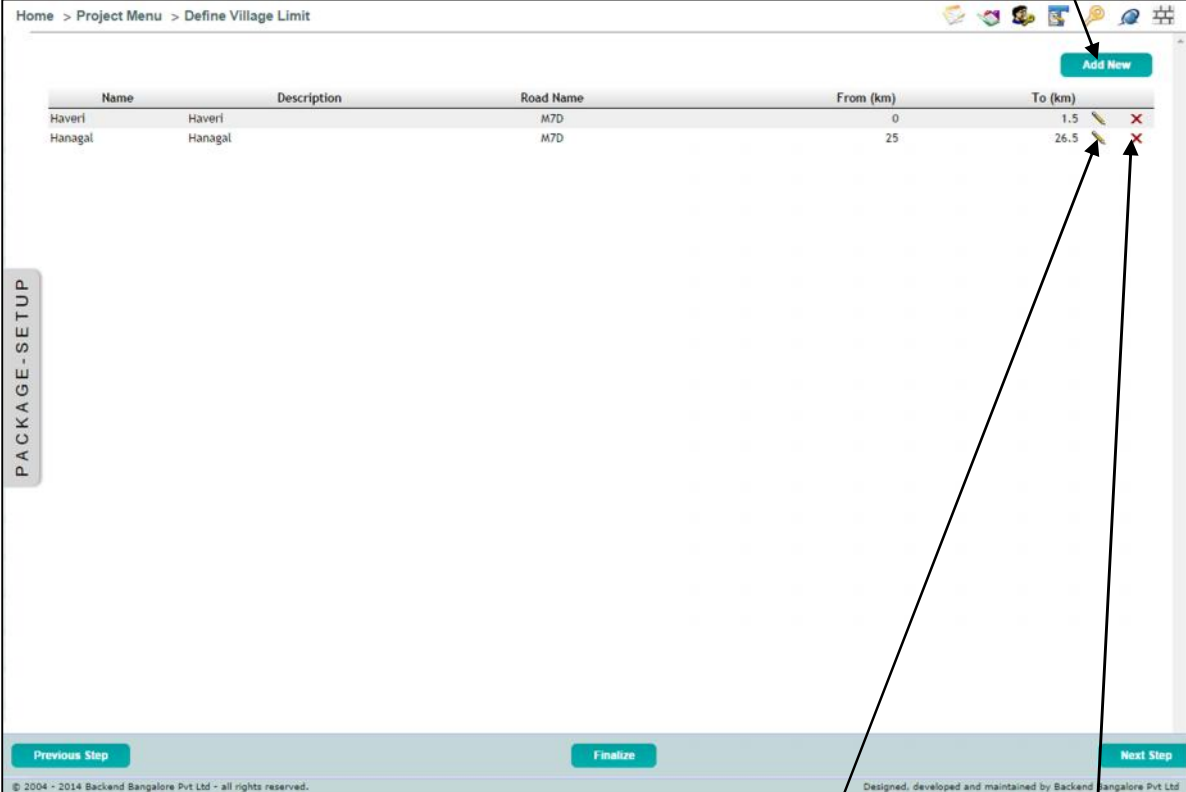
From:  km

To:  km

## 4.1.4 Define Village Limits

The list of village passing by the work reach / road name can be defined in this module.

Click here to add new Village Limit



Click here to edit

Click here to delete

Adding New Village screen

Add New Village Limit

Name:

Hanagal

Road Name:

M7D

From:

25

km

To:

26.5

km

Cancel

Save

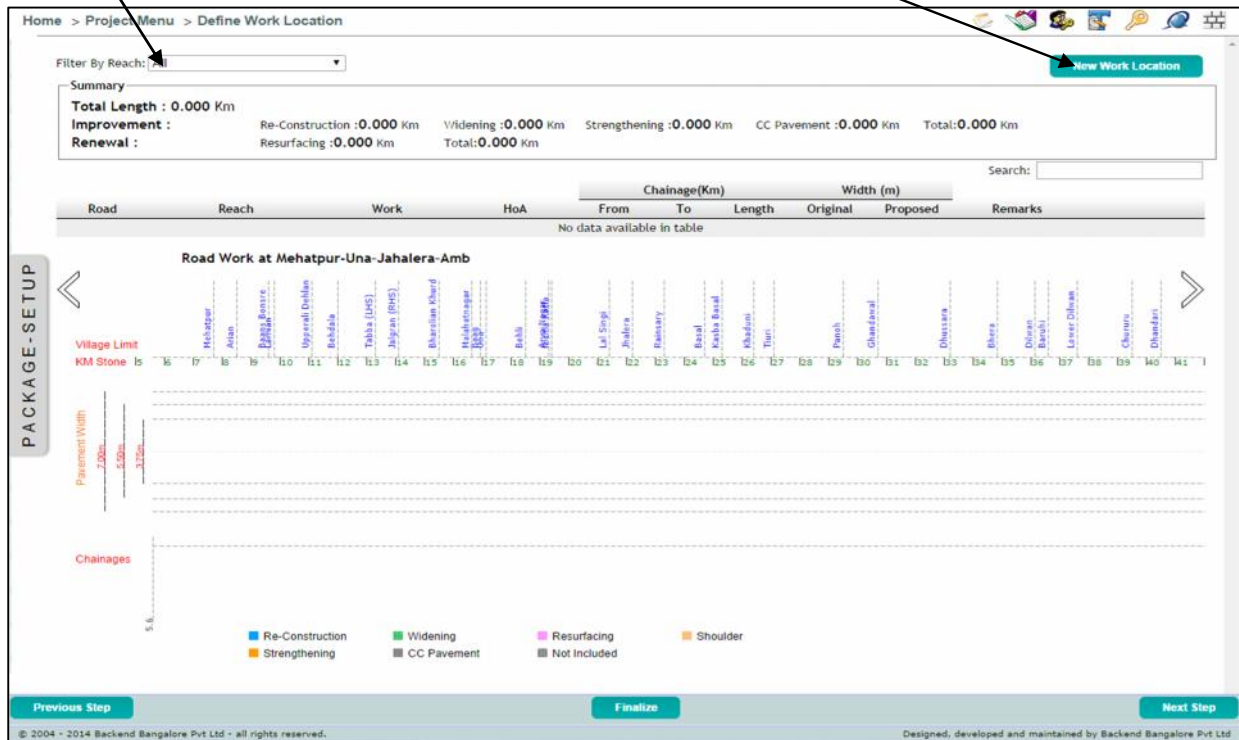


### 4.1.5 Define Work Location

In this module, exact work locations are defined with Reach, From and To chainages, Work Type and Width of the road.

Select the Reach

Click here to add Work Location



Home > Project Menu > Define Work Location

Filter By Reach: All

**Summary**

Total Length : 0.000 Km  
Improvement : Re-Construction : 0.000 Km Widening : 0.000 Km Strengthening : 0.000 Km CC Pavement : 0.000 Km Total: 0.000 Km  
Renewal : Resurfacing : 0.000 Km Total: 0.000 Km

Search:

Road	Reach	Work	HoA	Chainage(Km)		Length	Width (m)		Remarks
				From	To		Original	Proposed	
No data available in table									

**Road Work at Mehatpur-Una-Jahalera-Amb**

Village Limit  
KM Stone 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

Package Setup  
Pavement Width: 7.50m, 5.00m, 3.75m

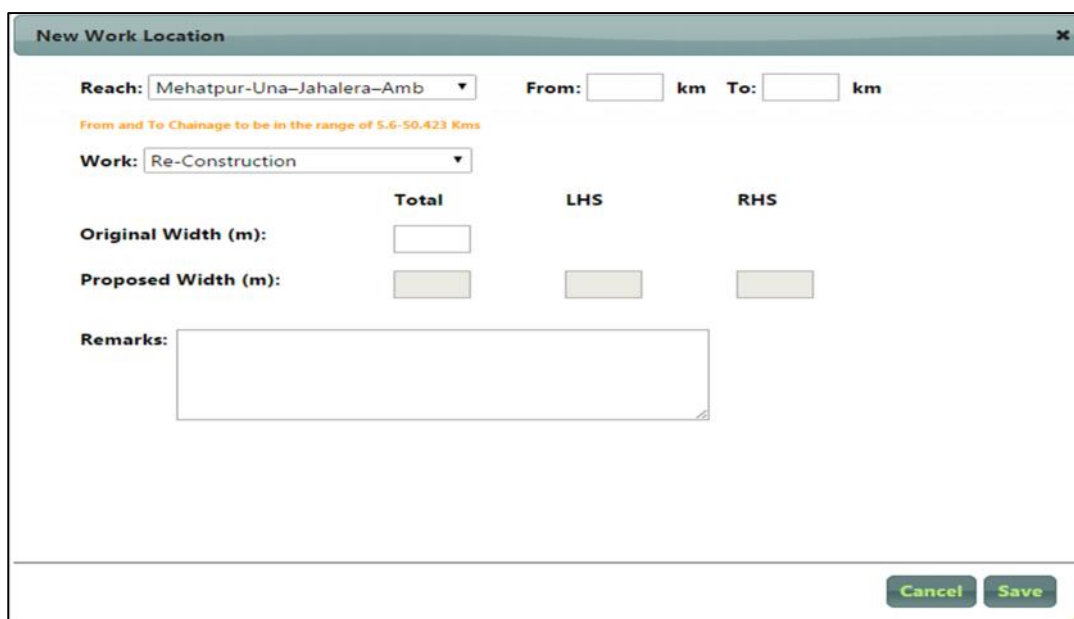
Chainages

Legend:  
Re-Construction (Blue), Widening (Green), Resurfacing (Pink), Shoulder (Orange), Strengthening (Yellow), CC Pavement (Grey), Not Included (White)

Previous Step Finalize Next Step

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### Adding Work Location Screen



**New Work Location**

Reach: Mehatpur-Una-Jahalera-Amb From: km To: km

From and To Chainage to be in the range of 5.6-50.423 Kms

Work: Re-Construction

Total LHS RHS

Original Width (m):

Proposed Width (m):

Remarks:

Cancel Save

## 4.1.6 Structures

This module is used to add Structures with structure name, structure code, chainage details for which the structure is associated with, starting point of the structure, drawing number associated with the structure, type of structure template and description.

Click here to add new Structure

Home > Project Menu > Structures

Filter by Structure Type: All

☒ Design available
 ☐ Design not available

Import Structures

Add new

Search:

Structure Name	Starting Point	Type	Description			
19B/ Box Culvert/ 0.434	0.434	Box Culvert				X
19D (EXT) /Box Culvert/ 0.460	0.46	Box Culvert				X
19A/ Box Culvert/ 0.861	0.861	Box Culvert				X
19B/ Box Culvert/ 1.223	1.223	Box Culvert				X
19D/Box Culvert/ 1.776	1.776	Box Culvert				X
19B/ Box Culvert/ 10.062	10.062	Box Culvert				X
19A/ Box Culvert/ 11.023	11.023	Box Culvert				X
19A/ Box Culvert/ 11.558	11.558	Box Culvert				X
19D/Box Culvert/ 11.652	11.652	Box Culvert				X
19A/ Box Culvert/ 12.408	12.408	Box Culvert				X
19C/Box Culvert/ 12.639	12.639	Box Culvert				X
19D/Box Culvert/ 13.446	13.446	Box Culvert				X
19A/ Box Culvert/ 15.899	15.899	Box Culvert				X
19B/ Box Culvert/ 16.420	16.42	Box Culvert				X
19B/ Box Culvert/ 18.560	18.56	Box Culvert				X

Showing 1 to 15 of 221 entries

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Finalize

Next Step

First

Previous

1

2

3

4

5

Next

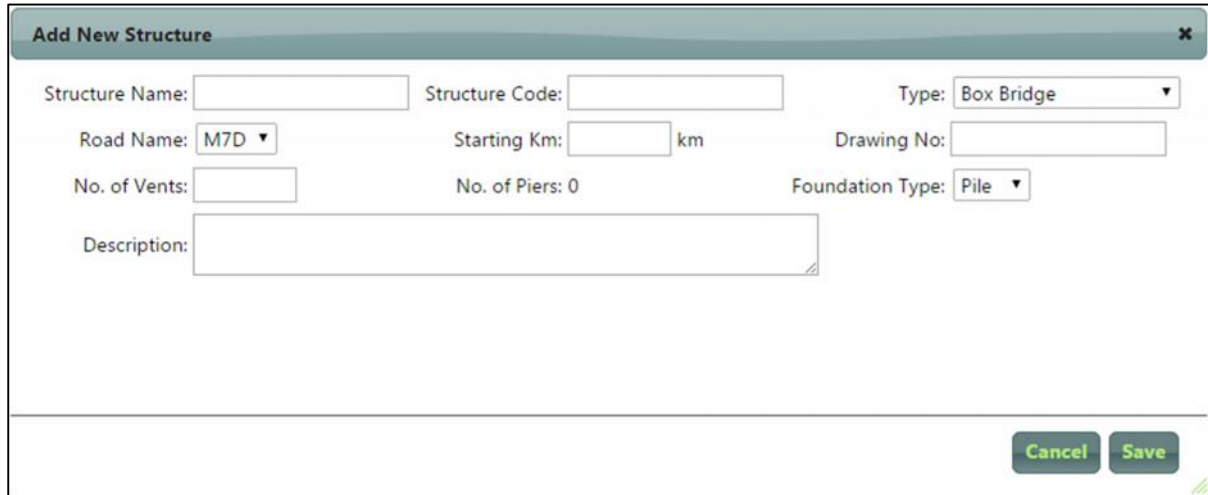
Last

Click here to edit

Click here to add Structure Template

Click here to delete

## Add New Structure Screen



**Add New Structure**

Structure Name:  Structure Code:  Type:

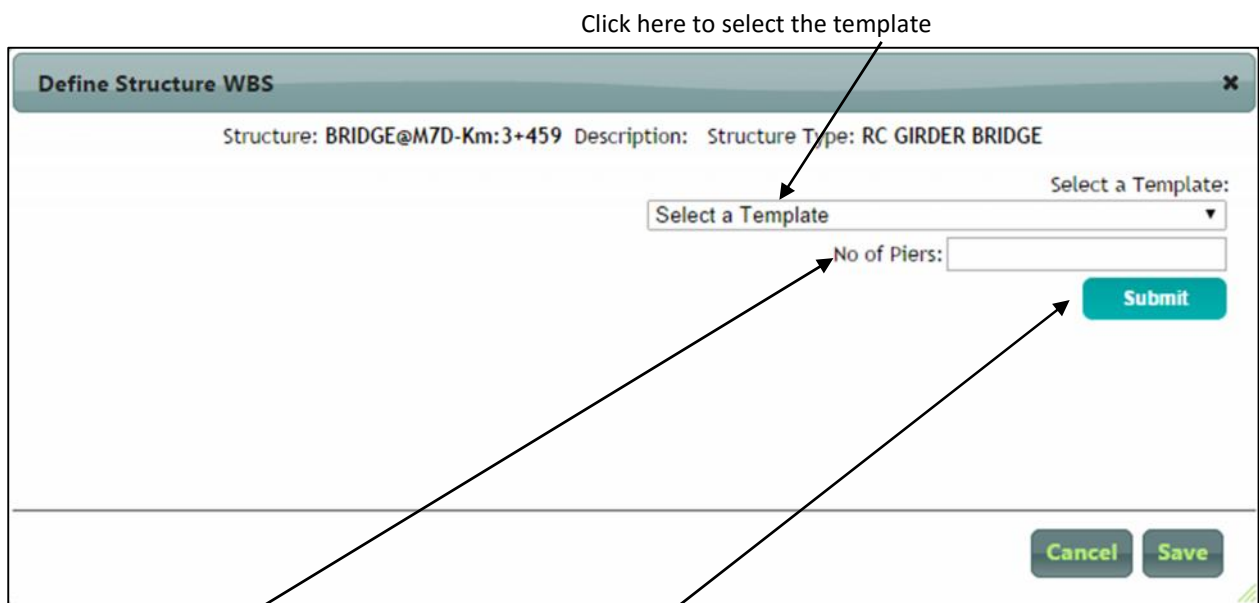
Road Name:  Starting Km:  km Drawing No:

No. of Vents:  No. of Piers: 0 Foundation Type:

Description:

## Add structure template screen

Step 1: Click on add structure template to add the template



**Define Structure WBS**

Structure: BRIDGE@M7D-Km:3+459 Description: Structure Type: RC GIRDER BRIDGE

Select a Template:

No of Piers:

Click here to select the template

Enter the no. of Piers

Click on Submit to finalize the template

Step 2: If required, add / delete additional items associated with the structure

Select the item      Add the Item name and code

The screenshot shows the 'Define Structure WBS' window. The title bar is 'Define Structure WBS'. The main area displays a tree view of WBS items. The structure is: HPC@M7D-Km:0+807 (Structure: HPC@M7D-Km:0+807 Description: Increase Vent Size Structure Type: Pipe Culvert). Under HPC@M7D-Km:0+807, there are two main branches: LHS and RHS. LHS contains: Excavation, PCC M-15, RCC M-20, Pipe Laying (selected), Parapet, and Backfilling. RHS contains: Excavation, PCC M-1, RCC M-2, Pipe Lay, Parapet, and Backfilling. A context menu is open over the 'Pipe Lay' item in the RHS branch, showing options: Edit, Cut, Copy, Paste, Delete, and Quit. To the right of the tree view, there is a form to add a new item. It includes a dropdown for 'Item Type' (currently 'Select an item'), a text field for 'Item Code', and a text field for 'Item Name\*'. Below these fields is an 'Add' button. At the bottom right of the window are 'Cancel' and 'Save' buttons.

Right Click on the item to edit/delete

Click on "Save" to save the changes made

#### 4.1.7 Bill of Quantities /BoQ

Bill of Quantity Items can be added, edited or deleted in this module. Sections in BOQ can be listed. Advances paid can be defined. BOQ can be uploaded directly through excel using a excel template.

Also Group code can be imported from the masters. All BoQ Items can be associated with Job Codes.

Click here to add New BoQ Section

Click here to add new BoQ Item

Home > Project Menu > Bill of Quantities

Name of BOQ: BOQ/C-01      Reference: PKG/C-01      Contractor:      DRAFT

Description: Mehatur - Una - Jahalera - Amb Road

Total BOQ Amount: Rs 1,399,918,194.00

Total Variation Order Amount : Rs.0.00

Net Amount (in fig.): Rs. 1,262,726,210.99      Net Amount (In Words): Rs. One Hundred Twenty Six Crore Twenty Seven Lakh Twenty Six Thousand Two Hundred Ten ps. Nine Nine

New BOQ Section      Job Code      Group Codes      Edit BOQ Details      Import BOQ

BILL NO. 1 - SITE CLEARANCE      Edit BOQ Section

PACKAGE-SETUP

Name	Description	Unit	Boq Qty	VO Qty	Final Qty	Rate(Rs)	Amount(Rs)
1.01	Clearing and Grubbing Road Land	ha	57	0.00	57.00	40398.00	2,302,686.00
1.02	Cutting ( cutting of trees including cutting of trunks, branches and removal of stumps, roots)	No	0	0.00	0.00	0.00	0.00
(i)	Above 300mm to 600mm girth	No	255	0.00	255.00	126.00	32,130.00
(ii)	600mm to 900mm girth	No	255	0.00	255.00	241.00	61,455.00
(iii)	900mm to 1800mm girth	No	255	0.00	255.00	444.00	113,220.00
(iv)	Above 1800mm girth	No	85	0.00	85.00	822.00	69,870.00
1.03	Dismantling of structures	No	0	0.00	0.00	0.00	0.00
(a)	Pavement Structure	No	0	0.00	0.00	0.00	0.00
(i)	Bituminous Courses	Cum	2010	0.00	2010.00	179.00	359,790.00
(b)	Guard stones / KM stones/ Sign post/ Hectometre stones	No	180	0.00	180.00	128.00	23,040.00
(c)	Dismantling of Kerb	Lm	3920	0.00	3920.00	9.00	35,280.00
(d)	Stone Pitching/ boulder apron/ brick soling/ stone soling	Cum	300	0.00	300.00	122.00	36,600.00
1.04	Removal, Shifting and Relocation of Existing Electrical Lines	No	0	0.00	0.00	0.00	0.00
(a)	11 KV HT Lines all Inclusive	Km	0.5	0.00	0.50	100000.00	50,000.00
(b)	33 KV HT Lines all Inclusive	Km	1.85	0.00	1.85	500000.00	925,000.00
(c)	LT lines of all Inclusive	Km	8.7	0.00	8.70	20000.00	174,000.00
1.05	Removal, Shifting & Relocation of Existing Water pipe Lines of dia :	No	0	0.00	0.00	0.00	0.00
(a)	0.5" all Inclusive	Lm	25	0.00	25.00	150.00	3,750.00
(b)	1" all Inclusive	Lm	475	0.00	475.00	298.00	141,550.00
(c)	1.25" all Inclusive	Lm	40	0.00	40.00	380.00	15,200.00
(d)	1.5" all Inclusive	Lm	500	0.00	500.00	438.00	219,000.00
(e)	2" all Inclusive	Lm	500	0.00	500.00	620.00	310,000.00
(f)	2.5" all Inclusive	Lm	200	0.00	200.00	795.00	159,000.00
(g)	3" all Inclusive	Lm	40	0.00	40.00	1038.00	41,520.00
(h)	4" all Inclusive	Lm	40	0.00	40.00	1515.00	60,600.00
1.06	Credit for salvage value	No	0	0.00	0.00	0.00	0.00
(a)	Brick Masonry	Cum	50	0.00	50.00	-1.00	-50.00
(b)	Stone Masonry	Cum	915	0.00	915.00	-1.00	-915.00
(c)	Plain Cement Concrete	Cum	687	0.00	687.00	-1.00	-687.00
(d)	Reinforcement Cement Concrete	Cum	40	0.00	40.00	-1.00	-40.00
(e)	Hume Pipe, guard rails, gutters and fencing.	Lm	12	0.00	12.00	-1.00	-12.00

