



WRMIS User Manual

SCHEDULE AND INSPECTION

**DEVELOPMENT OF WATER RESOURCES
MANAGEMENT INFORMATION SYSTEM (WRMIS)
AND DECISION SUPPORT SYSTEM (DSS)**

NESPAK

Version 1.0

December 05, 2016





Revision History

Version	Date	By	Summary of Changes
1.0	05-Dec-16	NESPAK	Initial Draft





TABLE OF CONTENTS

1 Schedule & Inspections.....	7
Prepare Schedule.....	7
Schedule Title.....	8
Schedule Title	
From and to date	8
Schedule Description.....	8
Save	9
Back	9
2 Schedule Details	10
Gauge Inspection	10
Discharge Table Calculation.....	11
Inspection of Outlet Alteration	13
Outlet Performance.....	13
Tender Monitoring	14
Works Inspections	16
General Inspections.....	16
Back	17
3 Search Schedule	17
Zone	17
Circle	18
Division.....	19
Sub Division	19
From and to date	19
Status.....	19
Assigned to me	19
Search.....	20
Add New Schedule.....	20
Edit Schedule	20
Delete Schedule	20



4	Actions	21
	Comments	21
	Action	23
	View Schedule Details	23
	Save	23
	Back	23
	Comment History	23
	Schedule Calendar	23
5	Add Inspection Notes	24
	Gauge Inspection	25
	Outlet Alteration	33
	Outlet Performance	36
	Tender Monitoring	39
	Committee Attendance	39
	Contractor Attendance	41
	Tender Price	43
	ADM Reports	45
	Comparative Statements	47
	Works Inspections	48
	General Inspection	51
6	Unscheduled Inspections	53
	Search Criteria for Outlet Performance	53
7	Unscheduled Inspection Notes- Outlet Performance	55
	Observation Date	56
	Head above Crest of Outlet (H in ft.)	56
	Working Head (wh in ft.)	56
	Height of Outlet/Orifice (Y in ft.)	56
	Diameter/Breadth/ Width (Dia/B in ft.)	57
	Discharge (cusec)	57
	Efficiency (Observed Discharge/Design Discharge x 100)	57
	Remarks	57
	Save	57



Back	57
8 Outlet Performance History	58
From and To date	58
Show History	58
Back	59
9 Search Criteria for Inspection of Outlet Alteration	59
Command Name	60
Channel Type	60
Flow Type	60
Channel Name	60
Search Channel	60
10 62	
11 Unscheduled Inspection Notes- Inspection of Outlet Alteration	62
Inspection Date	62
Height of Outlet/Orifice (Y in ft.)	63
Working Head (ft.)	63
Head above Crest of Outlet (H in ft.)	63
Diameter/Breadth/ Width (Dia/B in ft.)	63
Remarks	63
Save	64
Back	64
12 Unscheduled Inspection Notes- General Inspection	64
Inspection Date	64
Location	65
Inspection Detail	65
Remarks	65
Attachment	65
Save	65
13 Search Inspections	66
Zone	66
Circle	66
Division	67
Sub Division	67



From and to date	67
Inspection Type	67
Inspection Category	67
Search	68
14 Reference Data – General Inspection Type	68
Add General Inspection Type.....	68
15 Schedule & Inspection (Android)	69
View Schedule & Inspection Calendar	71
Add Gauge Inspection	74
Gauge Value	75
16 Add Discharge Table Calculation (Bed Level)	76
17 Discharge Table Calculation (Crest Level)	78
18 Outlet Performance	81
19 Outlet Alteration	83
20 General Inspection	86
21 Work Inspection	87
22 Inspection of Committee Attendance	91
23 Inspection of Contractor Attendance	93
24 Inspection of Tender Price	96
25 Inspection of ADM Reports	100
26 Unscheduled Inspection	105
27 Discharge Table Calculation (Bed Level)	111
28 Discharge Table Calculation (Crest Level)	116
29 Gauge Inspection	119
30 Outlet Alteration	123
31 General Inspection	127



1 Schedule & Inspections

The module provides the functionality to prepare schedule for SDO, XEN, MA and ADM. A schedule is prepared by the respective user and is sent to higher authority for approval. Schedule details can be added in the schedule and it can be send for rework and reschedule. The scheduled and unscheduled inspections for Gauge, Discharge Table calculation, Outlet Alteration, Outlet Performance, Tenders Monitoring, Works Inspection and other General Inspections can be added.

Prepare Schedule

Activate Users: XEN, SDO, MA, ADM

The screenshot shows the WRMIS Dashboard for a Sub-Divisional Officer (SDO). On the left, a vertical menu bar lists several categories: Irrigation Network, User Administration, Daily Operational Data, Water Theft, Schedule and Inspections, Complaints, and Water Losses. The 'Schedule and Inspections' category is currently selected, with its sub-options visible: Schedule Calendar, Prepare Schedule, Search Schedule, Search Inspection, and Unscheduled Inspections. The main dashboard area is titled 'WRMIS Dashboard' and contains a grid of twelve cards, each representing a different module or feature. The cards are arranged in three rows of four. The first row includes 'Irrigation Network' (icon: water drop in a circle), 'Daily Data' (icon: document with a graph), 'Water Theft' (icon: padlock with a water drop), and 'Irrigator Feedback' (icon: person with a speech bubble). The second row includes 'User Administration' (icon: user profile), 'Schedules & Inspection' (icon: calendar with a magnifying glass), 'Complaints Management' (icon: phone with a '24' inside), and 'Water Losses' (icon: water drop in a circle). The third row includes 'Seasonal Planning' (icon: calendar and clock), 'Performance Evaluation' (icon: magnifying glass over a chart), 'Flood Early Warning System' (icon: triangle with water inside), and 'Public Website' (icon: computer monitor).

- Click on Prepare Schedule present on left menu or search screen
- System redirects the user to add new schedule screen



WATER RESOURCE MANAGEMENT INFORMATION SYSTEM

User Administration >
Irrigation Network >
Daily Data >
Water Theft >
Irrigator Feedback >
Complaints >
Schedule & Inspect. >
Schedule Calendar
Prepare Schedule
Search Schedule
Unscheduled Inspect. >
Outlet Performance
Inspection of Outlet Alteration
General Inspections
Search Inspection
Reference Data >
Gen. Inspect. Types

Schedule and Inspections

Add New Schedule

Schedule Title: 27-Mar-2017

From Date: 27-Mar-2017

To Date:

Schedule Description:

Save Back

Activate Windows
Go to Settings to activate Windows.

Schedule Title

Schedule Title:

- Enter the Schedule Title in the Text field

From and to date

From Date:

27-Mar-2017

To Date:

- Select From and to date from calendar
- From and To date is greater than or equal to current date
- System will show message if From date is greater than To date
-

Schedule Description

Schedule Description:

- Enter detail regarding to schedule in schedule description field





Save

Save

- Click on save button , System checks all mandatory fields
- System saves the information and displays a successful message upon saving and redirects user to Schedule Details screen
- System sets schedule status as “Prepared”

Back

Back

- Click on Back button , System redirects the user to search schedule screen without saving the record





2 Schedule Details

- After saving, System redirects the user to schedule details screen

The screenshot shows the 'Schedule and Inspections' section of the WRMIS. On the left, there's a navigation menu under 'Schedule & Inspect.' which includes 'Schedule Calendar', 'Prepare Schedule', 'Search Schedule', 'Unscheduled Inspect.', 'Outlet Performance', 'Inspection of Outlet Alteration', 'General Inspections', 'Search Inspection', 'Reference Data', 'Gen. Inspect. Types', 'Closure Operations', 'Tender Management', 'Performance Eval.', 'Flood Operations', 'Reports', 'Rotational Programs', 'Entitlements & Deliv.', 'Seasonal Planning', and 'Assets and Works'. The main area displays several tables for different inspection types. Each table has columns for Division, Sub Division, Channel Name, Inspection Areas, Date of Visit, and Remarks. A green '+' button is at the top right of each table. Below the tables, there are sections for 'No record found' and 'Remarks'. At the bottom right, there's a link to 'Activate Windows'.

Gauge Inspection

- Click on button to add grid against gauge inspection

The screenshot shows the 'Gauge Inspection' form. It has a header 'Gauge Inspection' and a table with columns: Division, Sub Division, Channel Name, Inspection Areas, Date of Visit, and Remarks. Below the table are four dropdown menus labeled 'Select' and a date picker. To the right of the table are icons for edit, delete, and search.

- Select division from the 'Division' dropdown.
- On selection of division, names of relevant Sub divisions are populated in "Sub Division" dropdown
- On selection of Sub Division names of relevant Channel names are populated in the Channel Name dropdown.
- Select channel name from "Channel Name" dropdown
- Select Inspection area as Head/Tail from "Inspection Area" dropdown
- Select Date of visit from "Date of Visit" dropdown using the calendar





- System checks that Date of Visit is between From and To date of the schedule
 - Otherwise system shows message : “Date of visit must be between From & To date of the schedule”
 - Enter remarks in “Remarks” field
- Save |
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message
 - Click on Cancel button to cancel the open grid
 - After saving, click on edit button to edit any provided information
 - Click on Delete button to delete a record against any grid

Discharge Table Calculation

- Click on button to add grid against discharge table calculation
- This Add button will be visible only for the schedule of MA and ADM

Discharge Table Calculation					
Division	Sub Division	Channel Name	Inspection Areas	Date of Visit	Remarks
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Calendar"/>	<input type="text"/>

- Select division from the ‘Division’ dropdown.
 - On selection of division, names of relevant Sub divisions are populated in “Sub Division” dropdown
 - On selection of Sub Division names of relevant Channel names are populated in the Channel Name dropdown.
 - Select channel name from “Channel Name” dropdown
 - Select Inspection area as Head/Tail from “Inspection Area” dropdown
 - Select Date of visit from “Date of Visit ” dropdown using the calendar
 - System checks that Date of Visit is between From and To date of the schedule
 - Otherwise system shows message : “Date of visit must be between From & To date of the schedule”
 - Enter remarks in “Remarks” field
- Save |
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message



- Click on Cancel button to cancel the open grid
- After saving, click on edit button | to edit any provided information
- Click on Delete button to delete a record against any grid



Inspection of Outlet Alteration

- Click on button to add grid against Inspection of Outlet Alteration
- This Add button will be visible only for the schedule of MA and ADM
-
- Select division from the 'Division' dropdown.
- On selection of division, names of relevant Sub divisions are populated in "Sub Division" dropdown
- On selection of Sub Division names of relevant Channel names are populated in the Channel Name dropdown.
- Select channel name from "Channel Name" dropdown
- After selecting channel name, names of relevant Outlets are populated in Outlet Name dropdown
- Select outlet name from "Outlet Name" dropdown
- Select Date of visit from "Date of Visit" dropdown using the calendar , System checks that Date of Visit is between From and To date of the schedule
- Otherwise system shows message : "Date of visit must be between From & To date of the schedule"
- Enter remarks in "Remarks" field
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message
- Click on Cancel button to cancel the open grid
- After saving, click on edit button to edit any provided information
- Click on Delete button to delete a record against any grid

Outlet Performance

- Click on button to add grid against Outlet Performance
-
- Select division from the 'Division' dropdown.



- On selection of division, names of relevant Sub divisions are populated in “Sub Division” dropdown
 - On selection of Sub Division names of relevant Channel names are populated in the Channel Name dropdown.
 - Select channel name from “Channel Name” dropdown
 - After selecting channel name, names of relevant Outlets are populated in Outlet Name dropdown
 - Select outlet name from “Outlet Name” dropdown
 - Select Date of visit from “Date of Visit ” dropdown using the calendar
 - Enter remarks in “Remarks” field
- |
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message
 - Click on Cancel button to cancel the open grid
 - After saving, click on edit button to edit any provided information
 - Click on Delete button to delete a record against any grid

Tender Monitoring

- Click on button to add grid against Tender Monitoring
- This Add button will be visible only for the schedule of XEN and ADM

Tenders Monitoring					
Division	Tender Notice	Work	Tender Opening Date	Remarks	
Select	Select	Select			

- Select Division from the ‘Division’ drop down
 - Select Tender Notice from the ‘Tender Notice’ drop down, only those tender notice will display in the drop down which lie in the range of schedule from and to date.
 - Select Work from the work drop down
 - Tender Opening Date displays in disable mode on the selection of the tender notice.
 - Enter the Remarks in the ‘Remarks’ text field
- |
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message



- Click on Cancel button to cancel the open grid
- After saving, click on edit button | to edit any provided information
- Click on Delete button to delete a record against any grid



Works Inspections

- Click on button to add grid against Work Inspection
- This Add button will be visible only for the schedule of XEN and ADM

Works Inspections

Division	Work Type	Work	Inspection Date	Remarks	
Select	Select	Select			

- Select Division from the 'Division' Drop down
- Select the Work Type from the 'Work Type' drop down
- Select the Work from the 'Work' Drop down , Only Awarded works display in the Work Drop down
- Select the Inspection date from the 'Inspection Date' using the calendar
- Enter the Remarks in the 'Remarks' text field
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message
- Click on Cancel button to cancel the open grid
- After saving, click on edit button to edit any provided information
- Click on Delete button to delete a record against any grid
-

General Inspections

- Click on button to add grid against General Inspection

General Inspections

Inspection Type	Location	Schedule Date	Remarks	
Select				

- Select the Inspection type from the 'Inspection Type' drop down
- Enter the Location from the 'Location' Text field
- Select the Schedule Date from the 'Schedule Date' control using the calendar
- Enter the Remarks in the 'Remarks' text field
- Click on Save button , system checks for the mandatory field & if any field is missing system display a message





- Click on Cancel button to cancel the open grid
- After saving, click on edit button to edit any provided information
- Click on Delete button to delete a record against any grid
-

[Back](#)

[Back](#)

- Click on Back button
- System redirects the user to the main search screen
-

3 Search Schedule

- Click on Search Schedule present on left menu
- System redirects the user to search schedule main screen

The screenshot shows the 'WATER RESOURCE MANAGEMENT INFORMATION SYSTEM' interface. On the left, a vertical sidebar menu is visible with several options under 'Schedule and': 'Schedule Calendar', 'Prepare Schedule', 'Search Schedule', 'Search Inspection', 'Unscheduled Inspections', 'Outlet Performance', and 'Inspection of Outlet Alteration'. The 'Search Schedule' option is currently selected. The main content area is titled 'Schedule and Inspections' and contains a 'Search Schedule' section. This section includes dropdown menus for 'Zone' (set to Bahawalpur), 'Division' (set to Ahmedpur), 'Circle' (set to Bahawalpur), 'Sub Division' (set to Abbasia), and date pickers for 'From Date' (05-Dec-2016) and 'To Date' (04-Jan-2017). A 'Status' dropdown is set to 'All'. Below these fields is a checkbox labeled 'Assigned to me for Approval'. At the bottom of the search section are two buttons: a blue 'Search' button and a green 'Add New Schedule' button. The top right corner of the interface shows the user's role as 'Sub-Divisional Officer [SDO]'.

[Zone](#)

Zone

All

- Select zone from the 'Zone' drop down.





- On selection of zone, relevant circles are populated in the circle dropdown.

Circle

Circle

All



- Select circle from the 'Circle' dropdown.
- On selection of circle, relevant divisions are populated in the division dropdown



Division

Division

All



- Select division from the ‘Division’ dropdown.
- On selection of division, relevant sub divisions name are being populated in the Sub Division dropdown.

Sub Division

Sub Division

All



- Select sub division from the ‘Sub Division’ dropdown.

From and to date

From Date

05-Dec-2016



To Date

04-Jan-2017



- Select From and To date from “From and To date” dropdowns respectively
- Selected From date is not greater than selected To date

Status

Status

All



- Select status from “Status” dropdown to search schedules against specific status

Assigned to me



Assigned to me for Approval

- Check “Assigned to me” checkbox
- System displays all the schedules in search result that are assigned to logged on user (ADM, SE, DD, XEN)





Search

Search

- After setting all searching criteria click on “Search” button
- System displays results as per search criteria

Add New Schedule

Add New Schedule

- Click on “Add New Search” button
- System redirects user to Prepare Schedule screen to add new schedule

Edit Schedule



- Click on the edit button from the search results for the schedule whose parent information user wishes to edit.
- System redirects the user to edit schedule web form with auto populated parent information
- User makes the necessary changes
- Click on the save button and system performs the validation checks.
- System save the information into the database
- System checks if from or to date is greater than or equal to current date.
- System checks if To date is greater than or equal to From date
- User can edit schedule if its status is “Prepared” or “Rescheduled” and respective users can edit schedule if schedule is assigned to them and schedule status is “Pending for Approval ”

Delete Schedule



- Click on the delete button from the search results of the Schedule which is to be deleted.
- System prompts the user for the standard delete message. If user agrees on deleting the schedule, system displays the success message of delete.
- User can only delete schedule with status “Prepared” and “Rescheduled”