Previous Step      Finalize      Next Step

Click here to Add Job Codes

Click here to import Group Code

Click here to edit BoQ Details

## Step 1: Edit/ Update the BoQ Details

Click on “Edit BoQ Section” button to update the BoQ details

Update BOQ

Name of BOQ: BOQ/C-01

Reference: PKG/C-01

Description: Mehatpur – Una – Jahalera – Amb Road

Deduction Amount:Rs

Rebate Percent @:

Status: DRAFT

Cancel

Update

## Step 2: Import Group Code from master

Click on “Group Code” button

Click here to add new Group Code Click here to Import from master

Work Type : All

New Group Code

Import From Master

Search:

Serial No.	Group Code	Description	Work Type	
1	C&G	C&G in Roadworks	PAVEMENT	
2	Earth/Work-Excavation	Earth/Work-Excavation in Road/Works	PAVEMENT	
3	Embankment	Earth/Work-Embankment in Road/Works	PAVEMENT	
4	Sub-Grade	Sub-Grade	PAVEMENT	
5	GSB	GSB	PAVEMENT	
6	V/MM	V/MM	PAVEMENT	
7	Tack Coat	Tack Coat	PAVEMENT	
8	Prime Coat	Prime Coat	PAVEMENT	
9	DBM	DBM	PAVEMENT	
10	BC	BC	PAVEMENT	
11	MSS	MSS	PAVEMENT	
12	Kerb	Kerb	PAVEMENT	
13	Shoulder	Shoulder	PAVEMENT	
14	Drainage	Drainage	PAVEMENT	
17	General	General	MISC	
19	Day/Works	Day Works	MISC	
23	Demolition	Demolition of Existing structure	MISC	
24	Signages	Traffic signs, markings & other road appurtenances	MISC	
25	Safety	Safety in road construction zone	MISC	
26	Environment	Implementation of Environmental Management Action Plan	MISC	
1001	Foundation-Excavation	Foundation-Excavation	STRUCTURE	
1002	PCC	PCC	STRUCTURE	
1003	Foundation-Walls	Foundation/Raft & Walls	STRUCTURE	
1004	Head Walls-Backfilling	Head Walls and Backfilling	STRUCTURE	
1005	Slab	RCC Super Structure(Slab)	STRUCTURE	
1006	Pipe Laying	Pipe Laying	STRUCTURE	

Showing 1 to 26 of 26 entries



Step 3: Create a New BoQ Section and add the list of BoQ Items belonging to this section

New BOQ Section

Job Code

Group Codes

Edit BOQ Details

Import BOQ

BILL NO. 1 - SITE CLEARANCE

Edit BOQ Section

Name	Description	Unit	Boq Qty	VO Qty	Final Qty	Rate(Rs)	Amount(Rs)
1.01	Clearing and Grubbing Road Land	ha	57	0.00	57.00	40398.00	2,302,686.00
1.02	Cutting ( cutting of trees including cutting of trunks, branches and removal of stumps, roots)		0	0.00	0.00	0.00	0.00
(i)	Above300mm to 600mm girth	No	255	0.00	255.00	126.00	32,130.00
(ii)	600mm to 900 mm girth	No	255	0.00	255.00	241.00	61,455.00
(iii)	900mm to 1800mm girth	No	255	0.00	255.00	444.00	113,220.00
(iv)	Above 1800mm girth	No	85	0.00	85.00	822.00	69,870.00
1.03	Dismantling of structures		0	0.00	0.00	0.00	0.00

New BoQ Item addition screen

Add New BOQ Item

Caption\*:

Description\*:

Quantity\*:

Cum

Contract Rate\*:

Sanction Estimate Rate\*:

Cancel

Add

Step 4: After creating the BoQ Sections and adding the items of the relevant sections. Now add the BoQ Items into the Job Code.

(Click on Job Code)

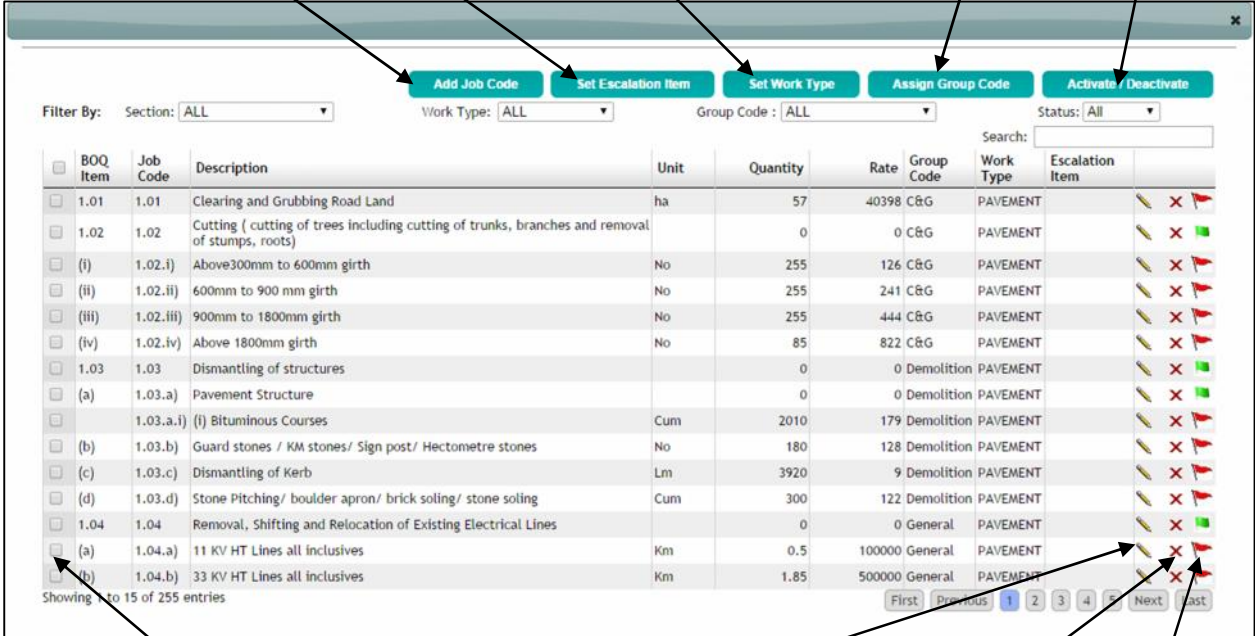
Click here to set as Escalation items

Click here to activate/deactivate the Job Codes

Click here to set Work Type

Click here to add the Job Code

Click here to assign the Group code



The screenshot displays a web application interface for managing BoQ items. At the top, there are five buttons: 'Add Job Code', 'Set Escalation Item', 'Set Work Type', 'Assign Group Code', and 'Activate / Deactivate'. Below these buttons are filter dropdowns for 'Section' (set to 'ALL'), 'Work Type' (set to 'ALL'), 'Group Code' (set to 'ALL'), and 'Status' (set to 'All'). A search bar is also present. The main area contains a table with columns: 'BOQ Item', 'Job Code', 'Description', 'Unit', 'Quantity', 'Rate', 'Group Code', 'Work Type', 'Escalation Item', and a final column with edit, delete, and status icons. The table lists various items such as 'Clearing and Grubbing Road Land', 'Cutting (cutting of trees including cutting of trunks, branches and removal of stumps, roots)', and 'Removal, Shifting and Relocation of Existing Electrical Lines'. Annotations with arrows point to specific elements: 'Click here to add the Job Code' points to the 'Add Job Code' button; 'Click here to set as Escalation items' points to the 'Set Escalation Item' button; 'Click here to activate/deactivate the Job Codes' points to the 'Activate / Deactivate' button; 'Click here to set Work Type' points to the 'Set Work Type' button; 'Click here to assign the Group code' points to the 'Assign Group Code' button; 'Click here to select the Job Codes' points to the 'Job Code' column header; 'Click here to edit' points to the edit icon in the final column; 'Click here to delete' points to the delete icon; and 'Click here Activate/Deactivate' points to the status icons.

BOQ Item	Job Code	Description	Unit	Quantity	Rate	Group Code	Work Type	Escalation Item	
1.01	1.01	Clearing and Grubbing Road Land	ha	57	40398	C&G	PAVEMENT		
1.02	1.02	Cutting ( cutting of trees including cutting of trunks, branches and removal of stumps, roots)		0	0	C&G	PAVEMENT		
(i)	1.02.i	Above 300mm to 600mm girth	No	255	126	C&G	PAVEMENT		
(ii)	1.02.ii	600mm to 900 mm girth	No	255	241	C&G	PAVEMENT		
(iii)	1.02.iii	900mm to 1800mm girth	No	255	444	C&G	PAVEMENT		
(iv)	1.02.iv	Above 1800mm girth	No	85	822	C&G	PAVEMENT		
1.03	1.03	Dismantling of structures		0	0	Demolition	PAVEMENT		
(a)	1.03.a	Pavement Structure		0	0	Demolition	PAVEMENT		
	1.03.a.i	(i) Bituminous Courses	Cum	2010	179	Demolition	PAVEMENT		
(b)	1.03.b	Guard stones / KM stones/ Sign post/ Hectometre stones	No	180	128	Demolition	PAVEMENT		
(c)	1.03.c	Dismantling of Kerb	Lm	3920	9	Demolition	PAVEMENT		
(d)	1.03.d	Stone Pitching/ boulder apron/ brick soling/ stone soling	Cum	300	122	Demolition	PAVEMENT		
1.04	1.04	Removal, Shifting and Relocation of Existing Electrical Lines		0	0	General	PAVEMENT		
(a)	1.04.a	11 KV HT Lines all inclusive	Km	0.5	100000	General	PAVEMENT		
(b)	1.04.b	33 KV HT Lines all inclusive	Km	1.85	500000	General	PAVEMENT		

Showing 1 to 15 of 255 entries

First Previous 1 2 3 4 5 Next Last

Click here to select the Job Codes

Click here to edit

Click here to delete

Click here Activate/Deactivate

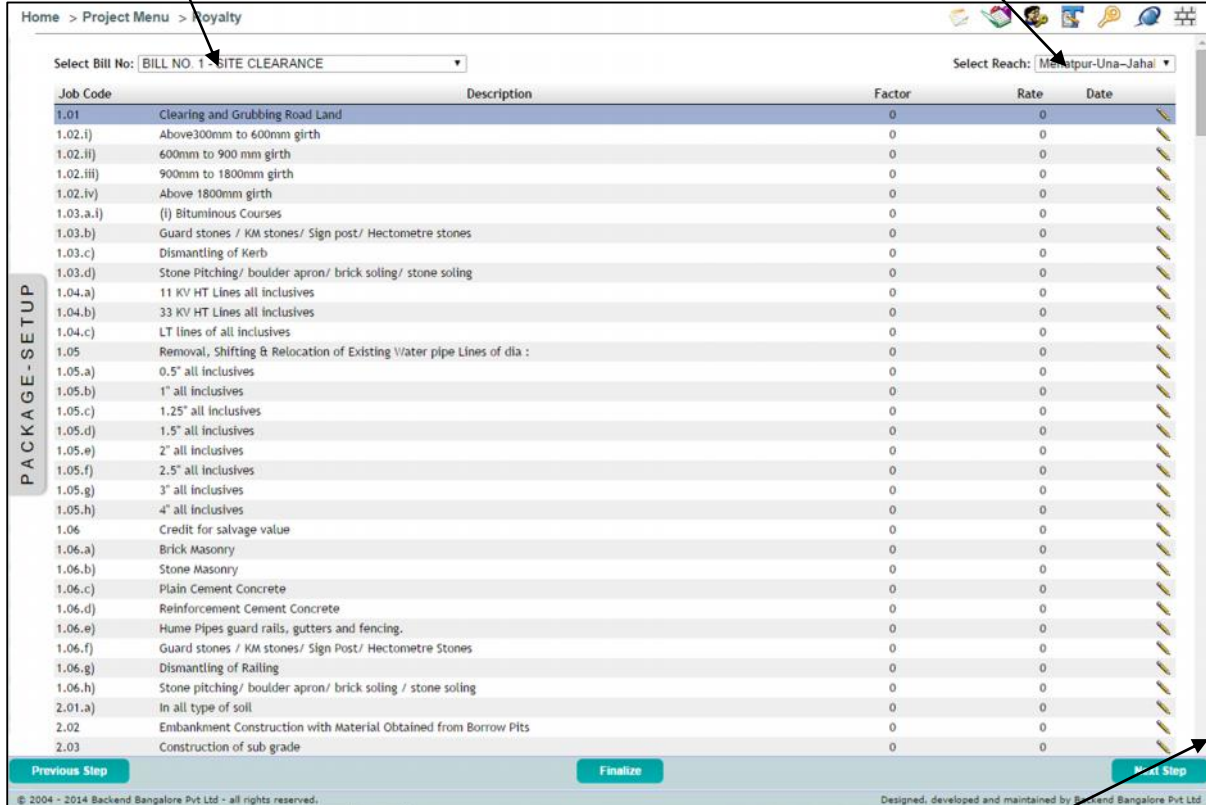


## 4.1.8 Royalty

In this module, royalty factor and rate can be updated for all BoQ Items

Click here to select the BoQ Sections

Click here to select the reach



Home > Project Menu > Royalty

Select Bill No: BILL NO. 1 SITE CLEARANCE

Select Reach: Masatpur-Una-Jahal

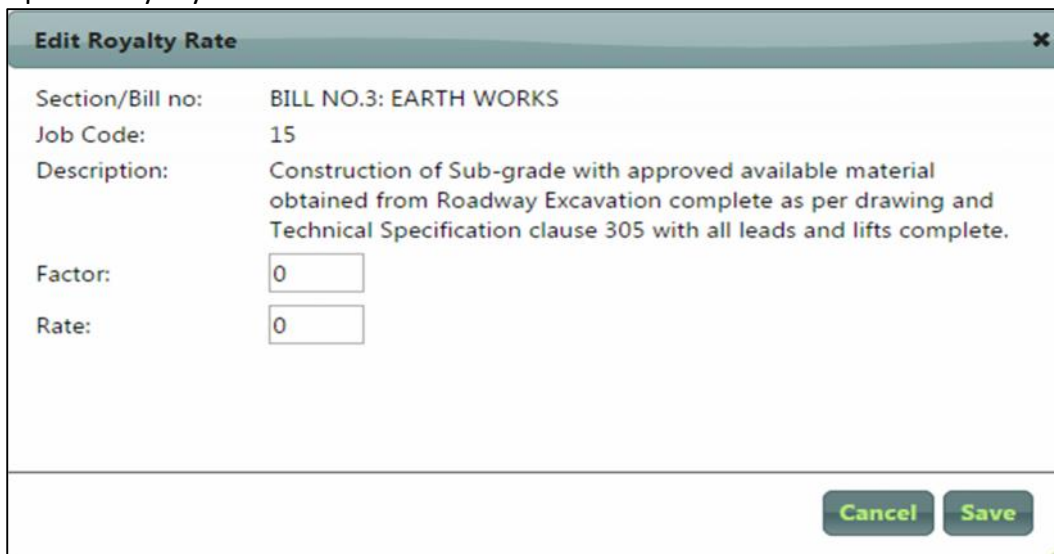
Job Code	Description	Factor	Rate	Date
1.01	Clearing and Grubbing Road Land	0	0	
1.02.i)	Above 300mm to 600mm girth	0	0	
1.02.ii)	600mm to 900 mm girth	0	0	
1.02.iii)	900mm to 1800mm girth	0	0	
1.02.iv)	Above 1800mm girth	0	0	
1.03.a.i)	(f) Bituminous Courses	0	0	
1.03.b)	Guard stones / KM stones/ Sign post/ Hectometre stones	0	0	
1.03.c)	Dismantling of Kerb	0	0	
1.03.d)	Stone Pitching/ boulder apron/ brick soling/ stone soling	0	0	
1.04.a)	11 KV HT Lines all Inclusive	0	0	
1.04.b)	33 KV HT Lines all Inclusive	0	0	
1.04.c)	LT lines of all Inclusive	0	0	
1.05	Removal, Shifting & Relocation of Existing Water pipe Lines of dia :	0	0	
1.05.a)	0.5" all Inclusive	0	0	
1.05.b)	1" all Inclusive	0	0	
1.05.c)	1.25" all Inclusive	0	0	
1.05.d)	1.5" all Inclusive	0	0	
1.05.e)	2" all Inclusive	0	0	
1.05.f)	2.5" all Inclusive	0	0	
1.05.g)	3" all Inclusive	0	0	
1.05.h)	4" all Inclusive	0	0	
1.06	Credit for salvage value	0	0	
1.06.a)	Brick Masonry	0	0	
1.06.b)	Stone Masonry	0	0	
1.06.c)	Plain Cement Concrete	0	0	
1.06.d)	Reinforcement Cement Concrete	0	0	
1.06.e)	Hume Pipes guard rails, gutters and fencing.	0	0	
1.06.f)	Guard stones / KM stones/ Sign Post/ Hectometre Stones	0	0	
1.06.g)	Dismantling of Railing	0	0	
1.06.h)	Stone pitching/ boulder apron/ brick soling / stone soling	0	0	
2.01.a)	In all type of soil	0	0	
2.02	Embankment Construction with Material Obtained from Borrow Pits	0	0	
2.03	Construction of sub grade	0	0	

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Click here to update the Royalty Factor and rate

Update Royalty rate screen



**Edit Royalty Rate**

Section/Bill no: BILL NO.3: EARTH WORKS

Job Code: 15

Description: Construction of Sub-grade with approved available material obtained from Roadway Excavation complete as per drawing and Technical Specification clause 305 with all leads and lifts complete.

Factor: 0

Rate: 0

Cancel Save

## 4.1.9 Escalation Base Index

In this module, the base index values of the escalation components can be updated. These components base index values are defined at the time of the agreement.

Home > Project Menu > Escalation Base Index

PACKAGE-SETUP

LIST OF ESCALATION COMPONENTS	
Component	Base Index/Price
Labour	0
Cement	0
Steel	0
Plant & Machinery & Spares	0
Bitumen	0
Fuel & Lubricants	0
Other materials	0

Save

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## 4.1.10 Construction Program

In this module, construction activities like monthly physical progress, weekly and monthly financial progress, monthly quantity wise progress and monthly structure wise progress can be planned.

- Weightage for Work Progress Calculations**

In this module, Weightages can be given Linear wise, Structure wise, and Miscellaneous wise. All the three contributes overall progress of the work package, further weightages can be given for each work type.