4 Actions

- Click on Actions icon present on search schedule screen against prepared schedule
-

Schedule and Inspections

Search Schedule

Zone	All	Circle	All
Division	All	Sub Division	All
From Date	<input type="button" value="Calendar"/>	To Date	<input type="button" value="Calendar"/> 05-Jan-2017
Status	All		

Assigned to me for Approval

Search **Add New Schedule**

Schedule Title	From Date	To Date	Approval Status	Prepared By	Execution Status	Actions
User Manual	6-Dec-2016	16-Dec-2016	Prepared	Sub Divisional Officer Attique Paul, SDO	Active/Planned	

- System redirects the user to Action screen
- Schedule basic information is display at the top of the action screen

WATER RESOURCE MANAGEMENT INFORMATION SYSTEM

User Administration > Sub Divisional Officer Attique Paul [SDO] ▾

Irrigation Network >

Daily Data >

Water Theft >

Irrigator Feedback >

Schedule & Inspect. ▾

- Schedule Calendar
- Prepare Schedule
- Search Schedule
- Unscheduled Inspect. ▾
- Outlet Performance
- Inspection of Outlet Alteration
- Search Inspection
- Complaints >
- Water Losses >
- Seasonal Planning >
- Perform, Evaluation >

Schedule and Inspections

Action On Schedule

Title User Manual	Prepared By Sub Divisional Officer Attique Paul, SDO	From Date 06-Dec-2016	Status Prepared
Comments <input type="text"/>	Action <input type="button" value="Select"/>	To Date 16-Dec-2016	

Save **View Schedule Details** **Back**

Comments

- Enter comments in “Comments” text field present on Action screen.

Comments







Action

- Select action from “Action” dropdown

Action

Select



View Schedule Details

View Schedule Details

- Click on “View Schedule Details ” button to view details against prepared schedule
- System redirects the user to Schedule detail screen

Save

Save

- Click on Save button present on Action screen , System redirects the user to the search schedule screen & system sets the schedule status as “Pending for Approval”
- System assigns the status to the schedule as per action taken and assigns it to the respective user by sending notifications as well.

Back

Back

- Click on Back button
- System redirects the user to search screen

Comment History

- Comment History is displayed at the end of the Action screen

Comments History

From	Date	Action	Comments
Executive Engineer , XEN	15-Dec-2016	Assigned to SDO	Approved by XEN
Sub Divisional Officer , SDO	15-Dec-2016	Assigned to XEN	Please approve it

Schedule Calendar

- Click on Schedule Calendar link from left menu , System redirects the user to main Calendar screen





Schedule and Inspections

Schedule Calendar

December 2016						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

15-Dec-2016

Gague Inspection
 CRBC, CRBC-III
 Approved Head

- System displays the current complete month, encircling the current date.
- System highlights the dates for which Schedule Details have been added
- On right side of the calendar screen, system shows all the inspections notes along with their statuses that are added by user in current month
- If the schedule of the selected date is ‘Approved’ then Inspection Notes icon is enabled. Otherwise the icon of Inspection Notes is disabled.
- If Inspections have already been added for the selected date then on clicking the Inspection notes button will redirect the user to the view mode of Inspection notes. If Inspections have not been added for the selected date then application redirects the user to the add screen of inspections.

5 Add Inspection Notes

Activate Users: SDO, XEN, MA, ADM

- Go to calendar screen and select date against which schedule details is added
- Or open inspection notes from Search Schedule screen

From Search Screen

Schedule Title	From Date	To Date	Approval Status	Prepared By	Execution Status	Actions
User Manual	6-Dec-2016	16-Dec-2016	Approved	Sub Divisional Officer Attique Paul, SDO	Executed	





Inspection Notes from calendar screen

The screenshot shows the 'Schedule and Inspections' section of the WRMIS. On the left, a sidebar menu includes 'Schedule Calendar', 'Prepare Schedule', 'Search Schedule', 'Unscheduled Inspect.', 'Outlet Performance', 'Inspection of Outlet Alteration', 'Search Inspection', 'Complaints', 'Water Losses', 'Seasonal Planning', and 'Perform. Evaluation'. The main area displays a 'Schedule Calendar' for December 2016. Two specific dates, December 7th and 8th, are highlighted with orange boxes. To the right, a detailed view for December 7th shows several inspection tasks: 'Gauge Inspection CRBC, CRBC-III Approved Tail', 'Gauge Inspection CRBC, CRBC-III Approved Head', 'Discharge Table Calculation CRBC, CRBC-III Approved Head', 'Discharge Table Calculation CRBC, CRBC-III Approved Tail', 'Outlet Alteration CRBC, CRBC-III Approved 800600/L', and 'Outlet Performance CRBC, CRBC-III Approved 800600/L'. Each task has a blue checkmark icon next to it, indicating they have been approved. A red box surrounds the list of inspection notes for December 7th.

- Click on add inspection notes link for the inspections to be added. Only that icon will be enabled whose schedule has been approved.

Gauge Inspection						
Division	Sub Division	Channel Name	Inspection Areas	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	Head	07-Dec-2016	User Manual	

Gauge Inspection

- Click on inspection notes link from the gauge inspection grid
- System redirects user to gauge inspection screen to add gauge inspection
- If the Inspection note link color is changed ,system opens inspection link in view mode





WATER RESOURCE MANAGEMENT INFORMATION SYSTEM

User Administration >
Irrigation Network >
Daily Data >
Water Theft >
Irrigator Feedback >
Schedule & Inspect. >
 Schedule Calendar
 Prepare Schedule
 Search Schedule
 Unscheduled Inspect.
 - Outlet Performance
 - Inspection of Outlet Alteration
 Search Inspection
Complaints >
Water Losses >
Seasonal Planning >
Perform. Evaluation >

Schedule and Inspections

Add Inspection Notes - Gauge Inspection

Title User Manual	Status Approved
Prepared By Sub Divisional Officer, SDO	From Date 07-Dec-2016
Channel Name CRBC-III	Inspection Area Head
To Date 31-Dec-2016	Inspected By N/A
Inspection Date <input type="text" value="08-Dec-2016"/> <input type="button" value="x"/>	
Gauge Fixed <input checked="" type="radio"/> Yes <input type="radio"/> No	
Gauge Painted <input checked="" type="radio"/> Yes <input type="radio"/> No	
Gauge (ft)	Discharge (Cusec) <input type="text"/>
Attachment <input type="button" value="Choose File"/> No file chosen	
Remarks <input type="text"/>	
<input type="button" value="Save"/> <input type="button" value="Back"/>	

- System displays schedule title, schedule status, prepared by, from and to date, channel name, inspection area and inspected by on the top of the screen
- System shows “Inspected by” name only when the inspection is opened in view mode (when inspections are added)

Inspection Date

- Enter Inspection date in “Inspection Date” field.

Inspection Date

- System does not allow to enter date which is not in between From and To date of schedule
- System does not allow user to enter future date in inspection date field

Gauge Fixed

- Select Gauge Fixed from Yes or No radio button

Gauge Fixed Yes No

Gauge Painted

- Select Gauge Painted from Yes or No radio button





Gauge Painted Yes No

Gauge (ft.)

Gauge (ft)

- Enter value in gage(ft.) field
- System does not allow user to enter value in gauge (ft.) if any one of Gauge Painted or Gauge Fixed is No
- System only allow user to enter if both are Yes (Gauge Painted and Gauge Fixed)
- Enter gauge value between 0 and 30. Otherwise system displays message if gauge value exceeds from 30
- System does not accept negative gauge value





Discharge (Cusec)

Discharge (Cusec) --

- Focus out of Gauge field after entering value
- System automatically calculates Discharge value

Gauge (ft) Discharge (Cusec) 27

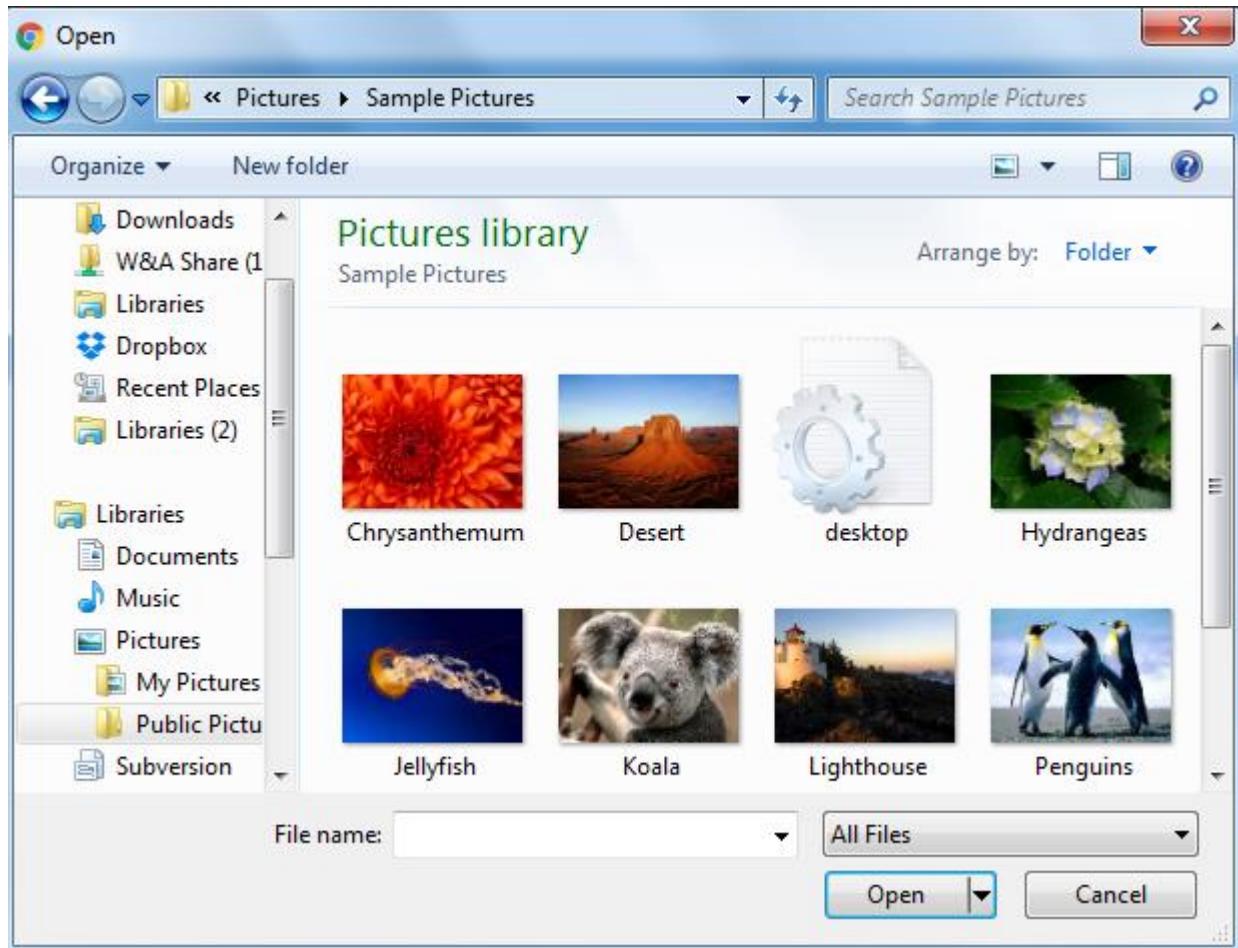
- System displays Discharge value in Cusecs

Attachment

- Click on “Choose File” button to upload image of gauge inspection

Attachment No file chosen

- After clicking on “Choose File” a window opens to select image to be uploaded





- Select image to upload on gauge inspection screen
- System only accepts files of image formats
- After selecting, system shows the selected image.

Attachment

Choose File

Chrysanthemum.jpg

Remarks

- Enter remarks on “Remarks” text field present on gauge inspection screen

Remarks

Gauge Inspection has been done by SDO

- System does not accept more than 250 characters in remarks field
- System allows user to enter all numeric, alphabets and special characters in remarks field

Save

Save

- Click on “Save” button to save gauge inspection
- Systems displays a message “Record saved successfully” once inspection is saved
- After saving, system redirects user to main inspection notes screen
- System changes color of inspection notes icon once user has saved the inspection.

Gauge Inspection

Division	Sub Division	Channel Name	Inspection Areas	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	Head	07-Dec-2016	User Manual	

Back

Back

- Click on Back button, System redirects the user to the main inspection notes screen

Discharge Table Calculation-Inspection Notes





- Click on Inspection Notes link from Discharge Table Calculation inspection grid

Discharge Table Calculation

Division	Sub Division	Channel Name	Inspection Areas	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	Head	07-Dec-2016	User Manual	

- System redirects user to Discharge Table calculation inspection screen

Schedule and Inspections

Add Inspection Notes - Discharge Table Calculation for Bed Level

Title User Manual	Status Approved	
Prepared By Sub Divisional Officer, SDO	From Date 07-Dec-2016	To Date 31-Dec-2016
Channel Name CRBC-III	Inspection Area Head	Inspected By N/A
Inspection Date 08-Dec-2016	Mean Depth(D in ft)	
Value of Exponent(n) <input type="text"/>	Coefficient of Discharge(K) <input type="text"/>	
Observed Discharge(Qo in Cusec) <input type="text"/>	Gauge Correction Type <input type="text"/>	Gauge Value Correction <input type="text"/>
Remarks <input type="text"/>	Save	Back

- System displays schedule title, schedule status, prepared by, from and to date, channel name, inspection area and inspected by on the top of the screen
- System shows "Inspected by" name only when inspection is opened in view mode.





Inspection Date

- System automatically sets current date as inspection date on Discharge Table calculation screen

Value of Exponent

- Enter value of exponent in “Value of Exponent” field

Value of Exponent(n)

5

- System only accept value of exponent from 0 to 5
- Upon saving system warns if value is greater than 5

Inspection Date



08-Dec-2016





Mean Depth (D in ft.)

- Enter mean depth value in “Mean Depth (D in ft.)” field

Mean Depth(D in ft)

28

- System only accepts values from 0 to 30 in mean depth (D in ft.) field
- If value exceeds from 30, system warns user upon saving

Observed Discharge (Qo in Cusec)

- Enter value of Observed Discharge in “Observed Discharge(Qo in Cusec)” field

Observed
Discharge(Qo in Cusec)

4569

- System only accepts values from 0 to 99,999 in observed discharge field
- If value exceeds from 99,999, system warns user upon saving

Gauge Correction Type

- Select gauge correction type from the “Gauge Correction Type” dropdown

Gauge Correction Type

Select

- Select value as Bed Silted or Bed Scoured from dropdown

Gauge Correction Value

- Gauge Correction value enables when user selects gauge correction type
- Enter value in “Gauge Correction Value” field

Gauge Value Correction

- System only accepts value from 0 to 30
- If value is more than 30, system warns user upon saving

Coefficient of Discharge (K)

- System auto calculates Coefficient of Discharge (K) upon saving the inspection notes. This calculated value can be seen only when user clicks on the view inspection notes link from Inspection Notes screen.
- This field is read-only





Coefficient of Discharge(K)

49.3125

Remarks

- Enter remarks in “Remarks” text area

Remarks

- System doesn't allow user to add remarks more than 250 characters

Save

- After entering data in all fields, user clicks on “Save” button

Save

- System saves all data and navigates user to main inspection notes screen and changes the color of inspection icon

Discharge Table Calculation

Division	Sub Division	Channel Name	Inspection Areas	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	Head	07-Dec-2016	User Manual	

Back

- Click on “Back” button

Back

- System navigates user to main inspection notes screen without saving any provided data

Outlet Alteration

- Click on Inspection Notes link from Outlet Alteration inspection grid

Inspection of Outlet Alteration

Division	Sub Division	Channel Name	Outlet Name	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	800+600/L	07-Dec-2016	User Manual	





- System redirects user to Outlet Alteration inspection screen

The screenshot shows the 'Schedule and Inspections' section of the WRMIS. On the left, a sidebar lists various modules like User Administration, Irrigation Network, Daily Data, Water Theft, Irrigator Feedback, Schedule & Inspect., Complaints, Water Losses, Seasonal Planning, and Perform. Evaluation. The 'Schedule & Inspect.' module is currently selected. The main area displays a form titled 'Add Inspection Notes - Outlet Alteration'. The form contains the following fields:

- Title:** User Manual
- Prepared By:** Sub Divisional Officer, SDO
- From Date:** 07-Dec-2016
- To Date:** 31-Dec-2016
- Status:** Approved
- Channel Name:** CRBC-II
- Outlet Name:** 800600 / Left
- Outlet Type:** Adjustable Proportional Module
- Inspection Date:** 09-Dec-2016
- Height of Outlet/Orifice (Y in ft):** (empty field)
- Head above Crest of Outlet (H in ft):** (empty field)
- Working Head (ft):** (empty field)
- Diameter/Breadth/Width (Dia/B in ft):** (empty field)
- Remarks:** (empty text area)

At the bottom of the form are 'Save' and 'Back' buttons.