Home > Project Menu > Progress Weightage

Type of Work	Weightage	%
Linear Progress	69	69
Structure Progress	12	12
MISC Progress	19	19

Layer	Weightage	%
SDBC	0	0
BC	21.6	21.6
DBM	29.1	29.1
WMM	18.1	18.1
GSE	10.9	10.9
EMBANKMENT	0	0
SG	20.3	20.3

Structure Type	Weightage	%
Pipe Culvert	16.7	16.69
Slab Bridge	0	0
Box Bridge	35.2	33.18
Major Bridge	9.9	9.89
Pipe Bridge	0	0
Slab Culvert	5.1	5.1
RE Wall	0	0
Box Culvert	35.15	35.14

Save

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- **Monthly Physical Progress plan**

In this module, physical progress of each layer can be planned in monthly wise

Home > Project Menu > Physical Progress Plan

PACKAGE-SETUP

Monthly Plan - HPRIDC

	May08	Jun08	Jul08	Aug08	Sep08	Oct08	Nov08	Dec08	Jan09	Feb09	Mar09	Apr09	May09	Jun09	Jul09	Aug09	Sep09	Oct09	Nov09	Dec09	Jan10	Feb10
Sub Grade	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GSB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WMM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DBM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BC/SDBC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SDBC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Drains	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Shoulders	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Cancel

Save

Previous Step

Finalize

Next Step

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- Milestone wise Monthly Physical Progress plan**

In this module, physical progress of each layer can be planned in monthly wise

Home > Project Menu > Physical Progress Plan

Milestone 1 24-Mar-14 to 24-Dec-14

Activity	Total KM	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Shoulders	0.00	0	0	0	0	0	0	0	0	0	0
Drains	0.00	0	0	0	0	0	0	0	0	0	0
BC	0.00	0	0	0	0	0	0	0	0	0	0
SDBC	0.00	0	0	0	0	0	0	0	0	0	0
BM	0.00	0	0	0	0	0	0	0	0	0	0
DBM	0.00	0	0	0	0	0	0	0	0	0	0
WMM	0.00	0	0	0	0	0	0	0	0	0	0
G5B	0.00	0	0	0	0	0	0	0	0	0	0
Sub Grade	0.00	0	0	0	0	0	0	0	0	0	0

Milestone 2 12-Dec-14 to 11-Mar-15

Activity	Total KM	Dec-14	Jan-15	Feb-15	Mar-15
Shoulders	20.29	0	0	5.29	15
Drains	0.00	0	0	0	0
BC	20.29	0	0	5.29	15
SDBC	0.00	0	0	0	0
BM	0.00	0	0	0	0
DBM	20.29	0	1	9	10.29
WMM	20.29	0	1	11	8.29
G5B	20.29	1	3	8	8.29
Sub Grade	20.29	2	5	7	6.29

PACKAGE-SETUP

Previous Step Finalize Next Step

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- Weekly Financial Expenditure Plan**

In this module, the weekly expenditure of the package can be planned

Home > Project Menu > Weekly Physical Progress Plan

Select quarter: Q1-2011

Previous Quarter

Weekly Financial Expenditure Plan for Q1-2011 (in INR lacs)

	05-Jan	12-Jan	19-Jan	26-Jan	02-Feb	09-Feb	16-Feb	23-Feb	02-Mar	09-Mar	16-Mar	23-Mar	30-Mar	31-Mar	Total
															0.00

Cancel Save

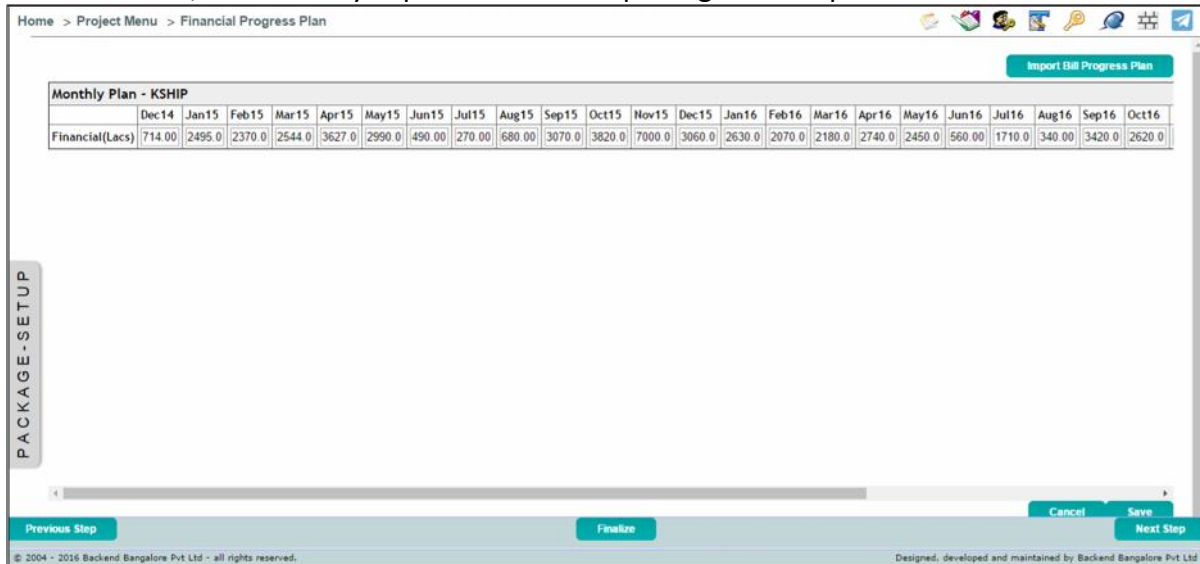
PACKAGE-SETUP

Previous Step Finalize Next Step

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- **Monthly Financial Expenditure Plan**

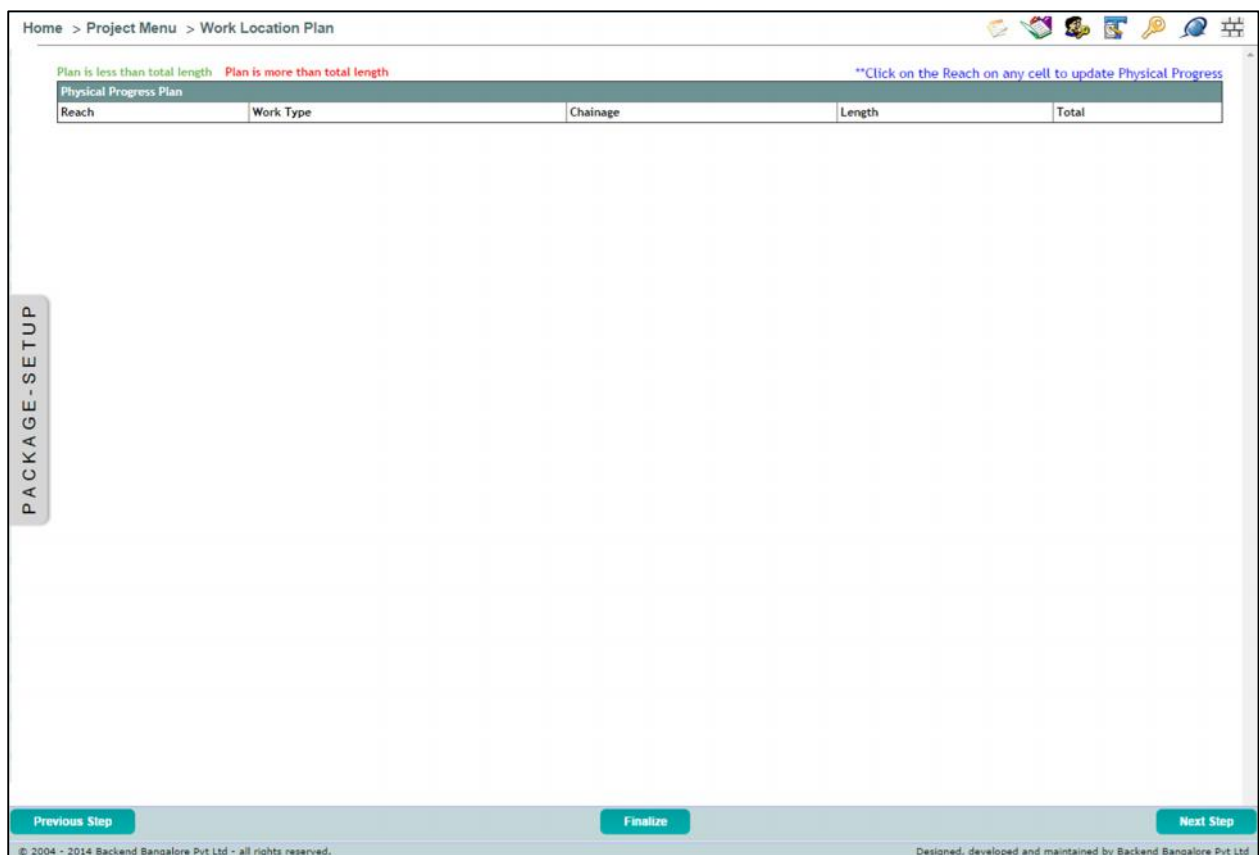
In this module, the monthly expenditure of the package can be planned



	Dec14	Jan15	Feb15	Mar15	Apr15	May15	Jun15	Jul15	Aug15	Sep15	Oct15	Nov15	Dec15	Jan16	Feb16	Mar16	Apr16	May16	Jun16	Jul16	Aug16	Sep16	Oct16
Financial(Lacs)	714.00	2495.0	2370.0	2544.0	3627.0	2990.0	490.00	270.00	680.00	3070.0	3820.0	7000.0	3060.0	2630.0	2070.0	2180.0	2740.0	2450.0	560.00	1710.0	340.00	3420.0	2620.0

- **Work Location Plan**

In this module, each work location layer wise progress can be planned in terms of Kms can be planned.



Reach	Work Type	Chainage	Length	Total

- Quantity Progress plan

In this module, BoQ items wise quantity plan can be done on monthly basis.

Home > Project Menu > Quantity Progress Plan

PACKAGE SETUP

Monthly Plan - Quantity

Item	Rate(Rs.)	Quantity / Amount(Rs.)	May08	Jun08	Jul08	Aug08	Sep08	Oct08	Nov08	Dec08	Jan09	Feb09	Mar09	Apr09	May09	Jun09	Jul09	Aug09	Sep09	Oct09	Nov09	Dec09	Jan10	Feb10	Mar10
SECTION: BILL NO. 1 - SITE CLEARANCE																									
1.01	40398.00	57.0000 ha 2302686.00																							
1.02.i)	126.00	255.0000 No 32130.00																							
1.02.ii)	241.00	255.0000 No 61455.00																							
1.02.iii)	444.00	255.0000 No 113220.00																							
1.02.iv)	822.00	85.0000 No 69870.00																							
1.03.a.i)	179.00	2010.0000 Cum 359790.00																							
1.03.b)	128.00	180.0000 No 23040.00																							
1.03.c)	9.00	3920.0000 Lm 35280.00																							
1.03.d)	122.00	300.0000 Cum 36600.00																							
1.04.a)	100000.00	0.5000 Km 50000.00																							
1.04.b)	500000.00	1.8500 Km 925000.00																							
1.04.c)	20000.00	8.7000 Km 174000.00																							
1.05.a)	150.00	25.0000 Lm 3750.00																							
1.05.b)	298.00	475.0000 Lm 141550.00																							
1.05.c)	380.00	40.0000 Lm 15200.00																							
1.05.d)	438.00	500.0000 Lm 219000.00																							

Cancel

Save

Submit

Previous Step

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Next Step

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- **Structure Progress plan**

In this module, monthly wise the number of structure which are needed to be constructed can be planned here.

Home > Project Menu > Structure Progress Plan



Monthly Plan - HPRIDC																							
	May08	Jun08	Jul08	Aug08	Sep08	Oct08	Nov08	Dec08	Jan09	Feb09	Mar09	Apr09	May09	Jun09	Jul09	Aug09	Sep09	Oct09	Nov09	Dec09	Jan10	Feb10	Mar10
Pipe Culvert	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Slab Culvert	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Box Culvert	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Minor Bridge	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

PACKAGE-SETUP

Cancel

Save

Previous Step

Finalize

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- Milestone wise Culverts & Minor Bridges Progress plan**

In this module, monthly wise the number of Culverts & Minor Bridges which are needed to be constructed can be planned here.

Home > Project Menu > Structure Progress Plan

Culverts & Minor Bridges Major Bridges

Structure Counts by Type

Defined	BOX CULVERT : 40	RE WALL : 0	SLAB CULVERT : 0	PIPE BRIDGE : 0	BOX BRIDGE : 0	SLAB BRIDGE : 0	PIPE CULVERT : 276
Planned	BOX CULVERT : 40	RE WALL : 0	SLAB CULVERT : 0	PIPE BRIDGE : 0	BOX BRIDGE : 0	SLAB BRIDGE : 0	PIPE CULVERT : 276

Please enter plan data in Counts

Milestone 1 24-Mar-14 to 24-Dec-14

Activity	Total Count	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Box Culvert	0	0	0	0	0	0	0	0	0	0	0
RE Wall	0	0	0	0	0	0	0	0	0	0	0
Slab Culvert	0	0	0	0	0	0	0	0	0	0	0
Pipe Bridge	0	0	0	0	0	0	0	0	0	0	0
Box Bridge	0	0	0	0	0	0	0	0	0	0	0
Slab Bridge	0	0	0	0	0	0	0	0	0	0	0
Pipe Culvert	0	0	0	0	0	0	0	0	0	0	0

Milestone 2 12-Dec-14 to 11-Mar-15

Activity	Total Count	Dec-14	Jan-15	Feb-15	Mar-15
Box Culvert	8	1	3	3	1
RE Wall	0	0	0	0	0
Slab Culvert	0	0	0	0	0
Pipe Bridge	0	0	0	0	0
Box Bridge	0	0	0	0	0

Previous Step Finalize Next Step

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- Milestone wise Major Bridges Progress plan**

In this module, monthly wise the Percentage of Major Bridges can be planned here. (enter plan data in Percentage)

Home > Project Menu > Structure Progress Plan

Culverts & Minor Bridges Major Bridges

Please enter plan data in Percentage

Milestone 1 24-Mar-14 to 24-Dec-14

Activity	Total %	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
63D/MAJOR BRIDGE at 2.080	0	0	0	0	0	0	0	0	0	0	0
63E/MAJOR BRIDGE at 22.080	0	0	0	0	0	0	0	0	0	0	0
63F/MAJOR BRIDGE at 25.520	0	0	0	0	0	0	0	0	0	0	0

Milestone 2 12-Dec-14 to 11-Mar-15

Activity	Total %	Dec-14	Jan-15	Feb-15	Mar-15
63D/MAJOR BRIDGE at 2.080	0	0	0	0	0
63E/MAJOR BRIDGE at 22.080	0	0	0	0	0
63F/MAJOR BRIDGE at 25.520	0	0	0	0	0

Milestone 3 12-Mar-15 to 11-Aug-15

Activity	Total %	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15
63D/MAJOR BRIDGE at 2.080	0	0	0	0	0	0	0
63E/MAJOR BRIDGE at 22.080	0	0	0	0	0	0	0
63F/MAJOR BRIDGE at 25.520	0	0	0	0	0	0	0

Previous Step Finalize Next Step

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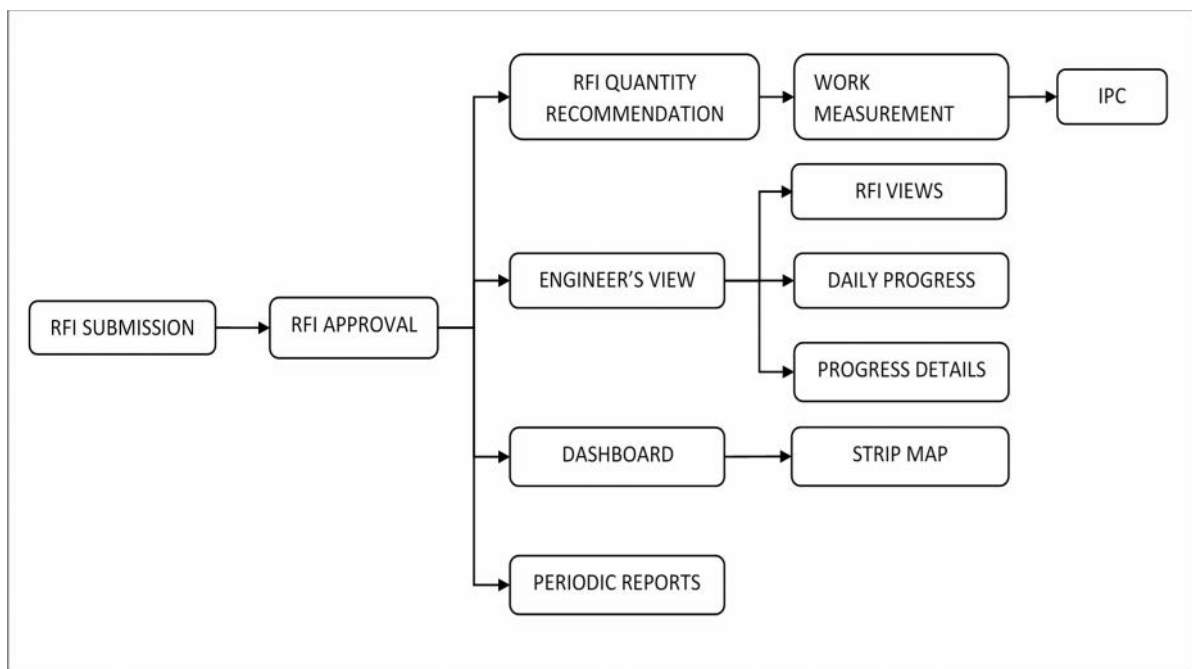
## 4.2 DAILY DATA ENTRIES

This module allows users to enter daily activities, approve daily entries, Quality tests, Upload Progress Photos, Weather Log, Physical and Structure Progress update.

### 4.2.1 RFI Entries

Background: Request for Inspection or RFI is a process where the quantity and quality of the work carried out will be certified/approved. Generally, RFI's are raised/submitted by the contractors and the inspection is carried out by the Department Engineers or by the Resident Engineer of the concerned Consultants team.

RFI Entries data flow diagram



In PMS, RFI entries are done in two steps

1. **RFI Submission**
2. **RFI Approval**
3. **Measurement**

## 1. RFI Submission

Background: RFI submission is either done by the Contractor or by the Consultants who are the work site.

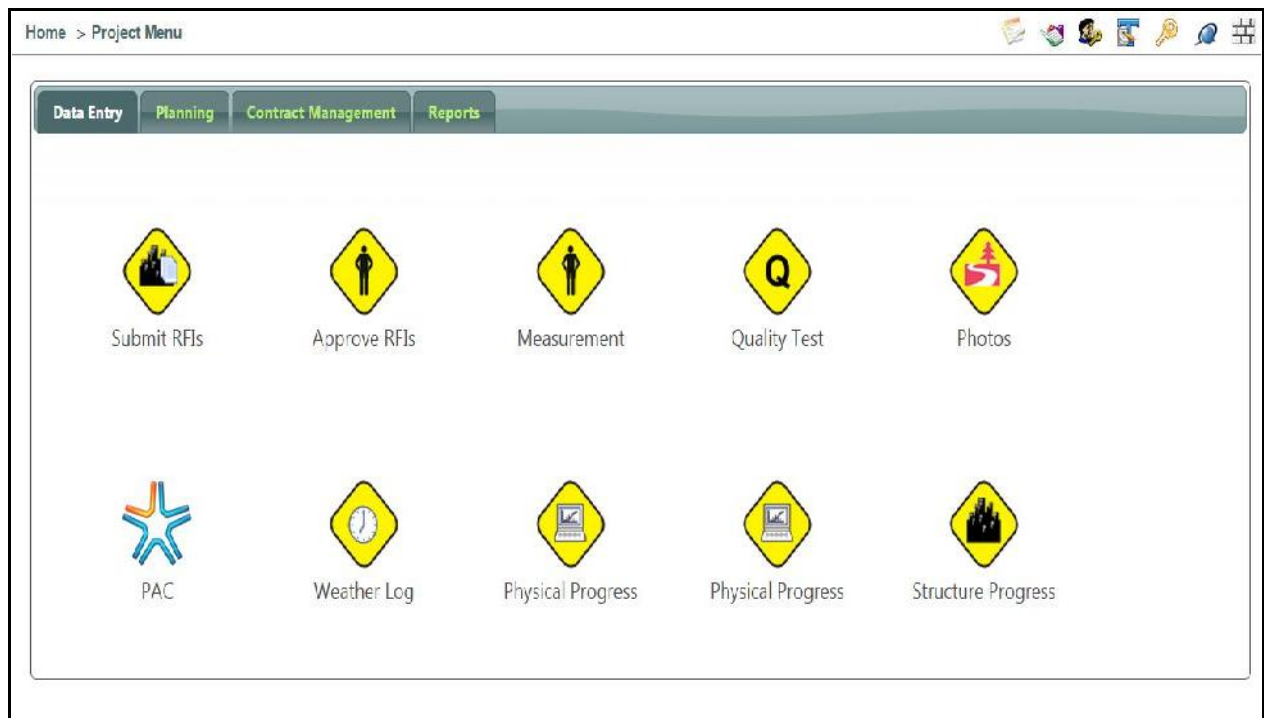
Prerequisite data required for RFI Submission

- Reach / Road Name
- Chainages (From & To)
- Details of BoQ Items
- Structure Chainages

### Step by step procedure of RFI Submission

Step 1: In **Data Entry** tab, click on **Submitted RFI's** to enter a new RFI

(Navigation: Home → Project Menu → Data Entry)



Step 2: Based on the RFI type click on the button as mentioned below to make an RFI entry.

New Road-Works Entry
New Structure Entry
New Misc Entry
New Reconciliation Entry

Home > Project Menu > Submitted RFIs

Filter By: Status: ALL RFI Type: ALL RFI No:

Stretch: ALL Chainage From:  To:  Section: ALL Job Code: ALL Period:  To:

New Road-Works Entry
New Structure Entry
New Misc Entry
New Reconciliation Entry

RFI Date	RFI No	Job Code	Location	Quantity	
29-May-2014	H/11916	3.01.a	67A/0-23.52(13 to 13.3)	280.310 cu.m	
11-Jun-2014	H/12008	3.07	67A/0-23.52(18.53 to 18.6)	44.800 Cum	
30-May-2014	H/11922	3.01.a	67A/0-23.52(13.3 to 13.45)	182.810 cu.m	
02-Jun-2014	H/11946	3.01.a	67A/0-23.52(13.45 to 13.6)	182.090 cu.m	
10-Jun-2014	H/12000	3.01.a	67A/0-23.52(18.53 to 18.6)	123.200 cu.m	
06-Jun-2014	H/11973	3.01.a	67A/0-23.52(18.8 to 18.95)	215.400 cu.m	
09-Jun-2014	H/11985	2.04	67A/0-23.52(18.35 to 18.49)	420.000 Sqm	
09-Jun-2014	H/11984	2.03.e.i	67A/0-23.52(18.49 to 18.64)	67.500 cu.m	
06-Jun-2014	H/11970	2.04	67A/0-23.52(18.7 to 18.8)	300.000 Sqm	
06-Jun-2014	H/11972	2.03.e.i	67A/0-23.52(18.8 to 18.95)	67.500 cu.m	
09-Jun-2014	H/11991	3.05	67A/0-23.52(18.97 to 19.6)	161.880 cu.m	
09-Jun-2014	H/11992	3.05	67A/0-23.52(20 to 20.52)	133.610 cu.m	

Showing 1 to 12 of 111 entries

Finalize
First Previous 1 2 3 4 5 Next Last

Click here to **edit** Click here to **view** Click here to **delete**

Step 3: Road Works / Pavement RFI's Entry Page

**New Road-Works Entry**

Ref No:  Date:  HOA: KSHIP

Stretch: 67A/0-23.52 Chainage From:  km To:  km Layer: TOP

Side: LHS

Section: EARTHWORKS Job Code: 3.01.a

**Job Description:** Roadway excavation necessary for construction of roadway and drainage includes dressing, trimming and compacting the cut formation in accordance with requirements of lines, grades and ...

L:  B:  D:  Quantity:  cu.m

Remarks:

Data Provided By:

Cancel
Check Duplicate
Commit

## Structure RFI's Entry Page

New Structure Entry

Ref No:

Str/332

Date:

07-Aug-14

HOA:

KSHIP

Structure Type:

PIPE CULVERT

Structure Code:

HPC@67A-KM 9+218

Lift:

2nd

Side:

RHS

Section:

CULVERTS

Job Code:

6.05.a

Job Description:

Providing and laying Plain/Reinforced cement concrete in foundation/sub structure etc. excluding r ...