- System displays schedule title, schedule status, prepared by, from and to date, channel name, inspection area and inspected by on the top of the screen
- System shows "Inspected by" name only when inspection is opened in view mode

Inspection Date

- Enter Inspection date in "Inspection Date" field using the calendar

Inspection Date 08-Dec-2016

- System does not allow to enter date which is not in-between From and To date of schedule
- System does not allow user to add future date in inspection date field

Height of Outlet/Orifice (Y in ft.)

- Enter value of height of outlet/orifice in "Height of Outlet/Orifice (Y in ft.)" field from 0 to 10

Height of
Outlet/Orifice (Y in ft) Height of Outlet/Orifice

- System warns user on saving, upon entering value more than 10





Working Head (ft.)

- Enter value in “Working Head (ft.)” field from 0 to 10
- System warns user upon saving, if value exceeds from 10

Working Head (ft)

Working Head

Head above Crest of Outlet (H in ft.)

- Enter value in “Head above Crest of Outlet (H in ft.)” field from 0 to 10

Head above Crest of
Outlet (H in ft)

Head above Crest of Outlet

- System warns user upon saving, if value is greater than 10

Diameter/Breadth/ Width (Dia/B in ft.)

- Enter value in “Diameter/Breadth/ Width (Dia/B in ft.)” field from 0 to 10

Diameter/Breadth/
Width (Dia/B in ft)

Diameter/Breadth/ Width

- System warns user upon saving, if value is greater than 10

Remarks

- Enter remarks in “Remarks” text area

Remarks

- System accepts only 250 characters in remarks field

Save

- Click on “Save” button

Save

- System saves all data and navigates the user to main inspection notes screen and changes the color of inspection icon





Inspection of Outlet Alteration

Division	Sub Division	Channel Name	Outlet Name	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	800+600/L	07-Dec-2016	User Manual	

[Back](#)

- Click on “Back” button

[Back](#)

- System navigates user to main inspection notes screen without saving any provided data

Outlet Performance

- Click on Inspection Notes link from Outlet Performance inspection grid
-

Outlet Performance

Division	Sub Division	Channel Name	Outlet Name	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	800+600/L	07-Dec-2016	User Manual	

- System redirects the user to Outlet Performance inspection screen

Schedule and Inspections



Add Inspection Notes - Outlet Performance Inspection

Title User Manual	Status Approved	
Prepared By Sub Divisional Officer, SDO	From Date 07-Dec-2016	To Date 31-Dec-2016
Channel Name CRBC-III	Outlet Name 800600 / Left	Outlet Type Adjustable Proportional Module
Inspection Date <input type="text" value="13-Dec-2016"/>	Head above Crest of Outlet (H in ft) <input type="text"/>	Working Head (wh in ft) <input type="text"/>
Height of Outlet/Orifice (Y in ft) <input type="text"/>	Height of Outlet/Orifice <input type="text"/>	Diameter/Breadth/Width (Dia/B in ft) <input type="text"/>
Discharge (cusec) <input type="text"/>	Discharge <input type="text"/>	Efficiency (Observed Discharge/Design Discharge x 100) <input type="text"/>
Remarks <input type="text"/>		

[Save](#) [Back](#)

- System displays schedule title, schedule status, prepared by, from and to date, channel name, outlet name and outlet type on the top of the screen





Inspection Date

Inspection Date



13-Dec-2016



- Enter Inspection date in “Inspection Date” field using the calendar
- System does not allow to enter date which is not in-between From and To date of schedule
- System does not allow user to add future date in inspection date field

Head above Crest of Outlet (H in ft.)

Head above Crest of
Outlet (H in ft)

Head above Crest of Outlet

- Enter value in “Head above Crest of Outlet (H in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Working Head (wh in ft.)

Working Head (wh in
ft)

Working Head

- Enter value in “Working Head (wh in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Height of Outlet/Orifice (Y in ft.)

Height of
Outlet/Orifice (Y in ft)

Height of Outlet/Orifice

- Enter value in “Height of Outlet/Orifice (Y in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Diameter/Breadth/ Width (Dia/B in ft.)

Diameter/Breadth/
Width (Dia/B in ft)

Diameter/Breadth/ Width

- Enter value in “Diameter/Breadth/Width (Dia/B in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Discharge (cusec)

Discharge (cusec)

Discharge

- Enter value in “Discharge (cusec) field from 0 to 10





- System warns user upon entering value more than 10 on saving

Efficiency (Observed Discharge/Design Discharge x 100)

Efficiency (Observed
Discharge/Design
Discharge x 100)

40

- After entering value in Discharge (cusec) focus out from field
- System automatically calculates efficiency upon focusing out

Remarks

Remarks

- Enter remarks in “Remarks” text field
- System accepts only 250 characters in remarks field

Save

Save

- System saves all data and navigates user to main inspection notes screen and changes the color of inspection icon

Outlet Performance						
Division	Sub Division	Channel Name	Outlet Name	Date of Visit	Remarks	Action
CRBC	Sub Div No. I	CRBC-III	800+600/L	07-Dec-2016	User Manual	

Back

- Click on “Back” button

Back

- System navigates user to main inspection notes screen without saving any provided data





Tender Monitoring

- Click on Inspection Notes link from Tender Monitoring inspection

Tender Monitoring					
Division	Tender Notice	Work	Tender Opening Date	Remarks	Action
Kasur	Tender Notice 3	Structure Closure Work	07-Apr-2017		

- System redirects the user to the Evaluation Committee Attendance screen, when XEN is added inspection notes.
- The tabs of Committee Attendance, Contractor Attendance, Tender Price and Comparative Statement will be visible to XEN only.

Name	Designation	Alternate	Name	Designation
Muhammad Ali	SE	<input type="checkbox"/>		
Umair Malik	XEN	<input type="checkbox"/>		

Committee Attendance

Monitored By

- Select the value from the 'Monitored By' Drop down

Monitored By

Name

- Enter the Name in the 'Name' Text field

Name

Opened By

- Enter the information in 'Opened By' Text field





Opened By

Check Mark the Attendance

<input checked="" type="checkbox"/> Name	Designation	Alternate	Name	Designation
<input checked="" type="checkbox"/> Muhammad Ali	SE	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/> Umair Malik	XEN	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

- If user checks the Alternate check-box, system enables the Name and Designation

<input type="checkbox"/> Name	Designation	Alternate	Name	Designation
<input type="checkbox"/> Muhammad Ali	SE	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Umair Malik	XEN	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>

- Name and Designation is mandatory , in case user checks the Alternate check-box

Attach Attendance Sheet

Attach Attendance Sheet

No file chosen

- Click on “Choose File” button to upload file of Attendance Sheet
- After clicking on “Choose File” a window opens to select file to be uploaded
- Select file to upload on Committee Attendance screen
- System accepts files of image formats doc & pdf
- After selecting the file, on Committee Attendance screen system shows that file is selected

Attach Attendance Sheet

Enter B Value.PNG

Save & Proceed

- Click on Save & Proceed button, system checks for the mandatory fields
- If any of the mandatory field is not entered , system displays a message
- Upon clicking the save & proceed button , system saves the record successfully & moves to the ‘Contractor Attendance’ screen

Back

- Click on “Back” button

- System navigates user to Tender Work screen without saving any provided data





Contractor Attendance

Tenders Management

Contractors Attendance

Tender Notice
Tender Notice 3

Work/Tender Name
Structure Closure Work

Work Type
Electrical/ Mechanical

Committee Attendance	Contractors Attendance	Tender Price	ADM Report	Comparative Statement
Monitored By	ADM	Name	ADM ADM	
<input type="checkbox"/> Company Name	Alternate	Contractor Name	Remarks	
<input type="checkbox"/> Qamar International	<input type="checkbox"/>			
<input type="checkbox"/> Malik Traders	<input type="checkbox"/>			
<input type="checkbox"/> Rajpoot Ali Co	<input type="checkbox"/>			
<input type="checkbox"/> Afzal Electronics	<input type="checkbox"/>			
<input type="checkbox"/> Dawood Corporation	<input type="checkbox"/>			

Attach Attendance Sheet No file chosen

Activate Windows

- Monitored by & Name field should be auto populated & system fetches these values from the committee attendance screen
- These two fields are disabled

Check Mark the Attendance

- Check Mark the Attendance against the Company Name

<input checked="" type="checkbox"/> Company Name	Alternate	Contractor Name	Remarks
<input checked="" type="checkbox"/> Qamar International	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Malik Traders	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Rajpoot Ali Co	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Afzal Electronics	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Dawood Corporation	<input type="checkbox"/>		

- Upon checking the Alternate check-box

<input checked="" type="checkbox"/> Company Name	Alternate	Contractor Name	Remarks
<input checked="" type="checkbox"/> Qamar International	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Malik Traders	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Rajpoot Ali Co	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Afzal Electronics	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/> Dawood Corporation	<input checked="" type="checkbox"/>		

- When user checks the Alternate check-box, Contractor name becomes mandatory





Attach Attendance Sheet

Attach Attendance Sheet No file chosen

- Click on “Choose File” button to upload file of Attendance Sheet
- After clicking on “Choose File” a window opens to select file to be uploaded
- Select file to upload on Contractor Attendance screen
- System accepts files of image formats doc & pdf
- After selecting the file, on Contractor Attendance screen system shows that file is selected

Attach Attendance Sheet Enter B Value.PNG

Save & Proceed

- Click on Save & Proceed button, system checks for the mandatory fields
- If any of the mandatory field is not entered , system displays a message
- Upon clicking the save & proceed button , system save the record successfully & moves to the ‘Tender Price’ screen

Back

- Click on “Back” button

- System navigates user to Committee Attendance screen without saving any provided data

Back to Tender Work

- Click on ‘Back to Tender Work’ screen , system moves the user to Tenders Monitoring module’s main Tender Work screen without saving the record





Tender Price

Tenders Management

Tender Price

Tender Notice
Tender Notice 3

Work/Tender Name
Structure Closure Work

Work Type
Electrical/ Mechanical

Committee Attendance	Contractors Attendance	Tender Price	ADM Report	Comparative Statement	
Company Name	Select		%		
Estimate	Select				
Item Description	Sanctioned Quantity	Unit	Sanctioned Rate(Rs)	Rate By Contractor(Rs)	Amount(Rs)
item	2000	KGs	5.00		
item 3	400	Sft	10.00		
stone	500	Numbers	150.00		
			Total		0.00
Call Deposit No	Bank Detail	Amount(Rs)	Call Deposit Receipt	+	
No Record Found					
		Total	0.00		

Activate Windows
Go to Settings to activate Windows.

Company Name

Company Name Select

- Select the company name from the 'Company Name' drop down

Estimate

Estimate Select

- Select the Estimate value from the 'Estimate' drop down

Percentage

%

- By default percentage field is disabled, this field is enabled only if user selects the Above T.S and Below T.S value from the Estimate drop down

Estimate %

- Enter the percentage value in the "Percentage" text field
- Amount Rs. & Rate by Contractor value will be updated on the selection of the Estimate & Entered Percentage





Add Button (Call Deposit Rupee)



- Click on Add button , System opens the grid to add the Call Deposit Rupee

Call Deposit No	Bank Detail	Amount(Rs)	Call Deposit Receipt	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="file"/> Choose File No file chosen	
			Total 0.00	

[Save](#) [Back](#) [Back to Tender Work](#)

- Enter the Call Deposit No in the above mention ‘Call Deposit No’ text field
- Enter the Bank Detail in the ‘Bank Detail’ text field
- Enter the amount in the ‘Amount(Rs)’ text field
- Select the file to be uploaded
- Click on button to delete the record from the grid

Save



- Click on Save button, system save all data in the database

Back

- Click on “Back” button



- System navigates the user to Contractor Attendance screen without saving any provided data

Back to Tender Work

[Back to Tender Work](#)

- Click on ‘Back to Tender Work’ screen, system moves the user to Tenders Monitoring module’s main Tender Work screen without saving the record





ADM Reports

This tab will be visible to only ADM.

WATER RESOURCE MANAGEMENT INFORMATION SYSTEM
Assistant Director Monitoring WT [ADM] ▾

- [User Administration >](#)
- [Irrigation Network >](#)
- [Water Theft >](#)
- [Irrigator Feedback >](#)
- [Complaints >](#)
- [Schedule & Inspect. >](#)
- [Closure Operations >](#)
- Tender Management**
 - [Search Tender Notice](#)
 - [Add Tender Notice](#)
- [Performance Eval. >](#)
- [Seasonal Planning >](#)
- [Water Losses >](#)
- [Assets and Works >](#)

Tenders Management

ADM Report

Tender Notice
Tender Notice 3

Work/Tender Name	Structure Closure Work			Work Type	Electrical/ Mechanical	
Committee Attendance	Contractors Attendance	Tender Price	ADM Report	Comparative Statement		
Submission Time 02:22 PM	Actual Submission Time <input checked="" type="checkbox"/> Same 04 : 14 PM	Reason				
Opening Time 02:22 PM	Actual Opening Time <input checked="" type="checkbox"/> Same 04 : 14 PM	Reason				
Sold Count 5	Submitted Count 5					
Rejected Contractors						
Contractor Name	Earnest Money (Rs)	Call Deposit Amount (Rs)	Reason	Rejected		
Qamar International	500	500		<input type="checkbox"/>		
Malik Traders	500	500		<input type="checkbox"/>		
Rajpoot Ali Co	500	500		<input type="checkbox"/>		
Afzal Electronics	500	500		<input type="checkbox"/> Activate Windows Go to Settings to activate Windows.		
Dawood Corporation	500	500		<input type="checkbox"/>		
Observations						
<input type="checkbox"/> Tender Box was empty prior to cast the tenders. <input type="checkbox"/> All the rates were noted at the time of opening. <input type="checkbox"/> All the members were present in the tendering process. <input type="checkbox"/> Snaps/Videos were taken and photography of all the bids was controlled. <input type="checkbox"/> XEN was requested to send the comparative statement as early as possible.						
Upload received Tenders <input type="button" value="Choose Files"/> No file chosen Upload snap/video <input type="button" value="Choose Files"/> No file chosen						
<input type="checkbox"/> Cancel Tender Reason <input type="text"/>						
Save Back Back to Tender Work						

Activate Windows
Go to Settings to activate Windows.

- In Actual Submission / Opening Time, the checkbox of 'Same' is checked by default. If user unchecks the 'Same' checkbox, 'Reason' text field will be enabled and is mandatory to enter.
- If Call Deposit Amount is less than the Earnest Money then Rejected checkbox will be checked by default & system displays reason from the database





Observations

Observations

- Tender Box was empty prior to cast the tenders.
- All the rates were noted at the time of opening.
- All the members were present in the tendering process.
- Snaps/Videos were taken and photography of all the bis was controlled.
- XEN was requested to send the comparative statement as early as possible.
 - Enter the Observations in the 'Observation' Text field
 - Check mark the Observations options under the observation text field

Uploads

Upload received Tenders	<input type="button" value="Choose Files"/> No file chosen
Upload snap/video	<input type="button" value="Choose Files"/> No file chosen

- Click on Choose Files to upload the Received Tenders file
- Click on Choose Files to upload the Snap/Video

Cancel

<input type="checkbox"/> Cancel Tender	Reason
<input checked="" type="checkbox"/> Cancel Tender	Reason

- Click on Cancel Tender checkbox , System enable the Reason text field
- Enter the Reason in the 'Reason' Text field , this field is mandatory

Save

Save

- Click on Save button, system save all data in the database





Back

- Click on “Back” button

[Back](#)

- System navigates the user to Tender Price screen without saving any provided data

Back to Tender Work

[Back to Tender Work](#)

- Click on ‘Back to Tender Work’ screen, system moves the user to Tenders Monitoring module’s main Tender Work screen without saving the record

Comparative Statements

- Click on Comparative statements tab. This tab will be visible to XEN.

RATE AS PER T.S. ESTIMATE				RATE QUOTED BY CONTRACTOR														
ItemDescription	Sanctioned Qty	Sanctioned Rate	Sanctioned Total	Afzal Electronics	Dawood Corporation	Malik Traders	Qamar International	Rajpoot A	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
item	2000	5.00	10,000.00	1,000.00	2,000,000.00	5.00	10,000.00	5.25	10,500.00	5.00	10,000.00	4.90	9;					
item 3	400	10.00	4,000.00	400.00	160,000.00	10.00	4,000.00	10.50	4,200.00	10.00	4,000.00	9.80	3;					
stone	500	150.00	75,000.00	500.00	250,000.00	150.00	75,000.00	157.50	78,750.00	150.00	75,000.00	147.00	73;					

- System displays the comparative statement

Award Contractor

- Check mark the Award Contractor checkbox, system displays all the contractors & amount.