L:

B:

D:

Quantity:

750

cu.m

Remarks:

Data Provided By:

Bridge Engineer

Cancel

Check Duplicate

Commit

## Miscellaneous RFI's Entry Page

New Miscellaneous Entry

Ref No:

Misc/22

Date:

06-Aug-14

HOA:

KSHIP

Stretch:

None

Section:

PRELIMINARY & GENERAL

Job Code:

1.03.a

Job Description:

Supply of video cassette: Taking video film of important activities for p ...

Quantity:

2

No

Remarks:

Video containing the major bridge work @ Chainage 21.050kms

Data Provided By:

DRE

Cancel

Check Duplicate

Commit

## Reconciliation RFI's Entry Page

### New Reconciliation Entry

**Ref No:** RC/334 **Date:** 06-Aug-14 **HOA:** KSHIP

**Stretch:** 67B/0-23.9

**Section:** BASE AND SURFACE COURSES (Bituminous) **Job Code:** 5.03

**Job Description:** Providing and laying Dense Bituminous Macadam course grading 2 of Table 500-10 using paving bitumen complying to ...

**Quantity:** 200 cu.m

**Remarks:** Excess quantity is being deducted

**Data Provided By:** QS

[Cancel](#) [Check Duplicate](#) [Commit](#)

## Step 4: RFI Finalization / Submission

After entering an RFI, select the required RFI's and click on **Finalize** button. Now the RFI will be available for the final approval

Home > Project Menu > Submitted RFIs

[New Road-Works Entry](#) [New Structure Entry](#) [New Misc Entry](#) [New Reconciliation Entry](#)

**Filter By:** Status: ALL RFI Type: ALL RFI No:

**Stretch:** ALL **Chainage From:** **To:** **Section:** ALL **Job Code:** ALL **Period:** **To:**

RFI Date	RFI No	Job Code	Location	Quantity	
29-May-2014	H/11916	3.01.a	67A/0-23.52(13 to 13.3)	280.310 cu.m	<input checked="" type="checkbox"/>
11-Jun-2014	H/12008	3.07	67A/0-23.52(18.53 to 18.6)	44.800 Cum	<input checked="" type="checkbox"/>
30-May-2014	H/11922	3.01.a	67A/0-23.52(13.3 to 13.45)	182.810 cu.m	<input checked="" type="checkbox"/>
02-Jun-2014	H/11946	3.01.a	67A/0-23.52(13.45 to 13.6)	182.090 cu.m	<input checked="" type="checkbox"/>
10-Jun-2014	H/12000	3.01.a	67A/0-23.52(18.53 to 18.6)	123.200 cu.m	<input checked="" type="checkbox"/>
06-Jun-2014	H/11973	3.01.a	67A/0-23.52(18.8 to 18.95)	215.400 cu.m	<input checked="" type="checkbox"/>
09-Jun-2014	H/11985	2.04	67A/0-23.52(18.35 to 18.49)	420.000 Sqm	<input checked="" type="checkbox"/>
09-Jun-2014	H/11984	2.03.e.i	67A/0-23.52(18.49 to 18.64)	67.500 cu.m	<input checked="" type="checkbox"/>
06-Jun-2014	H/11970	2.04	67A/0-23.52(18.7 to 18.8)	300.000 Sqm	<input checked="" type="checkbox"/>
06-Jun-2014	H/11972	2.03.e.i	67A/0-23.52(18.8 to 18.95)	67.500 cu.m	<input checked="" type="checkbox"/>
09-Jun-2014	H/11991	3.05	67A/0-23.52(18.97 to 19.6)	161.880 cu.m	<input checked="" type="checkbox"/>
09-Jun-2014	H/11992	3.05	67A/0-23.52(20 to 20.52)	133.610 cu.m	<input checked="" type="checkbox"/>

Showing 1 to 12 of 111 entries

[Finalize](#) [First](#) [Previous](#) [2](#) [3](#) [4](#) [5](#) [Next](#) [Last](#)

Click to finalize the selected RFI

Select the RFIs which are needed to be finalized

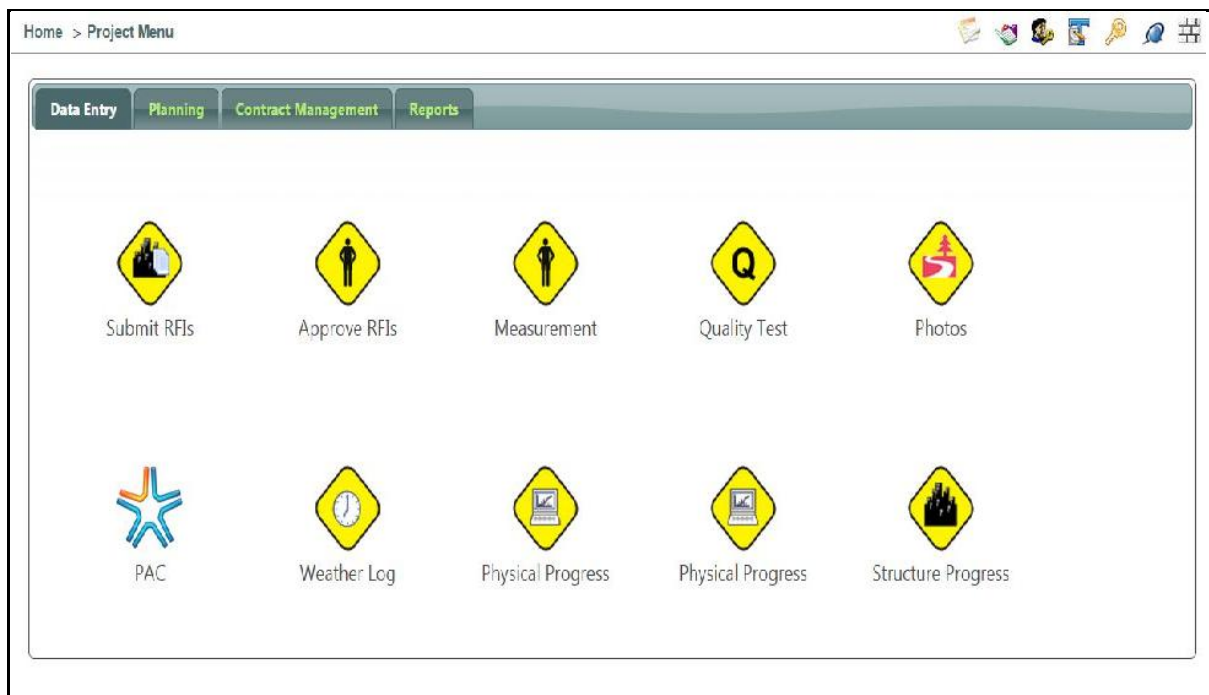


## 2. RFI Approval

Background: RFI's which are submitted/finalized will be available for the approval. Usually RFI approval or rejection is done by the Department Engineers or by the concerned Consultants people at the work site. Once the RFI is approved, it will be available for the Work Measurement/IPC (Billing).

### Step by Step procedure for RFI approval

Step 1: In **Data Entry** tab, click on **Approved RFI's** to enter a new RFI



## Step 2: Approve / Reject the RFI quantity

Home > Project Menu > Approved RFIs

Filter By

RFI Type: ALL RFI No: Period: From: To: Stretch: ALL Chainage From: To: Section: ALL Job Code: ALL

RFI Date	RFI No	Job Code	Location	Quantity	
30-Jan-2014	HGH/E/10906	2.01	64E/0 to 33.885 kms	0.112 Ha	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/10703	8.03.b)	64E/0 to 33.885 kms	1.8 Cum	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/10703	8.03.e)	64E/0 to 33.885 kms	0.186 T	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/10702	5.03	64E/0 to 33.885 kms	134.75 Cum	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/10701	5.02.a)	64E/0 to 33.885 kms	2695 Sqm	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/10700	5.05	64E/0 to 33.885 kms	18.375 Cum	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/107697	5.05	64E/0 to 33.885 kms	70 Cum	<input checked="" type="checkbox"/>
18-Jan-2014	HGH/E/10695	Level Checking	64E/0 to 33.885 kms	0 No	<input checked="" type="checkbox"/>
17-Jan-2014	QC/E/10682	DBM & SDBC	64E/0 to 33.885 kms	0 -	<input checked="" type="checkbox"/>
17-Jan-2014	HGH/E/10680	5.01	64E/0 to 33.885 kms	2730 Sqm	<input checked="" type="checkbox"/>
14-Jan-2014	HGH/D/10647	8.03.a)	64D/0 to 19.678 kms	1.8 Cum	<input checked="" type="checkbox"/>
13-Jan-2014	HGH/E/10619	8.03.a)	64E/0 to 33.885 kms	0.9 Cum	<input checked="" type="checkbox"/>

Showing 1 to 12 of 460 entries

First Previous 1 2 3 4 Next Last

Click here to approve the RFI

Click here to view the RFI

## Step 3: Approval Screen

Pavement RFI Approval

Ref No: 374 RFI Date: 11-Jan-15 Inspection Date: 22-Jan-15 HOA: HPRIDC

Stretch/Reach: Sarkaghat-Jahu/Km61.92-Km79.1 Chainage From: 75.05 km To: 75.075 km Layer: NA

Side: LHS

Section: Bill No. 7: DRAINAGE AND PROT Job Code: 7.09 BOQ Quantity: 0.000 Total Approved Qty: 0.000 Amount: Rs 0.00

Job Description: Providing and laying in position Plain Cement Concrete of Grade M15 in cut-off wall, headwall, Retaining wall, parapet wall, breast wall etc with all leads & lifts, complete as per drawings and Technical Specifications Sections 1400, 1500, 1700, 2100 and 2700. Providing and laying in position Plain Cement Concrete of Grade M15 in cut-off wall, headwall, Retaining wall, parapet wall, breast wall etc with all leads & lifts, complete as per drawings and Technical Specifications Sections 1400, 1500, 1700, 2100 and 2700.

L: B: D: Quantity: 45

Approval Remarks: 8th lift

Data Provided By: Approval Date: 1-Feb-15

List of QC Tests

Test	Regular Tests			Re-Confirmation Tests		
	Done	Passed	NC	Done	Passed	NC

Close Reject Check Duplicate Approve & Update Progress

Enter the final approval quantity

Click here to reject the RFI

Click here to approve the RFI



**Note:** Once the RFI is approved, this will be available for the quantity recommendation in Measurement. We can also attach photos, attachments and quality test for that particular RFI.

### 3. Measurement

Background: RFI's which are Approved will be available for the approval in Measurements. Usually RFI approval or rejection is done by the Department Engineers or by the concerned Consultants people at the work site. Once the RFI is approved, it will be available for the Measurement.

#### Step by Step procedure for Measurement

Step 1: In **Data Entry** tab, click on **Measurement**



## Step 2: Update Measurement in approved RFIs

Home > Project Menu > Measurements

**Update measurement in approved RFIs**

Filter By:

RFI Type: ALL RFI No: Period From: To: Status: ALL Approved  
 Stretch/Reach: ALL Chainage From: To: Section: ALL Job Code: ALL

RFI Date	RFI No	Job Code	Location	Quantity	Recommendation%	Bill%
20-Sep-15	test222	7.15	Sarkaghat-Jahu/Km61.92-Km79.1(0 to 0)	5,000 m3	100	0
20-Sep-15	str/new/03	(i)	Sarkaghat-Jahu/Km61.92-Km79.1(62.55 to 63.88)	8,500 Lm	100	0
01-Aug-15	test-10	9.01	Sarkaghat-Jahu/Km61.92-Km79.1(63 to 65)	999,000 m2	88	0
01-Aug-15	test-11	2.01	Sarkaghat-Jahu/Km61.92-Km79.1(65 to 66)	1500,000 m3	30	0
01-Aug-15	test-12	2.01	Sarkaghat-Jahu/Km61.92-Km79.1(63 to 64)	2000,000 m3	100	0
01-Aug-15	test-13	2.01	Sarkaghat-Jahu/Km61.92-Km79.1(62 to 65)	1499,000 m3	100	0
01 Aug 15	test 14	2.01	Sarkaghat-Jahu/Km61.92	500,000 m3	100	0

## Step 3: Approval Screen

**Pavement RFI Update**

Ref No: str/new/03 RFI Date: 20-Sep-15 Inspection Date: 21-Sep-2015 HOA: HPRIDC

Stretch/Reach: Sarkaghat-Jahu/Km61.92-Km79.1 Chainage From: 62.55 km To: 63.88 km Layer: NA

Side: BOTH

Section: EIT No. 9: MISCELLANEOUS AND T Job Code: (i) BOQ Quantity: 5000,000 m2 Total Approved Qty: 999,000 m2 Amount: Rs.374625.00

Job Description: 3.75 m wide x 3.75 m wide

L: B: D: Quantity: 8.5 m2

Approval Remarks:

Data Provided By: Approval Date: 23-Sep-2015

**Quality Control Test Results**

Test	Regular Tests			Re-Confirmation Tests		
	Done	Passed	NC	Done	Passed	NC
<b>Bituminous Macadam Tests</b>						
AIN / LAA	3	3	0	0	0	0
Binder content	0	0	0	0	0	0
FI & EI	1	1	0	0	0	0
Control of temp. of mix, agg & binder	0	0	0	0	0	0

**Recommendation for Billing**

Recommended: 100 %

Quantity: 8,5000 Lm

Amount: Rs.0.00

Note:

Close Check Duplicate Update Measurement

[Click here to approve the RFI](#)

**Note:** Once the RFI is approved, this will be available for the quantity recommendation and later for Work Measurement. We can also attach photos, attachments and quality test for that particular RFI.

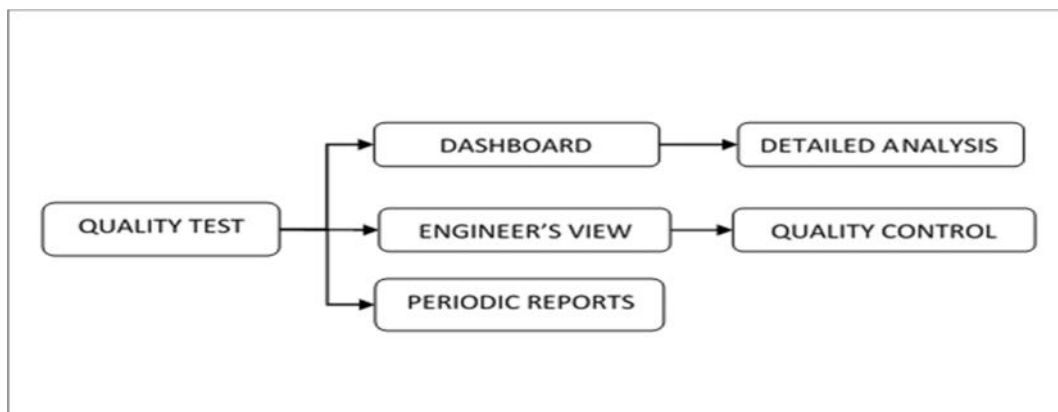
By default, recommended quantity will be displayed as 100%. The recommended quantity will be available for the current IPC generated. Remaining quantity will be available for the next IPC.

RFI list with Approved quantity, Recommended Quantity (in %) and Billed Quantity (in %) will be available in the Approved RFI section until the RFI is 100% recommended and billed.

#### 4.2.2 Quality Control Test Entries

Background: Quality Control Test or QC Test are carried out based on the MoRTH specifications or as per standards defined. Usually tests are carried out in presences of Department Engineers or Resident Engineers of the Consultants. The tests which are conducted at the site or lab or at plant can be update in the PMS.

QC Test data flow in PMS



Prerequisite data required for QC test entry

- Reach / Road Name
- Standard Test names
- Standard test types
- Structures with chainages

**Step by Step procedure for QC Test entry**

Step 1: In **Data Entry** tab, click on **Quality Test** to make an entry

(Navigation: **Home** → **Project Menu** → **Data Entry**)




Step 2: Click on **“New Test Entry (Pavement)”** to enter QC test data done for Pavement/Road Works

Click on **“New Test Entry (Structure)”** to enter QC test data done for Structure Works

New Test Entry (Pavement)
New Test Entry(Structure)

Home > Project Menu > Quality Test




New Test Entry (Pavement)
New Test Entry(Structure)

Filter By
Job Type: ALL
Reach/Stretch: All
Chainage From:  To: 
Test Type: ALL
Test Name: ALL
Date From: 
Date To:


Test Date	Ref No	Chainage	Test Type	Test Name	Tests	Passed	NC	RC?
06-Jul-2014	P-512	42A/0 to 53.650 Km From 35.27 to 35.27	Concrete (Strength)	M25 (RCC) 28 Days/design mix	1	1	0	N
30-Jun-2014	P-509	42A/0 to 53.650 Km From 35.27 to 35.27	Concrete (Strength)	M20 (RCC) 28 Days/design mix	2	2	0	N
25-Jun-2014	4947	42A/0 to 53.650 Km From 31.42 to 31.84	Subgrade	FDD after compaction	6	6	0	N
25-Jun-2014	4947	42A/0 to 53.650 Km From 31.42 to 31.84	Subgrade	Moisture Content after compaction	6	6	0	N
24-Jun-2014	4943	42A/0 to 53.650 Km From 31.42 to 31.84	Granular Sub Base	Atterberg Limits	2	2	0	N
24-Jun-2014	4943	42A/0 to 53.650 Km From 31.42 to 31.84	Granular Sub Base	Gradation	2	2	0	N
24-Jun-2014	P-507	42A/0 to 53.650 Km From 35.27 to 35.27	Concrete (Strength)	M20 (RCC) 28 Days/design mix	1	1	0	N
24-Jun-2014	P-508	42A/0 to 53.650 Km From 35.27 to 35.27	Concrete (Strength)	M20 (RCC) 28 Days/design mix	1	1	0	N
23-Jun-2014	4931	42A/0 to 53.650 Km From 38.35 to 38.75	Granular Sub Base	FDD after compaction	3	3	0	N
23-Jun-2014	4932	42A/0 to 53.650 Km From 38.35 to 38.75	Granular Sub Base	FDD after compaction	2	2	0	N
23-Jun-2014	4933	42A/0 to 53.650 Km From 30.7 to 31	Wet Mix Macadam	FDD after compaction	2	2	0	N
23-Jun-2014	4934	42A/0 to 53.650 Km From 30.7 to 31	Wet Mix Macadam	FDD after compaction	2	2	0	N
23-Jun-2014	4931	42A/0 to 53.650 Km From 38.35 to 38.75	Granular Sub Base	Moisture Content after compaction	3	3	0	N
23-Jun-2014	4932	42A/0 to 53.650 Km From 38.35 to 38.75	Granular Sub Base	Moisture Content after compaction	2	2	0	N
23-Jun-2014	4933	42A/0 to 53.650 Km From 30.7 to 31	Wet Mix Macadam	Moisture Content after compaction	2	2	0	N

Showing 1 to 15 of 5,923 entries

First Previous 1 2 3 4 5 Next Last



Click here to **edit**



Click here to **view**

## QC Test entry screen for Pavement/Road Works

New QC Test

Ref No: QC/223

Test Date: 11-Aug-14

Reconfirmatory Test ☐

Test Type: Wet Mix Macadam

Chainage: 42A/0 to 53.650 Km

From: 23 To: 24

Sl.No	Test Name	Tests Done	Passed	NC
1	AIV	5	5	0
2	Atterberg Limits	5	4	1
3	FDD after compaction	5	4	1
4	FI & EI	5	4	1
5	Gradation/individual gradations	5	4	1
6	Moisture Content after compaction	5	4	1
7	Proctor (Heavy Compaction)	5	4	1
8	Soundness	5	4	1
9	Water absorption	5	4	1

Tested By: Contractor

Tested At: Site

@Malur village limits

Remarks: Test results are satisfactory

Save Cancel

## QC Test entry screen for Structure Works

New QC Test

Ref No: Lab/221

Test Date: 11-Aug-14

Reconfirmatory Test ☐

Test Type: Concrete (Strength)

Chainage: 42A/0 to 53.650 Km

From: 12.33 To: 12.34

Sl.No	Test Name	Tests Done	Passed	NC
1	M15 (PCC) 28 Days/design mix	2	2	0
2	M15 (PCC) 7 Days/design mix	2	2	0
3	M20 (PCC) 28 Days/design mix			
4	M20 (PCC) 7 Days/design mix			
5	M20 (RCC) 28 Days/design mix			
6	M20 (RCC) 7 Days/design mix			
7	M25 (RCC) 28 Days/design mix			
8	M25 (RCC) 7 Days/design mix			
9	M30 (RCC) 28 Days/design mix			

Tested By: Contractor

Tested At: Lab

Lab Chainage @ 20km

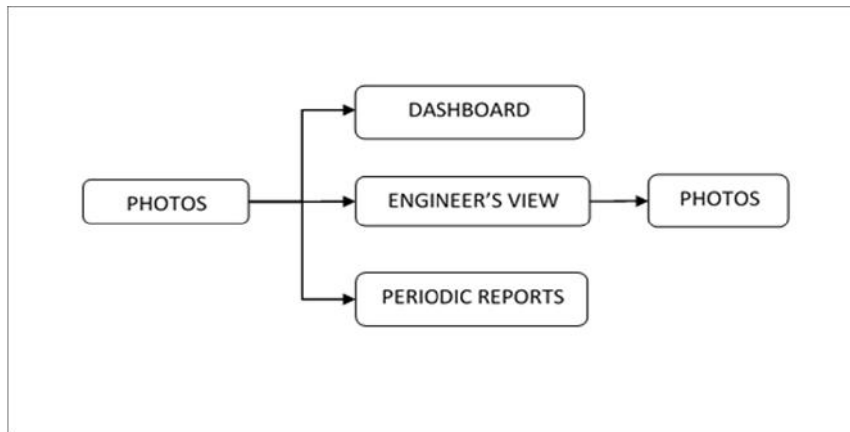
Remarks: Test results found out to be satisfactory

Save Cancel

## 4.2.3 Photos

Background: In this module, pictures taken at site, lab, plant or any work related photos can be uploaded in the PMS.

Photos upload Data flow in PMS

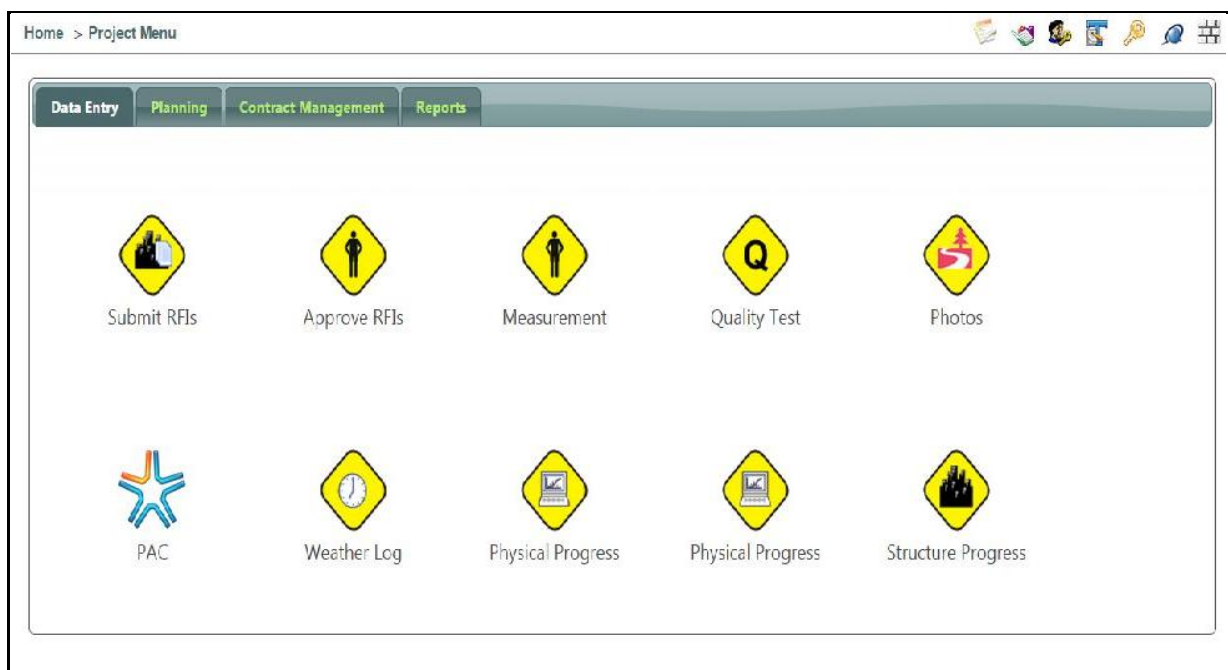


Prerequisite data required for Photo upload

- Reach / Road Name
- Structures with chainages
- Work Type

**Step by Step procedure for Photo uploads**

Step 1: In **Data Entry** tab, click on **Photos** to make an entry





## Step 2:

Click here to select the photos to be displayed on the dashboard

Click here to upload new photos

Home > Project Menu > Photos

Filter By: Reach/Stretch: All Type: All Work Type: All Period: From: To:

Image	Date	Type	Work Type	Location	Remarks
	19-Aug-2014	General	General	T8/0-31.784km Distance:12.024 Kms	PSC Girder Casting work is in progress
	19-Aug-2014	General	General	T8/0-31.784km Distance:12.024 Kms	PSC Girder Casting work is in progress
	12-Aug-2014	General	General	T8/0-31.784km Distance:12.024 Kms	PSC Girder reinforcement work under progress
	06-Aug-2014	General	General	T8/0-31.784km	TL Visited the site on 22nd July-14
	25-Jun-2014	General	DBM	T8/0-31.784km	DBM Laying 17+100 to 17+700 -RHS
	16-Jun-2014	General	DBM	T8/0-31.784km Distance:20.92 Kms	DBM Laying under progress from ch.20+920 to 21+340
	09-Jun-2014	General	Slab	T8/0-31.784km Distance:6.619 Kms	Box culvert slab concreting work under progress
	26-May-2014	General	BC	T8/0-31.784km Distance:17.2 Kms	BC Laying under progress at ch.17+720 to 19+400 LH
	26-May-2014	General	BC	T8/0-31.784km Distance:17.2 Kms	BC Laying under progress at ch.17+720 to 19+400 LH
	26-May-2014	General	BC	T8/0-31.784km Distance:17.2 Kms	BC Laying under progress at ch.17+720 to 19+400 LH
	26-May-2014	General	BC	T8/0-31.784km Distance:17.2 Kms	BC Laying under progress at ch.17+720 to 19+400 LH

Showing 1 to 12 of 122 entries

First Previous 1 2 3 4 5 Next Last

Click here to edit the photo details

Click here to delete the uploaded photos

Click here to view the uploaded photos

## Step 3: Click on **Photo Upload** button to upload the photos

**Photo Upload**

Select Photo(s): **Attach File**

Date Taken: 25-Aug-2014

Photo Type: General

Group Code: C&G

Reach/Stretch Type: ☒ Road-Works ☐ Structures ☐ Miscellaneous

Reach/Stretch: None Chainage: Kms

Section: None

Remarks:

**Upload** **Cancel**

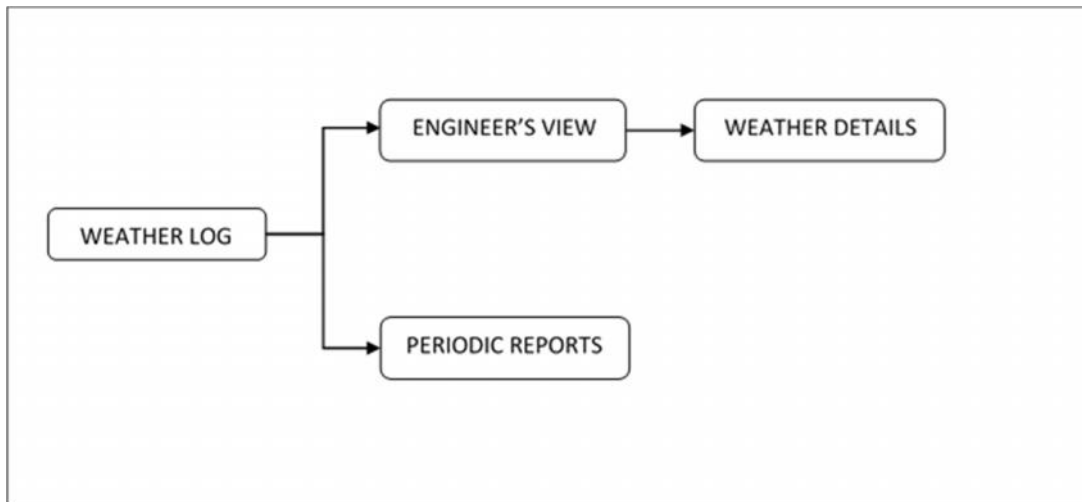
Click on **Attach file** to add the photos, fill the relevant details of the photo and click on **Upload** to complete the photo upload.



#### 4.2.4 Weather Log

Background: In this module daily weather parameters like Temperature, Rainfall or Snowfall details can be updated. If there is delay in the work due to Rainfall or snowfall can be updated along with how many work hours affected for that day.

Weather Log data flow in PMS



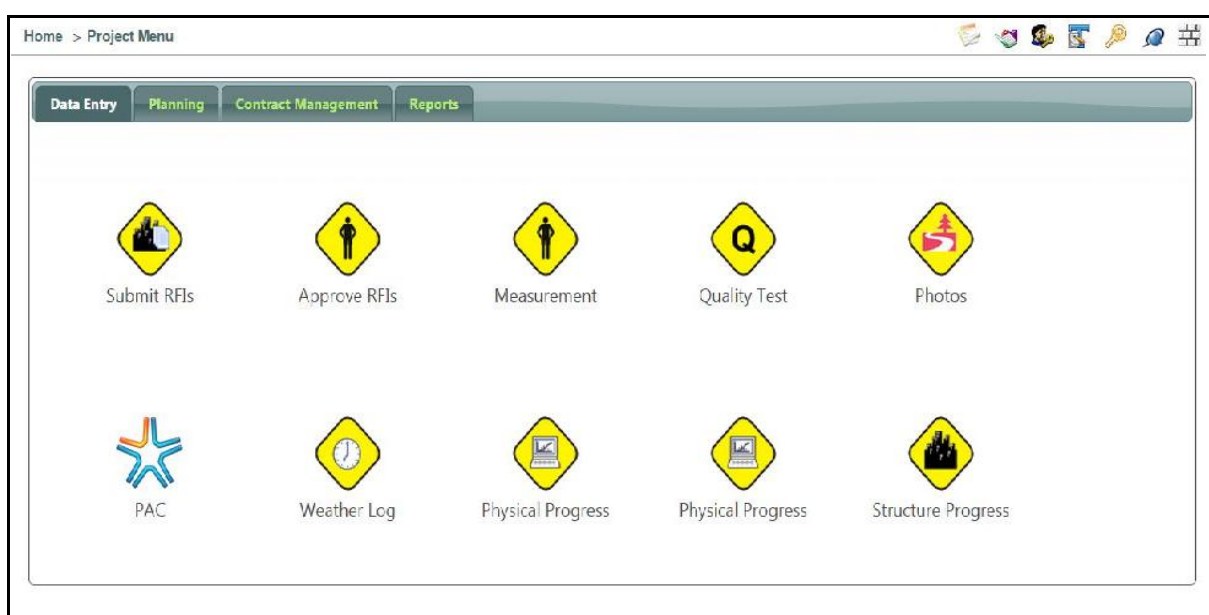
Prerequisite data required for Weather log entry

- Reach/Road Name

#### Step by Step procedure for Weather Log entry

Step 1: In "**Data Entry**" tab, Click on "**Weather Log**" to make an entry

(Navigation: Home → Project Menu → Data Entry)



## Step 2: List of weather entry screen

Click here to add a new entry

Home > Project Menu > Weather Log

Filter By : Stretch

[Add New](#)

[Previous Month](#)

**WEATHER LOG ENTRIES FOR THE MONTH OF AUG-2014**

Area Code	Date	Temperature (c)		Rainfall		Reasons	Remarks	Reported By			
		Max	Min	In mm	In Hrs						
T8/0-31.784km	18-Aug-2014 09:00	28.1	23.1	0	0						
T8/0-31.784km	17-Aug-2014 09:00	27.3	22.8	12	0						
T8/0-31.784km	16-Aug-2014 09:00	28.1	23.1	8	0						
T8/0-31.784km	15-Aug-2014 09:00	27.5	22.8	0	0						
T8/0-31.784km	14-Aug-2014 09:00	27.9	22.6	0	0						
T8/0-31.784km	13-Aug-2014 09:00	29	23.8	0	0						
T8/0-31.784km	12-Aug-2014 09:00	29.8	24.3	0	0						
T8/0-31.784km	11-Aug-2014 09:00	27.1	23.3	0	0						
T8/0-31.784km	10-Aug-2014 09:00	28.6	23.4	10	0						
T8/0-31.784km	09-Aug-2014 09:00	27.8	23.1	0	0						
T8/0-31.784km	08-Aug-2014 09:00	28.1	23.8	0	0						
T8/0-31.784km	07-Aug-2014 09:00	27.3	23	20	0						
T8/0-31.784km	06-Aug-2014 09:00	26.4	23.8	10	0						
T8/0-31.784km	05-Aug-2014 09:00	27.8	23.1	20	0						
T8/0-31.784km	04-Aug-2014 09:00	27.1	23.6	14	0						

Showing 1 to 15 of 18 entries

First Previous 1 2 Next Last

Click here to edit the details

Click here to view the details

Click here to delete

## Step 3: Add new Weather entry screen

**New Weather Log**

Area Code :

Date \* :

Maximum Temperature(in C) \* :

Minimum Temperature(in C) \* :

Rainfall(in mm) :

Hours Affected :

Reasons :

Remarks :

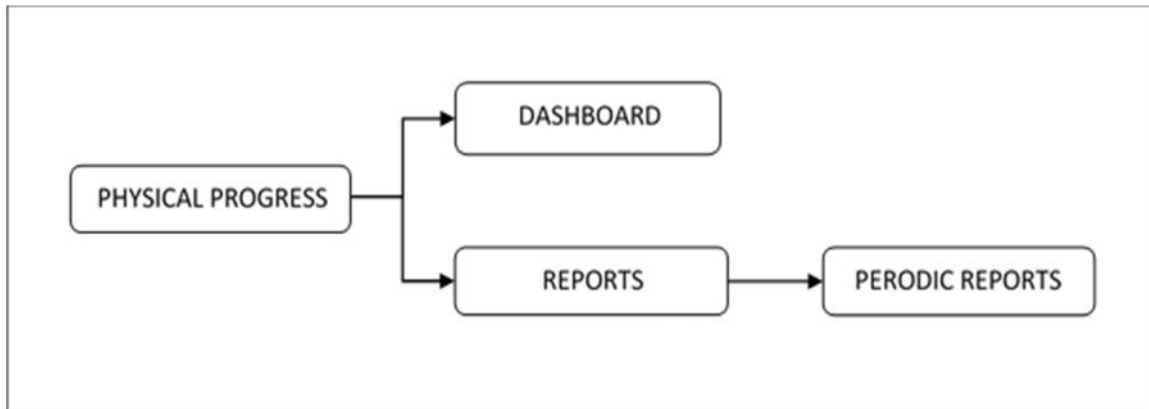
Reported By:

[Cancel](#) [Save](#)

## 4.2.5 Physical Progress

Background: Day to day layer-wise physical progress can be updated here.

Physical progress data flow in PMS



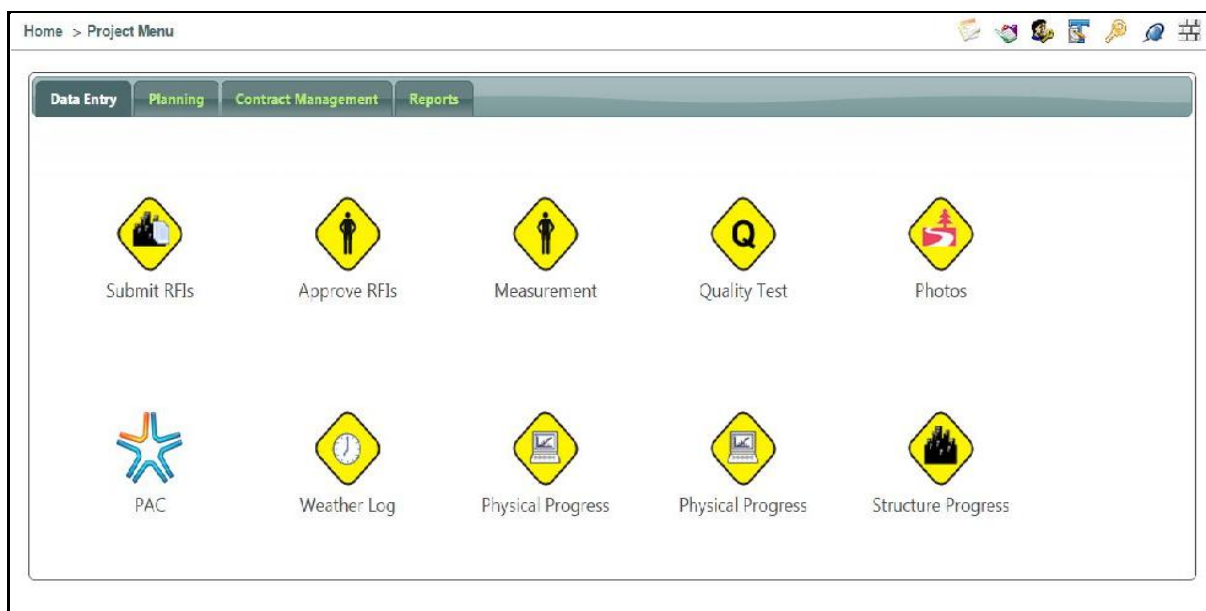
Prerequisite data required for Physical Progress update

- Reach/Road Name
- Scope of Work
- Road Layers

### Step by Step procedure for Physical progress update

Step 1: In “**Data Entry**” tab, Click on “**Physical Progress**” to make an entry

(Navigation: Home → Project Menu → Data Entry)



Step 2: Select the reach/road name for which physical progress to be updated

Physical Progress

Select Reach: 19C/Kabbur-Chikodi/Km0.00-Km18.414 [View Stripchart](#)

Road Work at 19C/Kabbur-Chikodi/Km0.00-Km18.414

Show Range From : To

Village Limit KM

Pavement Width

Chainages

UPGRADATION Not Included

SG GSB WMM DBM BC SDBC Shoulder

[Update Physical Progress](#)

Click here to update the Physical progress

Step 2: Click on “**Update Physical Progress**”

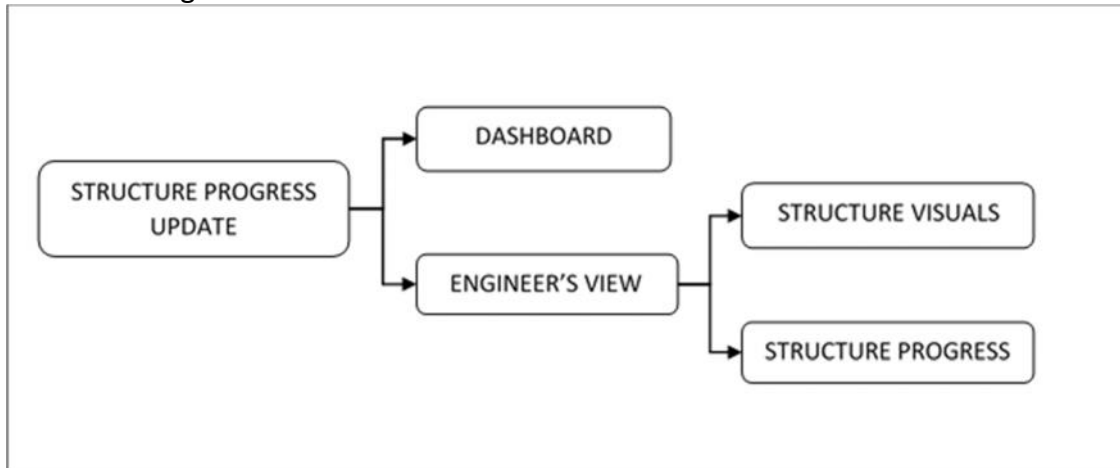
Date: 27-Aug-2014 Select HOA KSHIP Select Layer: BC Select Lane: BOTH

From: To: Short Note: [Submit](#)

#### 4.2.6 Structure Progress

Background: As and when the major activities are carried out for the major structures, same can be updated in the PMS.

Structure Progress data flow in PMS



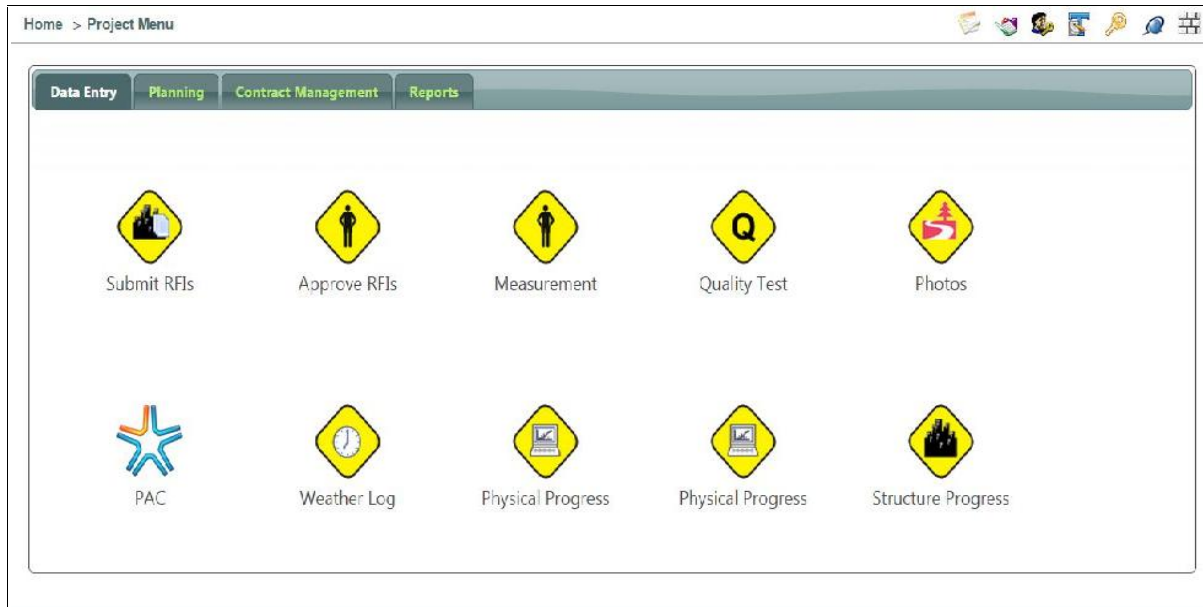
Prerequisite data required for Structure progress update

- Structure Type
- Structure Chainage
- No of Vents/Piers/Rows
- Foundation Type

## Step by Step procedure for Structure Progress update

Step 1: In **"Data Entry"** tab, Click on **"Structure Progress"** to make an entry

(Navigation: Home → Project Menu → Data Entry)



Step 2: Select the structure for which progress needed to be updated



Click here to select the structure

### Step 3: Update the structure work activities that are completed

**Update Progress**

Structure: **HPC@T8-Km 13+546** Description: **New Construction** Structure Type: **Pipe Culvert**

Date:  Remarks:

Legends Completed

**LHS**

- ☒ Excavation
- ☒ PCC M-15
- ☒ RCC M-20
- ☒ Pipe Laying
- ☐ Parapet
- ☐ Backfilling

**RHS**

- ☐ Excavation
- ☐ PCC M-15
- ☐ RCC M-20
- ☐ Pipe Laying
- ☐ Parapet
- ☐ Backfilling

Cancel Save

Select the major work activities listed which are needed to be updated.