Tenders Management

Comparative Statement

Tender Notice		Work Type		
Tender Notice 3		Electrical/ Mechanical		
Work/Tender Name	Structure Closure Work			
Committee Attendance	Contractors Attendance	Tender Price	ADM Report	Comparative Statement
<input type="radio"/> View Comparative Statement <input checked="" type="radio"/> Award Contractor Rate as Per Technical Sanctioned Estimate (Rs): 89,000.00				
Contractors	Amount	Award	Remarks	
Rajpoot Ali Co	87,220	<input checked="" type="radio"/>	Lowest Amount Bidder.	
Qamar International	89,000	<input type="radio"/>		
Dawood Corporation	89,000	<input type="radio"/>		
Malik Traders	93,450	<input type="radio"/>		
Afzal Electronics	2,410,000	<input type="radio"/>		

[Save](#) [Back to Tender Work](#)

Activate Windows

- Lowest money is selected by default with Remarks.

Save

[Save](#)

- Click on Save button, system saves all data in the database & system updates the status as “Awarded” on Tender Work

Back to Tender Work

[Back to Tender Work](#)

- Click on ‘Back to Tender Work’ screen , system moves the user to Tenders Monitoring module’s main Tender Work screen without saving the record

Works Inspections

- Click on Inspection Notes link  from Work inspection grid

Works Inspections					
Division	Work Source	Work	Monitoring Date	Remarks	Action
Kasur	WORKS	Structure Closure Work	27-Mar-2017		

- System redirects the user to the add work progress screen





C WATER RESOURCE MANAGEMENT INFORMATION SYSTEM

User Administration >

Irrigation Network >

Daily Data >

Water Theft >

Irrigator Feedback >

Complaints >

Schedule & Inspect. >

Closure Operations >

Closure Work Plan

Reference Data >

Technical Sanction Units

Closure Work Type

Funding Source

Tender Management >

Performance Eval. >

Closure Operations

Add Work Progress

Closure Work Plan Title	Year
NEW Closure Work Plan	2017-2018
Closure Work Name	Division
Structure Closure Work	Kasur
Closure Work Type	Previous Progress (%)
Electrical/ Mechanical	
Previous Progress Dated	
Inspection Date	28-Mar-2017
Approximate Progress (%)	
Attachment	Choose File No file chosen
	Choose File No file chosen
Work Status	In Progress
Remarks	

Save **Back**

- System displays the parent information of the closure work plan, if the work is of type Closure Work.
- System displays the parent information of the work, if the work is of type other than closure work.
- System displays the last entered Progress Date and Previous Percentage for the logged-on user
- System will determine the Closure Work Type. If the Closure Work Type is Desilting, then the parameters would be different for taking progress
- For Desilting closure work type , system displays two extra fields (Quantity of Silt Removed, Length of Channel) on add work progress screen

Inspection Date

Inspection Date 28-Mar-2017

- Enter the inspection date from 'Inspection Date' using the calendar

Work Status

Work Status In Progress

- Select the status from the 'Work Status' drop down

Approximate Progress (%)

Approximate Progress (%)

- Enter the progress in the 'Approximate Progress (%)' text field
- Progress Percentage should not be greater than 100





Remarks

Remarks

- Enter the remarks in the 'Remarks' text field
- System accepts only 250 characters in remarks field

Attachment

Attachment

Choose File	No file chosen

- Click on Choose File , system open a window to select the file to be uploaded
- User selects maximum 5 attachment

Save

Save

- Click on save button to save the record
- System check for the mandatory fields , if any mandatory fields are missing then system displays a message
- If user enters the progress more than 100% in the 'Approximate Progress (%)' then system displays a message "Progress percentage cannot be greater than 100"
- System checks for the Approximate Progress Percentage. If the previous added percentage (of the logged-on user) is less than or equal to the 'Approximate progress (%)' value then system moves ahead. If not, then system shows a message:
"The previous progress percentage is greater than the entered one"
- System checks, if the Inspection Date is greater than the current date then system displays a message
"Inspection Date cannot be greater than current date"





Back

- Click on “Back” button

[Back](#)

- System navigates the user to Closure Work Plan Detail screen without saving any provided data; if the work is of type Closure Work
- System navigates the user to Work Details screen without saving any provided data; if the work is of other than Closure Work.

General Inspection

- Click on Inspection Notes link from General inspection grid

General Inspections

Inspection Type	Location	Schedule Date	Remarks	
Select				

- System redirects the user to the General Inspection screen

- System displays the schedule details in header
- By default Inspection type , Inspection Date & location is selected
- Inspection Type is disabled & user can only edit the inspection date & location





Inspection Detail

Inspection Details

- Enter the Inspection details in the ‘Inspection Detail’ text area
- System accepts only 250 characters in Inspection detail text area

Remarks

Remarks

- Enter the remarks in the ‘Remarks’ text field
- System accepts only 250 characters in remarks field

Attachment

Attachment

Choose File	No file chosen

- Click on Choose File , system open a window to select the file to be uploaded
- User selects maximum 5 attachments

Save

Save

- Click on save button to save the record, system prompt a message “Are you sure you want to save this record?”
- Click on yes button, System save the record successfully
- System checks for the mandatory fields, if any mandatory fields are missing than system displays a message





Back

- Click on “Back” button

[Back](#)

- System navigates the user to Inspection Notes screen without saving any provided data

6 Unscheduled Inspections

Search Criteria for Outlet Performance

Business User: Monitoring Assistant (MA), Assistant Director Monitoring (ADM), SDO, XEN

- Click on Outlet Performance link under the Unscheduled inspection from left menu
- System displays search screen for outlet performance against unscheduled inspection

Schedule and Inspections

Search Criteria For Outlet Performance

Command Name: All

Flow type: All

Channel Type: All

Channel Name: All

Search Channel

Command Name

- Select command name from “Command Name” dropdown

Command Name:

Channel Type

- Select channel type form “Channel type” dropdown

Channel Type:

Flow Type

- Select flow type from “Flow Type” dropdown





Flow type

All

Channel Name

- Select channel name from “Channel Name” dropdown

Channel Name

All

Search Channel

- Click on search channel button

Search Channel

- The system lists down the records on the basis of combined filtration of given criteria

Search Criteria For Outlet Performance

Command Name

All

Channel Type

All

Flow type

All

Channel Name

All

Search Channel

Channel Name	Channel Type	Flow type	Total R.Ds	Command Name	Channel Outlets in Sections
CRBC-III	Main Canal	Perennial	848+700	Indus Command	
D-24	Distributary Major	Perennial	30+197	Indus Command	
D-24A	Distributary Major	Perennial	33+880	Indus Command	
D-25	Distributary Major	Perennial	48+334	Indus Command	
D-25 Escape Regulator	Escape Channel	Perennial	0+000	Indus Command	
MD-25	Distributary Minor	Perennial	19+586	Indus Command	
D-26	Distributary Major	Perennial	4+453	Indus Command	
D-27	Distributary Major	Perennial	35+247	Indus Command	
D-27 Escape Regulator	Escape Channel	Perennial	0+000	Indus Command	
MD-27	Distributary Minor	Perennial	25+266	Indus Command	

1 2 3 4

- If no criteria is provided, list of all channels within the logged-on user's Division/Sub Division is populated
- If no Channel is available for the matching criteria, system shows a message of No Record Found





Schedule and Inspections



Search Criteria For Outlet Performance

Command Name	Jhelum Chenab Command	Channel Type	Escape Channel
Flow type	All	Channel Name	All

Search Channel

Channel Name	Channel Type	Flow type	Total R.Ds	Command Name	Channel Outlets in Sections
No Channel is found for the given criteria					



- Click on Outlet button from the Search result
- System navigates the user to Locate Specific Outlet screen

Schedule and Inspections



Locate Specific Outlet

Channel Name CRBC-III	Channel Type Main Canal	Total R.Ds. (ft) 848+700
Flow type Perennial	Command Name Indus Command	IMIS code
Section Name Section-I		

Back

Outlet R.D & Side	Outlet type	Village Name	Design discharge (Cusec)	Design Diameter/Width (ft)	Height of Outlet (Y in ft)	Head Above Crest (H in ft)	Submergence (h in ft)	Crest Reduced Level (ft)	Minimum Modular Head (mmh in ft)	Working Head (wh in ft)	Outlet Performance	Outlet Performance History
800+600/L	APM		5	5	5	5	0	5	5	5		