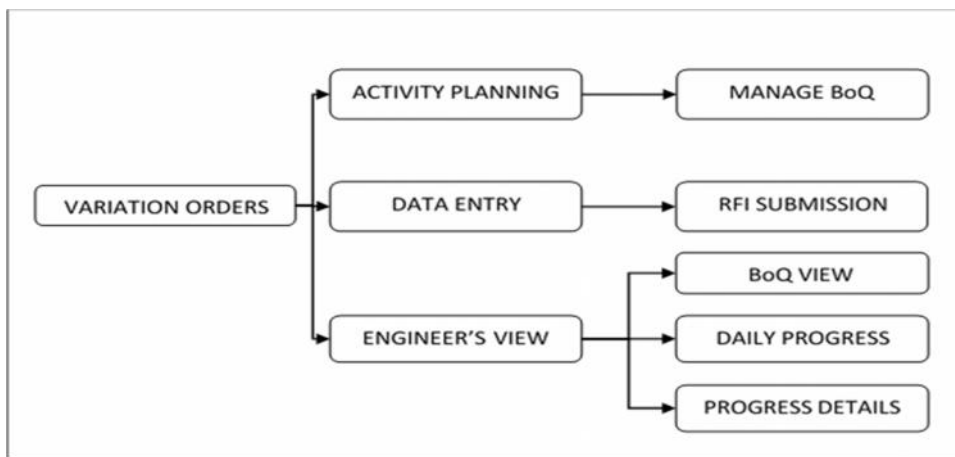
Note: Once the activity is selected and saved. Later the same activity cannot be unselected.

## 4.3 CONTRACT MANAGEMENT

### 4.3.1 Variation Order

Background: In this module, change in the BoQ Item quantity or in the rate can be updated in the PMS.

Data flow of Variation Order in PMS



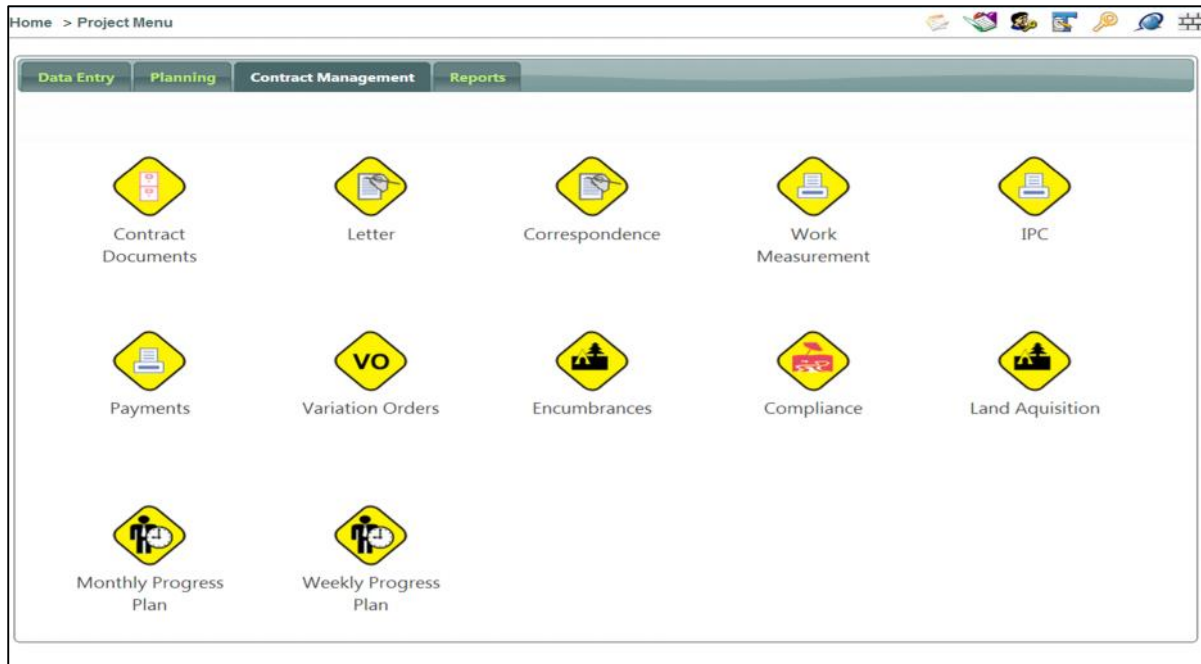
Prerequisite data required for Variation Order

- BoQ
- Milestone

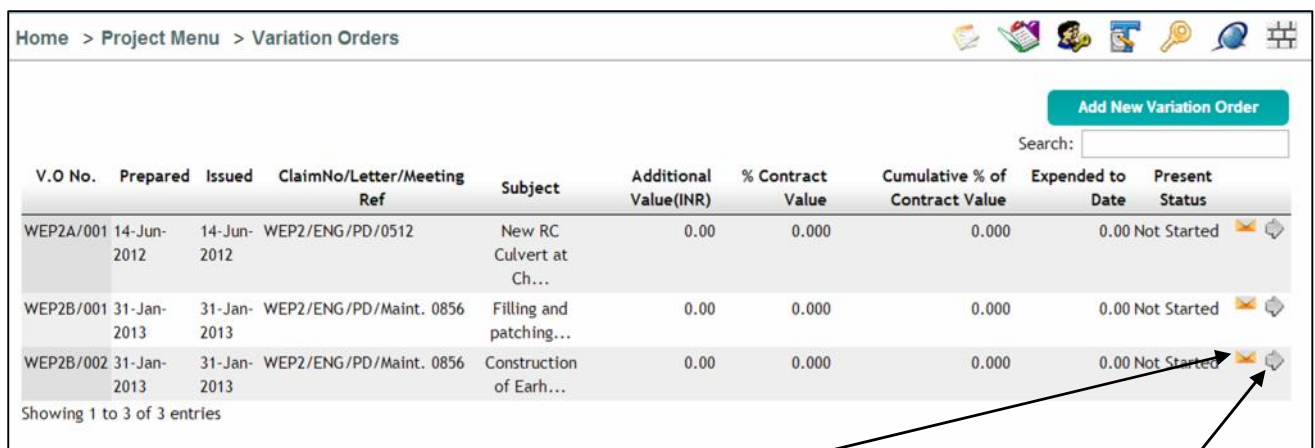


## Step by Step procedure for adding Variation Order

Step 1: In **"Contract Management"** tab, Click on **"Variation Orders"** to make an entry  
(Navigation: Home → Project Menu → Contract Management)



Step 2: Click on Add New Variation Order



The screenshot shows the 'Variation Orders' page. At the top right, there is a green button labeled 'Add New Variation Order'. Below the button is a search bar. The main part of the page is a table with the following columns: V.O No., Prepared, Issued, ClaimNo/Letter/Meeting Ref, Subject, Additional Value(INR), % Contract Value, Cumulative % of Contract Value, Expended to Date, and Present Status. The table contains three entries. The first entry is highlighted with a red border.

V.O No.	Prepared	Issued	ClaimNo/Letter/Meeting Ref	Subject	Additional Value(INR)	% Contract Value	Cumulative % of Contract Value	Expended to Date	Present Status
WEP2A/001	14-Jun-2012	14-Jun-2012	WEP2/ENG/PD/0512	New RC Culvert at Ch...	0.00	0.000	0.000	0.00	Not Started
WEP2B/001	31-Jan-2013	31-Jan-2013	WEP2/ENG/PD/Maint. 0856	Filling and patching...	0.00	0.000	0.000	0.00	Not Started
WEP2B/002	31-Jan-2013	31-Jan-2013	WEP2/ENG/PD/Maint. 0856	Construction of Earh...	0.00	0.000	0.000	0.00	Not Started

Showing 1 to 3 of 3 entries

Click here to View the VO details  
Click here to view the attached VO correspondence (if attached)

### Step 3: Add the VO details and click on “Add” to add new VO

Add New Variation Order

VO No \*:

Ref No:

Date Prepared: 02-Sep-2014

Date Issued: 02-Sep-2014

Date Ref: 02-Sep-2014

Subject \*:

Description:

Search:

Subject	Letter No	Ref
Sample	227	Sample
Sample	227	Sample
Sample	227	Sample
Submission of IPC No.07	477	Submission of IPC No.07

Showing 1 to 5 of 567 entries

First Previous 1 2 3 4 5 Next Last

Cancel Add

### Step 4: VO entry screen

Home > Project Menu > Variation Orders > Variation Order Details

VO No: WEP2A/001  
VO Description: proposed through letter WEP2/ENG/PD/0512 dated:14.06.2012 (KRDCL proposed new structure, but not executed before tendering the contract) and variation amount proposed is 25,86,000  
Date Prepared: 14-Jun-2012  
Ref Type: LETTER  
Status: DRAFT  
Additional Value: Rs. 387500.00  
% of Contract Value: 0.042  
Prepared By: KSHIP User

Ref No: WEP2/ENG/PD/0512  
Subject: New RC Culvert at Ch. 20+912 (Link T8)  
Date Issued: 14-Jun-2012  
Ref Date: 14-Jun-2012  
VO Status: Completed  
Expended Till Date: Rs. 1673567.25  
Date Approved: --  
Approved By: --

Edit VO Details Approve VO Add New Claim Add New VO Item

Item Name	Description	Unit	Quantity	Rate	Amount	Remarks
2.01	Clearing and grubbing for road land, embankment, drain, cross drainage structures complete as per Technical Specification clause 201.	ha	10	30000	300000.00	-NA-
3.02	Construction of embankment with approved material from borrow areas complete as per drawing and Technical Specification clause 303 with all leads and lifts complete.	Cum	500	175	87500.00	-NA-

Click here to edit VO details

Click here to approve VO

Click here to add new Claims

Click here to add new VO items

### Add new claim screen

Add New Claim

Claim Request \*:  day(s)

Select Milestone: LINK-T8 (MS-01) ▼

Remarks :

Cancel

Save

### Add new VO item screen

To add the excess quantity for the existing BoQ Item

Add New VO Item

☒ Excess Quantity in Existing Item ☐ New Item (Not Existing in BOQ)

Select BOQ Section: BILL NO. 2 - Site Clearance ▼

Select BOQ Item: 2.01 ▼

Additional Quantity \*:

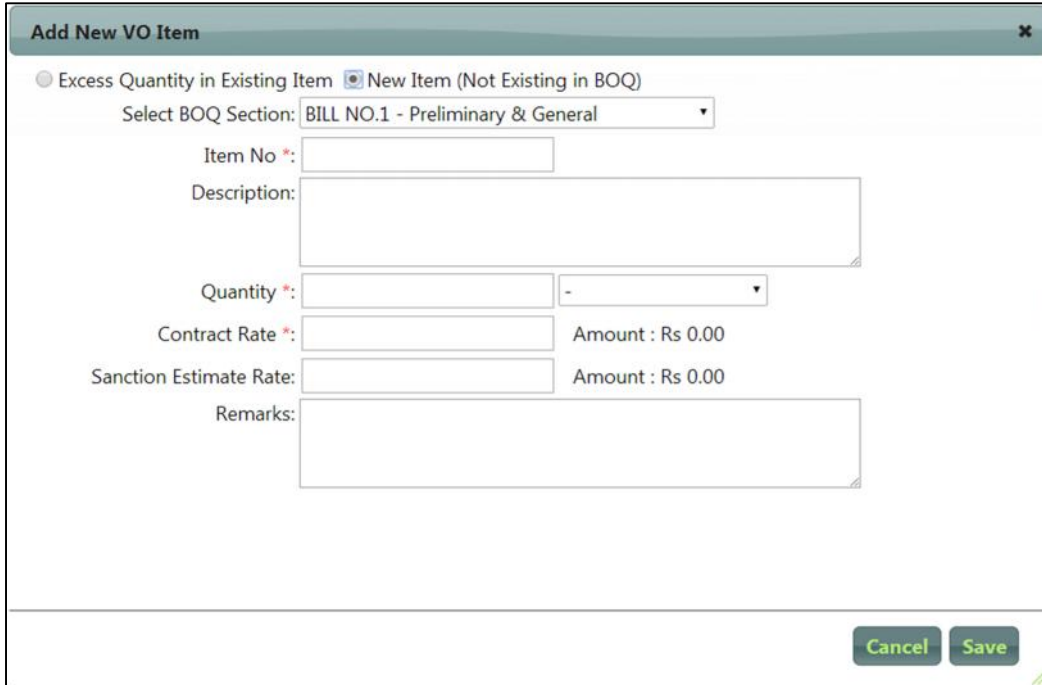
Remarks:

Cancel

Save

Note: Existing BoQ Item with new rates to be added as new item

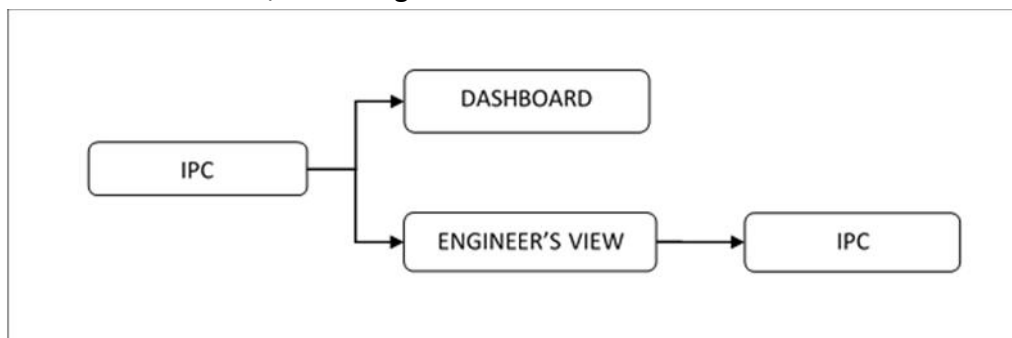
To add new BoQ item with new rates



### 4.3.2 Work Measurement

Background: This module is used create work measurement with recommended RFI quantities.

Work Measurement/IPC Billing data flow in PMS



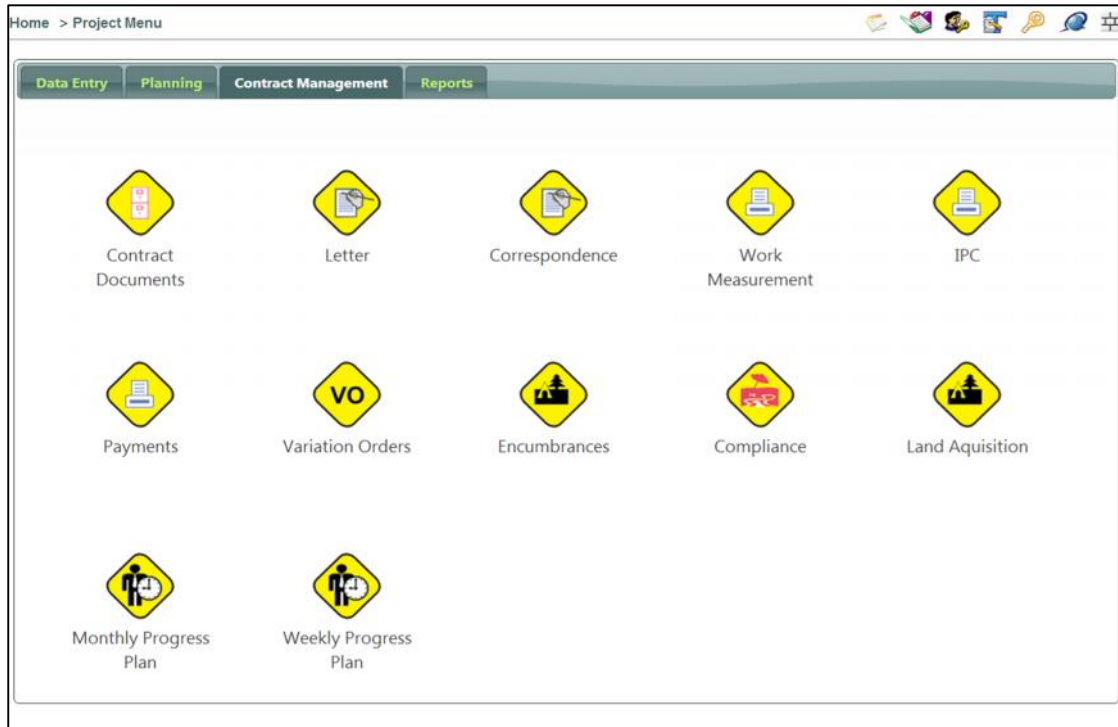
Prerequisite data required for IPC Billing

- Approved RFI with Recommended quantities
- Royalty factor and rate
- Escalation base index and current index price

Step by Step Procedure for creating Work Measurement/IPC

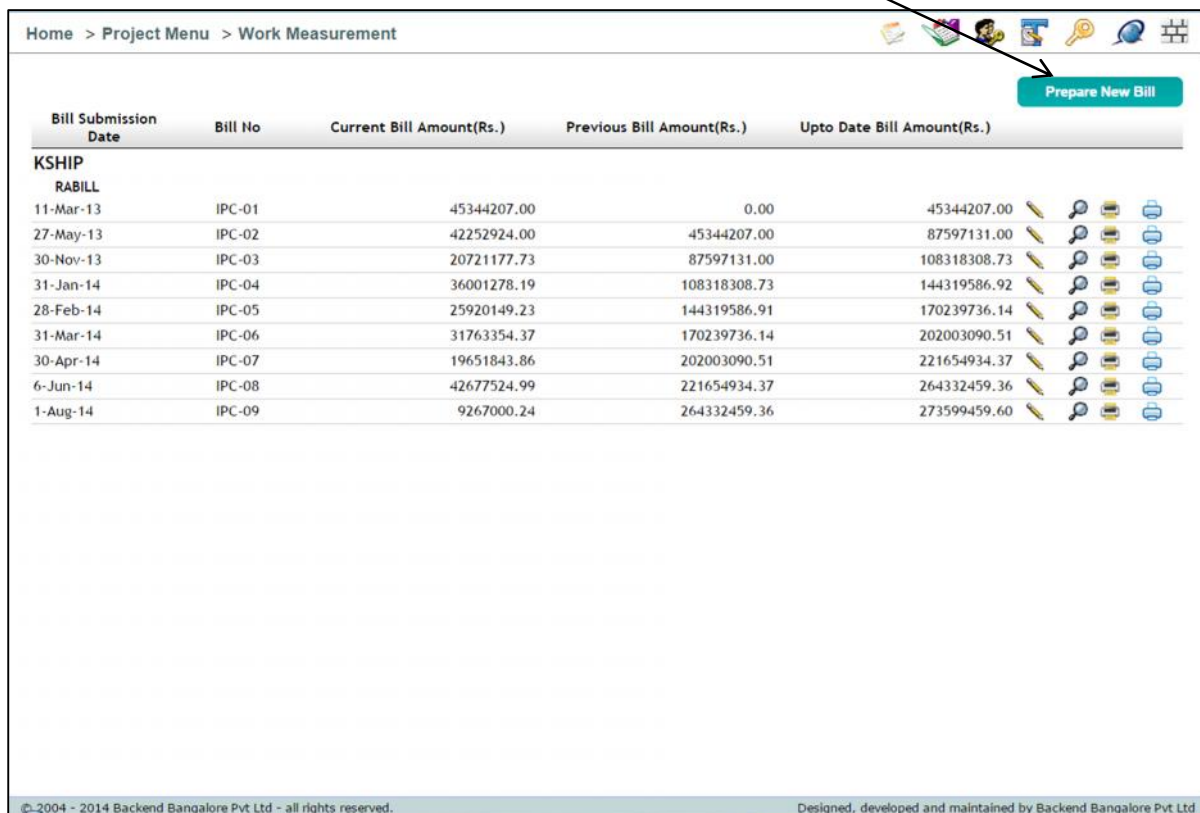
Step 1: In “**Contract Management**” tab, Click on “**Variation Orders**” to make an entry

(Navigation: Home → Project Menu → Contract Management)



Step 2: List of Work Measurement created

Click here to prepare new Bill



The screenshot shows the 'Work Measurement' interface with a table of bills. A button labeled 'Prepare New Bill' is visible in the top right corner. The table contains the following data:

Bill Submission Date	Bill No	Current Bill Amount(Rs.)	Previous Bill Amount(Rs.)	Upto Date Bill Amount(Rs.)
<b>KSHIP</b>				
<b>RABILL</b>				
11-Mar-13	IPC-01	45344207.00	0.00	45344207.00
27-May-13	IPC-02	42252924.00	45344207.00	87597131.00
30-Nov-13	IPC-03	20721177.73	87597131.00	108318308.73
31-Jan-14	IPC-04	36001278.19	108318308.73	144319586.92
28-Feb-14	IPC-05	25920149.23	144319586.91	170239736.14
31-Mar-14	IPC-06	31763354.37	170239736.14	202003090.51
30-Apr-14	IPC-07	19651843.86	202003090.51	221654934.37
6-Jun-14	IPC-08	42677524.99	221654934.37	264332459.36
1-Aug-14	IPC-09	9267000.24	264332459.36	273599459.60

Creating new Bill screen

**Create New Bill** [X]

Bill No:

Bill Date:

Include RFI: ☒ From:  To:

Unbilled Measurements till bill date will be included in this bill

Select to include all approved RFI's for the entered duration

Step 3: The created bill will be in draft, so any addition or deduction or Price adjustment can be done.

Click here to make Price Adjustment

Click here to finalize the Work Measurement & to create IPC

Click here to manually add RFI

Home > Project Menu > Work Measurement > Bill Details

DRAFT

**Karnataka State Highways Improvement Project**  
**KSHIP-II/STG1/ICB/WEPI - Upgradation of the Road from Hoskote (Km.0+000) to Chintamani Bypass (Km 52+400) of SH-82**

Bill No: **IPC 03**      Bill Submission Date: **05-May-12**  
 Agreement No: **KSHIP-II/STG1/ICB/WEPI**      Contractor: **M/s Lanco Infratech Ltd**

Work done amount in this bill: Rs. **1,80,41,365.60**  
 Other Addition (Total): Rs. **26,92,350.00**  
 Other Deduction (Total): Rs. **41,97,856.00**  
 Grand Total: Rs. **1,65,35,859.60**

[Print Summarized Bill Progress](#)  
 [Print Detailed Bill Progress](#)  
 [Edit Bill Details](#)  
 [Price Adjustment](#)  
 [Finalize & Create IPC](#)  
 [Include RFI](#)

Item No	Description	Unit	Rate	Previous Billed Qty.	Present Billed Qty.	Total Uptodate Qty.	Amount
<b>BOQ Section:PRELIMINARY &amp; GENERAL</b>							
a)	Filling and Patching of Potholes as per Technical Specification Cl. 3004.2. a) Depth upto 100mm	Sqm	184.70	1945.6000	599.1650	2544.7650	110665.78
b)	Filling and Patching of Potholes as per Technical Specification Cl. 3004.2. c) More than 100mm	Sqm	215.50	415.8250	483.8700	899.6950	104273.99
<b>Sub Total: Rs. 214939.76</b>							
<b>BOQ Section:SITE CLEARANCE</b>							
2.01	Clearing and grubbing for road land, embankment, drain, cross drainage structures complete as per Technical Specification clause 201.	ha	13498.85	0.1085	0.0900	0.1985	1214.90
a)	Brick Masonry/Stone Masonary	Cum	61.55	77.4150	137.5810	214.9960	8468.11
b)	Stone Slab in Structure	Sqm	142.00	64.2200	91.2500	155.4700	12957.50
e) i)	Bituminous Pavement/Granular Pavement Courses. As per Technical Sepcification Caluse 2.02	Cum	49.65	61.2130	1163.1580	1224.3710	57750.79
2.04	Scarification existing Bituminous Surface as per Technical Specification. Cl 305.4.3.	Sqm	9.95	2679.0500	1287.2500	3966.3000	12808.14
<b>Sub Total: Rs. 93199.44</b>							
<b>BOQ Section:EARTHWORKS</b>							
a)	In all types of Soil	Cum	51.65	7704.8790	10221.4120	17926.2910	527935.93
c)	Hard Rock (controlled blasting)	Cum	369.40	0.0000	63.7460	63.7460	23547.77
3.02	Construction of embankment with approved material from borrow areas complete as per drawing and Technical Specification clause 305 with all leads and lifts complete	Cum	149.95	3088.2980	1702.5630	4790.8610	255299.32
3.03	Construction of embankment with available material obtained from Road way excavation complete as per drawing and technical specification clause 305 with all leads and lifts complete	Cum	59.60	1295.6870	48.9330	1344.6200	2916.41
3.04	Construction of subgrade with approved material from approved borrow areas as per Technical Specification clause 305 including all leads and lifts complete.	Cum	162.85	9495.2670	4177.3230	13672.5900	68027.57
3.07	Construction of Subgrade with approved available material obtained from Road way excavation complete as per drawing and technical specification clause 305 including leads and lifts complete	Cum	59.60	2260.7990	189.9780	2450.7770	11322.69
<b>Sub Total: Rs. 1501299.17</b>							

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Click here to include/remove RFI of a specific BoQ Item



## Include New RFI screen

Item Additions

Job Code : 2.01

Search:

RFI Date	RFI No	Job Code	Location	Approved Qty	Recommended %	Billed %	Current Bill Qty	
04-Jun-2012	H-2753	2.01	67B/0-23.9(16 to 16.1)	0.0805635 ha	100	0	0.0805635	<input type="checkbox"/> <input checked="" type="checkbox"/>
04-Jun-2012	H-2749	2.01	67B/0-23.9(16.1 to 16.3)	0.1582745 ha	100	0	0.1582745	<input type="checkbox"/> <input checked="" type="checkbox"/>
02-Jun-2012	H-2732	2.01	67B/0-23.9(15.5 to 15.75)	0.145702 ha	100	0	0.145702	<input type="checkbox"/> <input checked="" type="checkbox"/>
02-Jun-2012	H-2734	2.01	67B/0-23.9(15.85 to 16)	0.106359 ha	100	0	0.106359	<input type="checkbox"/> <input checked="" type="checkbox"/>
01-Jun-2012	H-2714	2.01	67B/0-23.9(14.55 to 14.8)	0.1637025 ha	100	0	0.1637025	<input type="checkbox"/> <input checked="" type="checkbox"/>
30-May-2012	H-2690	2.01	67B/0-23.9(13.2 to 13.5)	0.159731 ha	100	0	0.159731	<input type="checkbox"/> <input checked="" type="checkbox"/>
30-May-2012	H-2691	2.01	67B/0-23.9(13.5 to 13.7)	0.127209 ha	100	0	0.127209	<input type="checkbox"/> <input checked="" type="checkbox"/>
29-May-2012	H-2674	2.01	67B/0-23.9(13.04 to 13.2)	0.0822305 ha	100	0	0.0822305	<input type="checkbox"/> <input checked="" type="checkbox"/>
25-May-2012	H-2618	2.01	67B/0-23.9(10.83 to 10.88)	0.031206 ha	100	0	0.031206	<input type="checkbox"/> <input checked="" type="checkbox"/>
22-May-2012	H-2529	2.01	67B/0-23.9(13.15 to 13.24)	0.103687 ha	100	0	0.103687	<input type="checkbox"/> <input checked="" type="checkbox"/>
21-May-2012	H-2496	2.01	67B/0-23.9(12.86 to 13.15)	0.1727635 ha	100	0	0.1727635	<input type="checkbox"/> <input checked="" type="checkbox"/>
21-May-2012	H-2521	2.01	67B/0-23.9(7.7 to 7.83)	0.035475 ha	100	0	0.035475	<input type="checkbox"/> <input checked="" type="checkbox"/>
17-May-2012	H-2429	2.01	67B/0-23.9(13 to 13.04)	0.02936 ha	100	0	0.02936	<input type="checkbox"/> <input checked="" type="checkbox"/>
16-May-2012	H-2401	2.01	67B/0-23.9(14.38 to 14.53)	0.0907415 ha	100	0	0.0907415	<input type="checkbox"/> <input checked="" type="checkbox"/>
16-May-2012	H-2403	2.01	67B/0-23.9(14.39 to 14.455)	0.0456058 ha	100	0	0.0456058	<input type="checkbox"/> <input checked="" type="checkbox"/>
16-May-2012	H-2405	2.01	67B/0-23.9(14.465 to 14.55)	0.0574378 ha	100	0	0.0574378	<input type="checkbox"/> <input checked="" type="checkbox"/>
14-May-2012	H-2367	2.01	67B/0-23.9(10.5 to 10.6)	0.0601308 ha	100	0	0.0601308	<input type="checkbox"/> <input checked="" type="checkbox"/>
14-May-2012	H-2374	2.01	67B/0-23.9(12.83 to 12.86)	0.017195 ha	100	0	0.017195	<input type="checkbox"/> <input checked="" type="checkbox"/>
14-May-2012	H-2364	2.01	67B/0-23.9(12.93 to 13)	0.048162 ha	100	0	0.048162	<input type="checkbox"/> <input checked="" type="checkbox"/>

Showing 1 to 19 of 19 entries (filtered from 402 total entries)

Close Include

## Price Adjustment Screen

Price Adjustment

Summary PA 3&4 PA B No.5 PA B No 6 & 7 PA B No 1,2,8,9,10,11 &12 Price Adjustment Calculation Royalty Amount Work Done

Name of Work: Upgradation of the Road from Hoskote (Km.0+000) to Chintamani Bypass (Km 52+400) of SH-82  
Consultant: M/S EGIS INTERNATIONAL JV WITH AARVEE ASSOCIATES AND EGIS INDIA  
Contractor: M/s Lanco Infratech Ltd

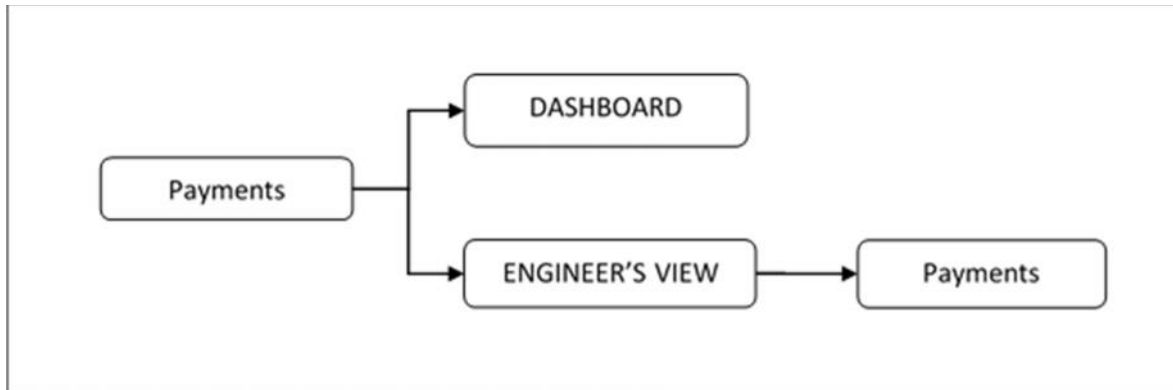
Price Adjustment for IPC 03			
Description	Value upto Previous Bill (Rs.)	Value in IPC 03(Rs.)	Value till IPC 03 (Rs.)
PA 3&4	0	0	0
PA B No.5	0	0	0
PA B No 6 & 7	0	0	0
PA B No 1,2,8,9,10,11 &12	0	0	0
Total	0	0	0

Add to the Bill

### 4.3.3 Payments

Background: This module is used to add the IPC payment details.

Payments data flow in PMS



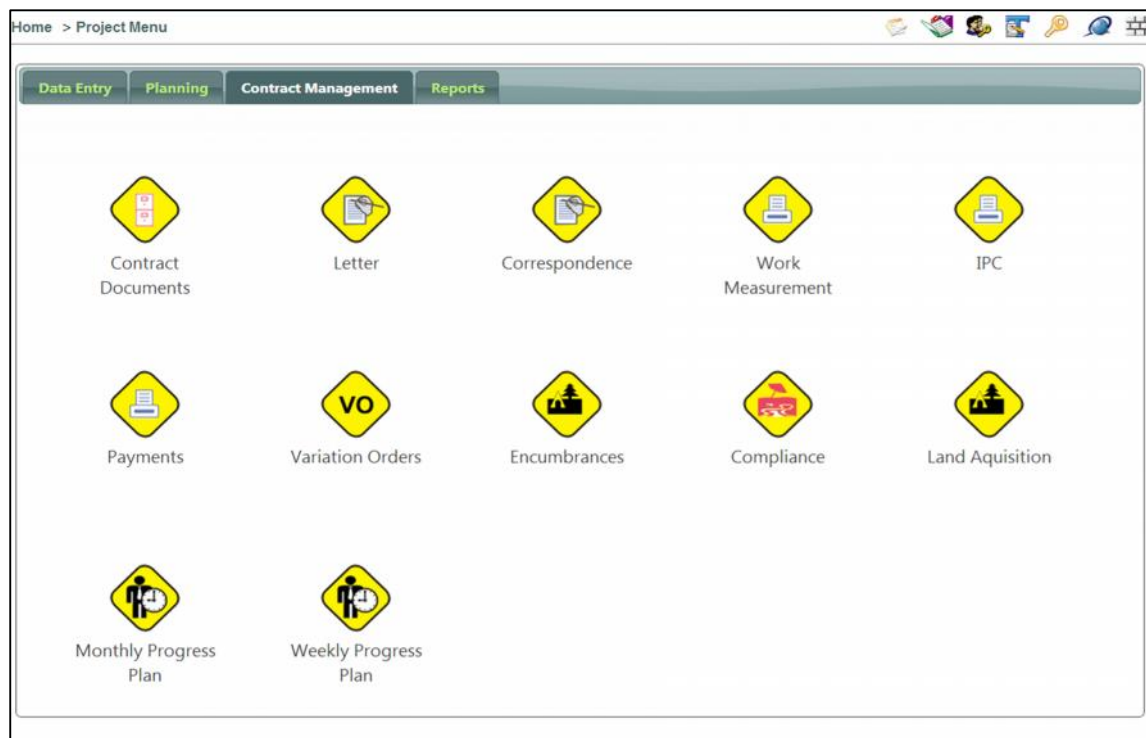
Prerequisite data required for Payments

- Finalized IPC

Step by step procedure

Step 1: In “**Contract Management**” tab, Click on “**Payments**” to make an entry

(Navigation: Home → Project Menu → Contract Management)



## Step 2: List of Payment screen

Click here to add new Payment

Home > Project Menu > Payments

Total Bill Amount: Rs 98899237.27 Amount Paid: Rs 127449249.00

[Add New Payment](#)

Search:

IPC No.	Submitted On	Bill Amount(Rs.)	Payment Amount(Rs.)	Payment Date	Payment Ref No	
01	06-Sep-2013	47958453.00	48937197.00	10-Oct-2013	DC 173/13-14	
02	31-Jan-2014	7329471.05	10826289.00	20-Mar-2014	DC 413/2013-14	
03	28-Feb-2014	9229473.69	13111050.00	20-Mar-2014	DC 414/2013-14	
4	31-Mar-2014	14615778.76	14208227.00	30-Mar-2014	DC 491/2013-14	
05	13-Jun-2014	15393416.25	35614362.00	16-Jun-2014	DC 54/2014-15	
06	30-Jun-2014	4372644.52	4752124.00	30-Jun-2014	DC 204/2014-15	

Showing 1 to 6 of 6 entries

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Click to edit Click to delete

## Step 3: Add new payment screen

**New Payment** ✕

Bill No:

Bill Amount: Rs 47958453.00

Ref No\*:

Cheque/Draft No\*:

Bank Name:

Amount\*: Rs

Date:

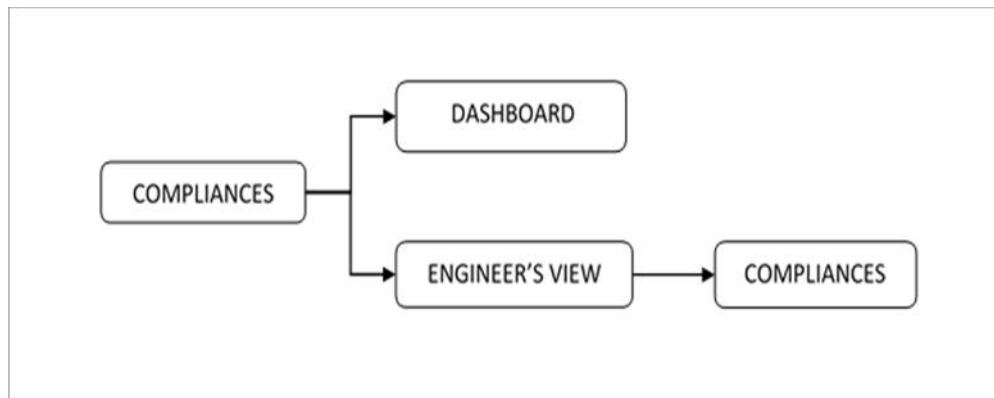
Branch:

[Cancel](#) [Save](#)

#### 4.3.4 Compliances

Background: This module is used to rate the measures taken by the contractor on the traffic safety and environment issues. Here the rating is record on the monthly basis.

Compliances data flow in PMS



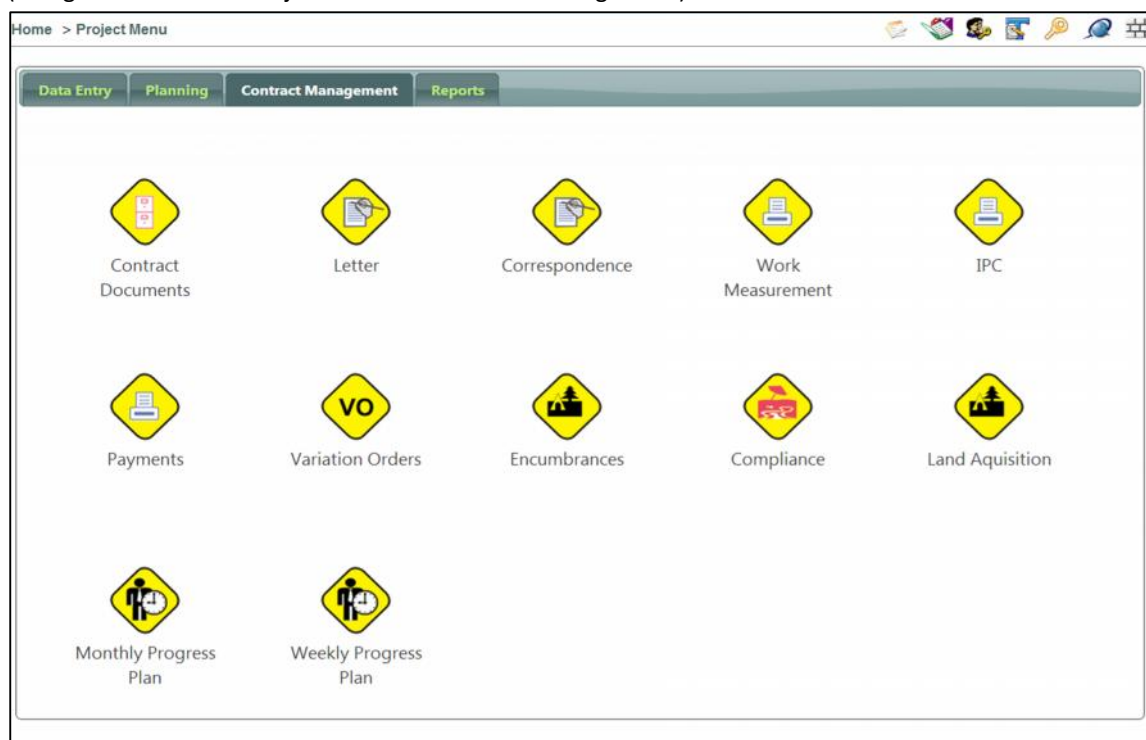
Prerequisite data required for Compliances

- Reach/Road Name

Step by Step procedure to enter the Compliances ratings

Step 1: In “**Contract Management**” tab, Click on “**Compliance**” to make an entry

(Navigation: Home → Project Menu → Contract Management)



## Step 2: Select the month for which the ratings needed to be updated

Home > Project Menu > Compliance

Filter By: Stretch:  Select Month:

**Traffic** Environmental Safety

Search:

Sl.No	Details	Required as per guideline	Provided at site	Ratings
<b>Pre-Construction Compliance</b>				
1	Preparation of Traffic Safety plan in Consonance with work program			Good
2	Deployment of Traffic Management Team			Needs Improvement
<b>Construction Stage Compliance</b>				
3	Opening up of Work for allowing smooth flow of traffic			Good
4	Adequacy of available for existing traffic			Good
5	Requirement/Adequacy of traffic passing place(s)			Satisfactory
6	Adequacy of temporary diversion(s)			Satisfactory
7	Clearance of diversion(s) after completion of work(s)			Needs Improvement
8	No. of traffic signs			Satisfactory
9	Location, Size and Color of Traffic Signs			Needs Improvement
10	Delineation of Construction Zone			Needs Improvement
11	Barricading Deep Excavation			Satisfactory
12	Night Vision of Signs/delineators/barricade by reflective pain/tape			Needs Improvement
13	Deployment of flagmen at narrow/congested areas			Needs Improvement
14	Removal of signs/delineator after completion of works			Satisfactory

Rating Criteria : <3 : Poor >3 to <=5 : Needs Improvement >5 to <=7 : Satisfactory >7 to <=9 : Good >9 to <=10 : Excellent

Showing 1 to 16 of 16 entries

## Step 3: Enter the ratings

**Update Traffic compliances**

SI No: 1

Details: Preparation of Traffic Safety plan in Consonance with work program

Required as per Guidelines/Specifications:

Actual Provided at site as per Specifications:

Ratings: ☒ Poor ☐ Needs Improvement ☐ Satisfactory ☐ Good ☐ Excellent

Remarks:

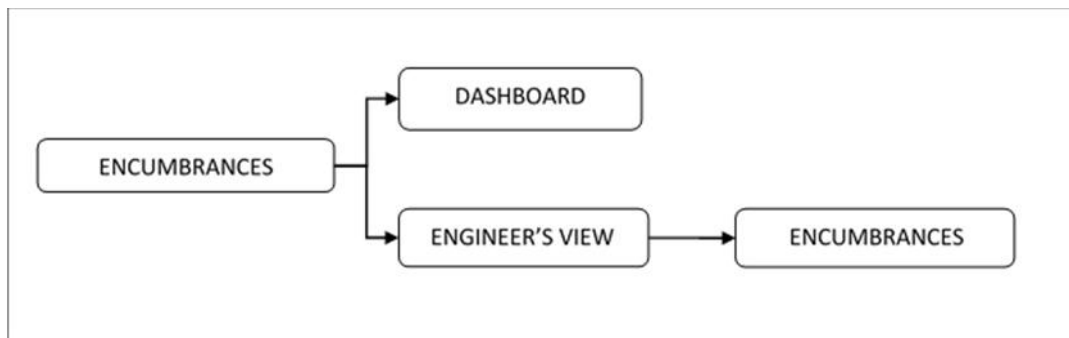
Rating Criteria : <3 : Poor >3 to <=5 : Needs Improvement >5 to <=7 : Satisfactory >7 to <=9 : Good >9 to <=10 : Excellent

**Save** **Cancel**

### 4.3.5 Encumbrances/Constraints

Background: In this module the constraints list can be viewed. Constraints can be filtered in terms of constraints type, milestone, area code and chainage. New constraints can be added. Constraints with Type, Total Quantum, Total Released and Remaining Quantum are maintained here. Constraints quantum can be released here and Quantum Release History is maintained.

Encumbrance's data flow in PMS



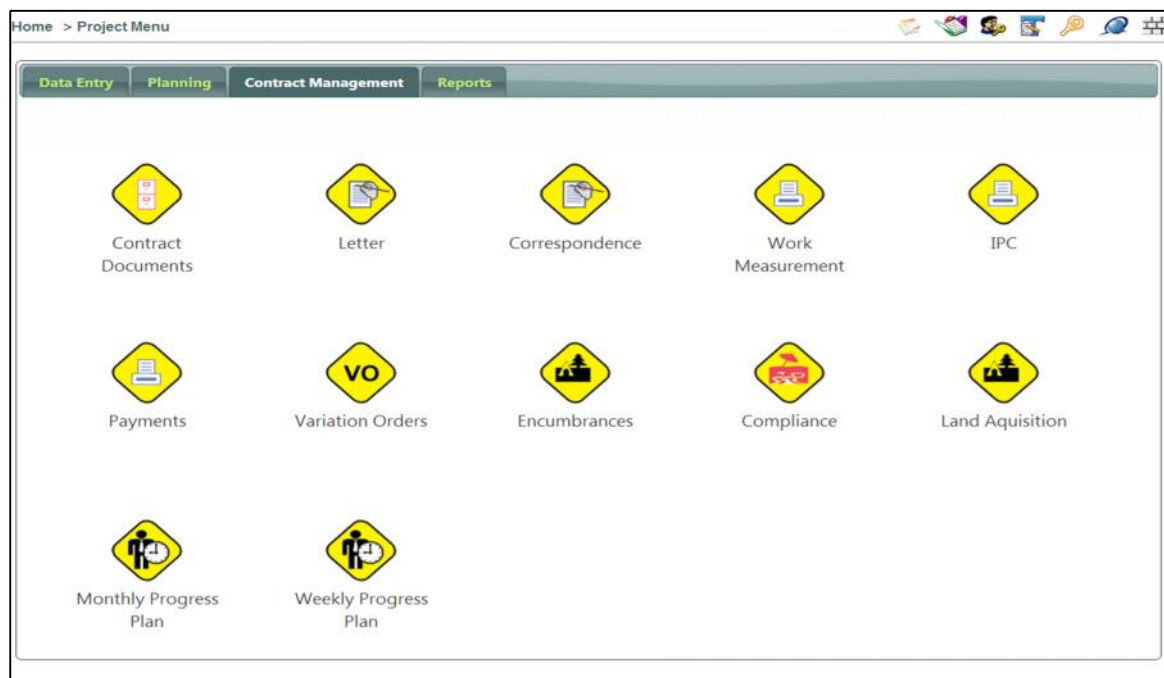
Prerequisite data required for Encumbrances

Road Name/Reach

Step by Step procedure to enter the encumbrances

Step 1: In **"Contract Management"** tab, Click on **"Encumbrances"** to make an entry

(Navigation: Home → Project Menu → Contract Management)





## Step 2: List of Encumbrances screen

[Click here to add new Encumbrance](#)

Home > Project Menu > Encumbrances

[Add New](#)

Filter By  
Type:  Status:

Search:

Posted On	Type	Description	Total Quantum	Released Date	Released Qty	Remaining Qty	Status
12-Jun-14	LAND ACQUISITION	Varada Bridge Approaches towards Hanagal, One survey No left out in Land acquisition process	1		1		OPEN
12-Jun-14	LAND ACQUISITION	Culvert approaches -Missing survey nos needs to be processed for Land acquisition	1		1		OPEN
22-Aug-14	LAND ACQUISITION	Varada Bridge Approaches towards Haveri , Compensation deposited in the court	2		2		OPEN

Showing 1 to 3 of 3 entries

[Click here to view](#)

[Click here to edit](#)

[Click here to release the constraints](#)

## Add new Constraint screen

**Add New Constraints**

Type:  Date Reported\*:

Description\*:

Quantum\*:  Location:  From:  To:

[Cancel](#) [Commit](#)

## Release Constraint Screen

**Release Constraints**

Type: LAND ACQUISITION Date Reported: 22-Aug-14

Description: Varada Bridge Approaches towards Haveri , Compensation deposited in the court

Remaining Quantum: 2

New Release of Constraint Date:  Release Quantum:

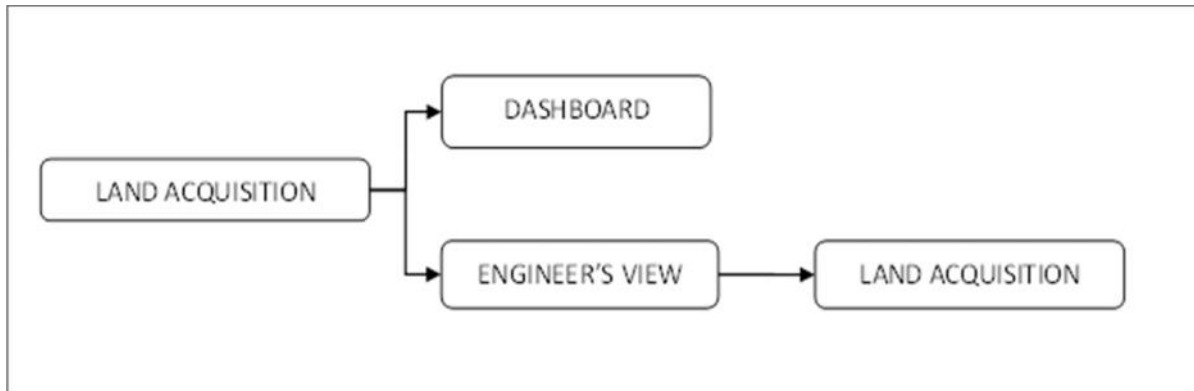
[Save](#) [Cancel](#)



## 4.3.6 Land Acquisition (LAQ)

Background: In this module the LAQ list can be viewed. Chainages with any LAQ issues can be recorded in the system.

LAQ data flow in PMS



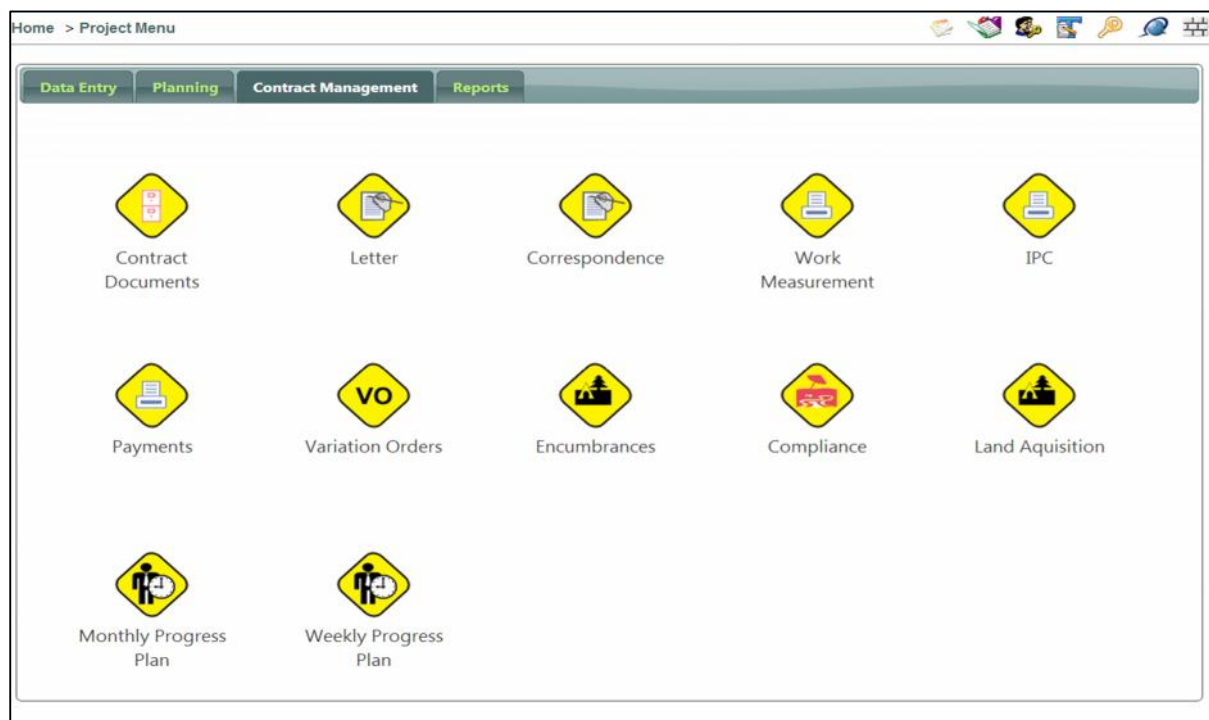
Prerequisite data required for Land Acquisition

Road Name/Reach

Step by Step procedure

Step 1: In “**Contract Management**” tab, Click on “**Land Acquisition**” to make an entry

(Navigation: Home → Project Menu → Contract Management)



## Step 2: Land Acquisition list screen

Click here to add new LAQ

Home > Project Menu > Land Acquisition

Reach : Mehatpur-Una-Jahalera-Amb

Search:

Km From	Km To	Side	Aquisition Status
5.6	50.423	BOTH	Encumbrance Free

Showing 1 to 1 of 1 entries

Land Aquisition status at Mehatpur-Una-Jahalera-Amb

Village Limit

KM 15 16 17 18 19 20 21 22 23 24 25 26 27 28

Chainages

5.6

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## Add new LAQ entry screen

New Entry

Reach : 64C/0 to 13.825 kms 7.250 Km to 7.350 Km

Lane : RHS Aquisition Status : With Encumbrances

Cancel Save

### 4.3.7 Correspondence

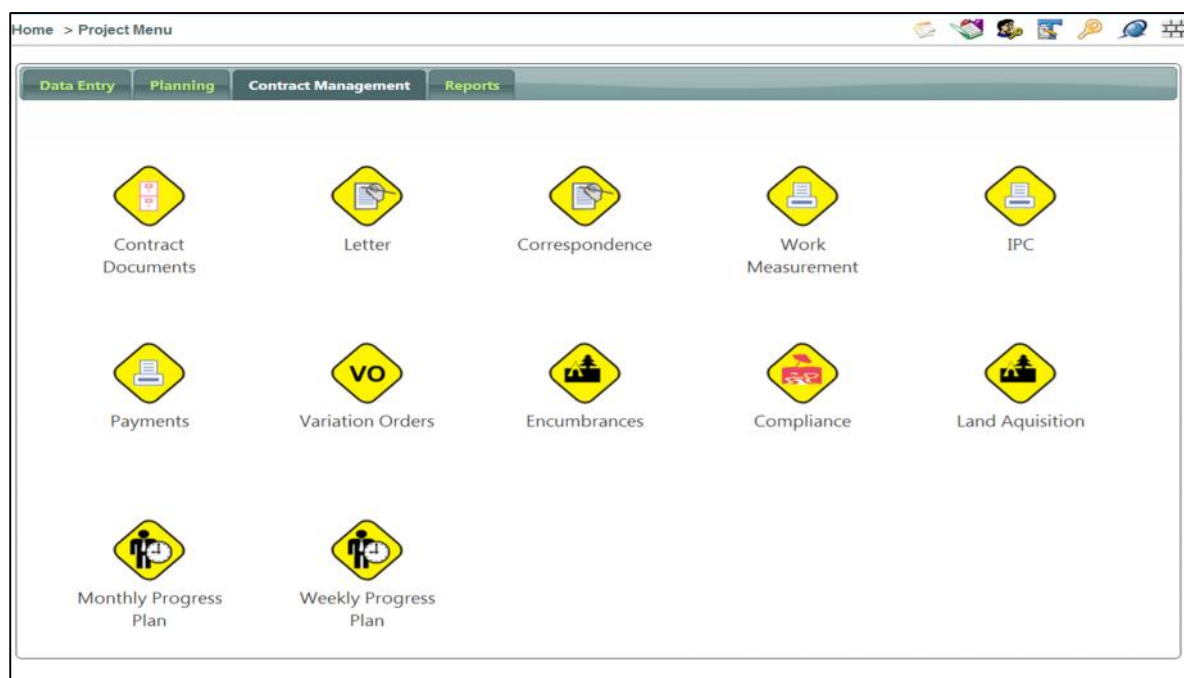
Background: In this module incoming and outgoing correspondence are traced.

Correspondence can be sent with file attachment to employees. Correspondence can be searched with correspondence number, subject and description.

Step by Step procedure for adding new Correspondence

Step 1: In “**Contract Management**” tab, Click on “**Correspondence**” to make an entry

(Navigation: Home → Project Menu → Contract Management)



## Step 2: List of Correspondence screen

Select the relevant folder to add the correspondence



Home > Project Menu > Correspondence

Selected Folder: > AEP-02 > Correspondence > OUTGOING

Search:

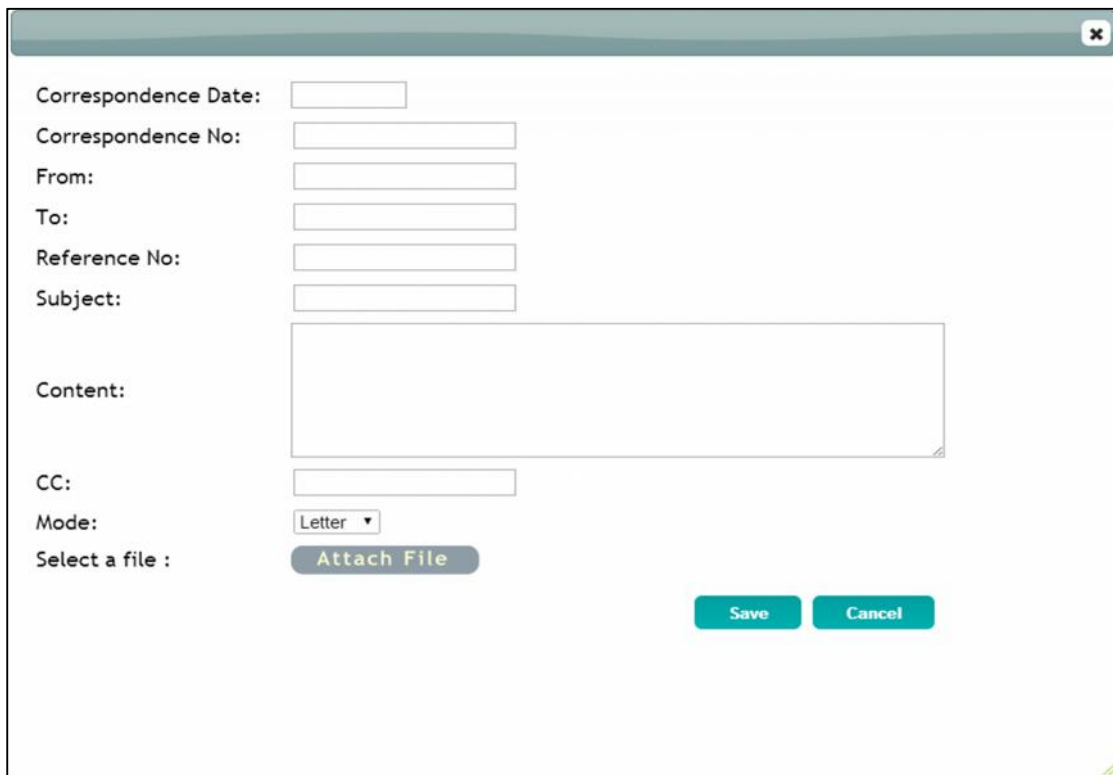
Letter Date	Letter No	Sent From	Sent To	Subject
No data available in table				

Showing 0 to 0 of 0 entries

Create Sub Folder Edit Folder New Correspondence

Click here to add new Correspondence

## Step 3: Add new Correspondence screen



Correspondence Date:

Correspondence No:

From:

To:

Reference No:

Subject:

Content:

CC:

Mode:

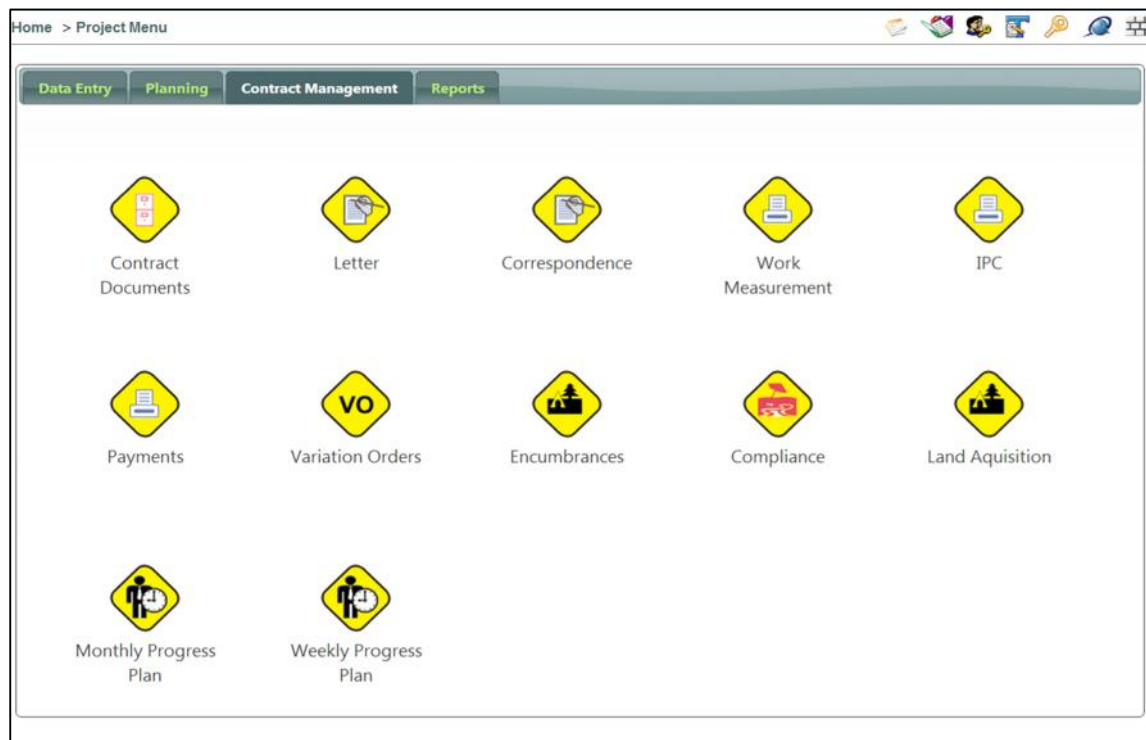
Select a file :

#### 4.3.8 Contract Documents

Background: This module is used to store contract documents. Documents can be stored in a folder structure and it can be searched using document number, title, description, from date and to date.

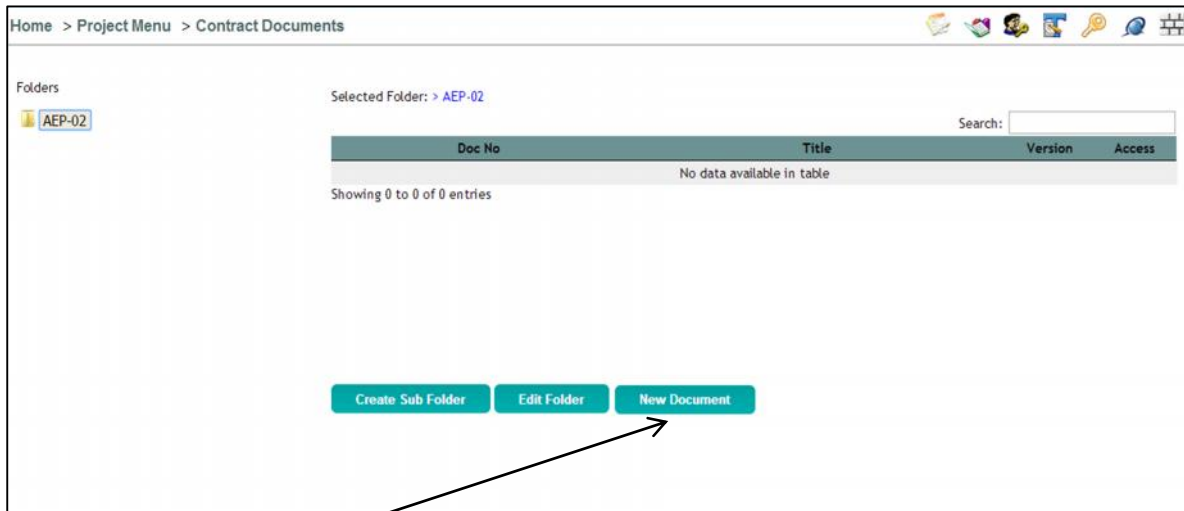
Step by Step procedure to add Contract Documents

Step 1: In “**Contract Management**” tab, Click on “**Contract Documents**” to make an entry (Navigation: Home → Project Menu → Contract Management)



**Step 2: List of Contract Documents screen**

Select the relevant folder to add the document



Click here to add new Contract document

**Step 3: Add new Contract document screen**