7 Unscheduled Inspection Notes- Outlet Performance

- Click on Outlet Performance icon to enter unscheduled inspections
- System redirects the user to the Outlet Performance Data screen





Schedule and Inspections



Outlet Performance Data

Channel Name CRBC-III	Channel Type Main Canal	Outlets R.Ds. (ft) 800+600
Outlet Side Left	Police station	Village
Outlet Type Adjustable Proportional Module		
Date of Observation <input type="text" value="15-Dec-2016"/>	Working Head (wh in ft) <input type="text"/>	Diameter/Breadth/Width (Dia/B in ft) <input type="text"/>
Head Above Crest of Outlet (H in ft) <input type="text"/>	Height of Outlet/Orifice (Y in ft) <input type="text"/>	Diameter/Breadth/Width (Dia/B in ft) <input type="text"/>
Discharge (Cusec) <input type="text"/>	Efficiency (Observed Discharge/Design Discharge x 100)% <input type="text"/>	
<input type="button" value="Save"/> <input type="button" value="Back"/>		

- System displays basic information such as Channel name, channel type, Outlet R.Ds, Outlet Side and Outlet Type on the top of the screen

Observation Date

- Select observation date in “Date of Observation” field using the calendar

Date of Observation

- User only enter the current and previous date from the ‘Date of Observation’
- System does not allow user to enter future date in inspection date field

Head above Crest of Outlet (H in ft.)

Head above Crest of Outlet (H in ft)
 Head above Crest of Outlet

- Enter value in “Head above Crest of Outlet (H in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Working Head (wh in ft.)

Working Head (wh in ft)
 Working Head

- Enter value in “Working Head (wh in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Height of Outlet/Orifice (Y in ft.)

Height of Outlet/Orifice (Y in ft)
 Height of Outlet/Orifice





- Enter value in “Height of Outlet/Orifice (Y in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Diameter/Breadth/ Width (Dia/B in ft.)

Diameter/Breadth/
Width (Dia/B in ft)

Diameter/Breadth/ Width

- Enter value in “Diameter/Breadth/Width (Dia/B in ft.)” field from 0 to 10
- System warns user upon entering value more than 10 on saving

Discharge (cusec)

Discharge (cusec)

Discharge

- Enter value in “Discharge (cusec) field from 0 to 10
- System warns user upon entering value more than 10 on saving

Efficiency (Observed Discharge/Design Discharge x 100)

Efficiency (Observed
Discharge/Design
Discharge x 100)

40

- After entering value in Discharge (cusec) focus out from field
- System automatically calculates efficiency upon focusing out

Remarks

Remarks

- Enter remarks in “Remarks” field
- System accepts only 250 characters in remarks field

Save

- Click on “Save” button

Save

- System saves all data and navigates user to Locate Specific screen

Back

- Click on “Back” button





[Back](#)

- System navigates the user to Locate Specific screen without saving the record

8 Outlet Performance History

- Click on Outlet Performance History button from the locate specific outlet screen
- System redirects the user to Outlet Performance History screen

Schedule and Inspections

Outlet Performance History

Channel Name	Channel Type	Total R.Ds. (ft)
CRBC-III	Main Canal	848+700
Flow Type	Command Name	Outlet R.Ds. (ft)
Perennial	Indus Command	800+600
Outlet Side	District	Tehsil
Left	Village	IMIS Code
Police Station		

From Date To Date

[Show History](#) [Back](#)

- System displays basic information such as Channel name, channel type, Outlet R.Ds, Outlet Side and Outlet Type on the top of the screen

From and To date

- Select From and To date to see Outlet Performance history against any time period

From Date To Date

Show History

- Click on “Show History” button to show history for selected dates

[Show History](#)

- System displays history according to selection criteria
- If user enters the From Date which is greater than To Date , system display a message “To Date should be greater than or equal to From Date”





Outlet Performance History

Channel Name CRBC-III	Channel Type Main Canal	Total R.Ds. (ft) 848+700
Flow Type Perennial	Command Name Indus Command	Outlet R.Ds. (ft) 800+600
Outlet Side Left	District	Tehsil
Police Station	Village	IMIS Code

From Date To Date 15-Dec-2016

[Show History](#) [Back](#)

Head above Crest of Outlet (H in ft)	Working Head (wh in ft)	Observed Discharge (cusec)	Efficiency %
12	12	12	240
2	2	2	40
2	2	2	40
1	2	3	60
2	2	3	60
12	12	12	240
		15	300
8	7	2	40

- If no history is available for the matching criteria, system shows a message of No Record Found

Head above Crest of Outlet (H in ft)	Working Head (wh in ft)	Observed Discharge (cusec)	Efficiency %
No record is found for the given dates			

Back

- Click on Back button

[Back](#)

- System redirects the user to Locate Specific screen

9 Search Criteria for Inspection of Outlet Alteration

Business Users: MA, ADM

- Click on Inspection of Outlet Alteration link under the Unscheduled from the left menu
- System displays search screen for outlet alteration against unscheduled inspection





Schedule and Inspections



Search Criteria For Outlet Alteration

Command Name	<input type="text" value="All"/>	Channel Type	<input type="text" value="All"/>
Flow type	<input type="text" value="All"/>	Channel Name	<input type="text" value="All"/>

Search Channel

Command Name

- Select command name from “Command Name” dropdown

Command Name	<input type="text" value="All"/>
--------------	----------------------------------

Channel Type

- Select channel type form “Channel type” dropdown

Channel Type	<input type="text" value="All"/>
--------------	----------------------------------

Flow Type

- Select flow type from “Flow Type” dropdown

Flow type	<input type="text" value="All"/>
-----------	----------------------------------

Channel Name

- Select channel name from “Channel Name” dropdown

Channel Name	<input type="text" value="All"/>
--------------	----------------------------------

Search Channel

- Click on search channel button

Search Channel

- The system lists down the records on the basis of combined filtration of given criteria





Schedule and Inspections



Search Criteria For Outlet Alteration

Command Name	All	Channel Type	All
Flow type	All	Channel Name	All

Search Channel

Channel Name	Channel Type	Flow type	Total R.Ds	Command Name	Channel Outlets in Sections
CRBC-III	Main Canal	Perennial	848+700	Indus Command	
D-24	Distributary Major	Perennial	30+197	Indus Command	
D-24A	Distributary Major	Perennial	33+880	Indus Command	
D-25	Distributary Major	Perennial	48+334	Indus Command	
D-25 Escape Regulator	Escape Channel	Perennial	0+000	Indus Command	
MD-25	Distributary Minor	Perennial	19+586	Indus Command	
D-26	Distributary Major	Perennial	4+453	Indus Command	
D-27	Distributary Major	Perennial	35+247	Indus Command	
D-27 Escape Regulator	Escape Channel	Perennial	0+000	Indus Command	
MD-27	Distributary Minor	Perennial	25+266	Indus Command	

- If no criteria is provided, list of all channels within the logged-on user's jurisdiction of Division/Sub Division is populated
- If no Channel is available for the matching criteria, system shows a message of No Record Found

Schedule and Inspections



Search Criteria For Outlet Alteration

Command Name	Jhelum Chenab Command	Channel Type	All
Flow type	All	Channel Name	D-24

Search Channel

Channel Name	Channel Type	Flow type	Total R.Ds	Command Name	Channel Outlets in Sections
No Channel is found for the given criteria					



- Click on Outlets button from the search results
- System navigates the user to Locate Specific Outlet screen





Schedule and Inspections

Locate Specific Outlet

Channel Name CRBC-III	Channel Type Main Canal	Total R.Ds. (ft) 848+700																								
Flow type Perennial	Command Name Indus Command	IMIS code																								
Section Name Section-I																										
Back																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Outlet R.D & Side</th><th>Outlet type</th><th>Village Name</th><th>Design discharge (Cusec)</th><th>Design Diameter/Width (ft)</th><th>Height of Outlet (Y in ft)</th><th>Head Above Crest (H in ft)</th><th>Submergence (h in ft)</th><th>Crest Reduced Level (ft)</th><th>Minimum Modular Head (mmh in ft)</th><th>Working Head (wh in ft)</th><th>Outlet Alteration</th></tr> </thead> <tbody> <tr> <td>800+600/L</td><td>APM</td><td></td><td>5</td><td>5</td><td>5</td><td>5</td><td>0</td><td>5</td><td>5</td><td>5</td><td></td></tr> </tbody> </table>			Outlet R.D & Side	Outlet type	Village Name	Design discharge (Cusec)	Design Diameter/Width (ft)	Height of Outlet (Y in ft)	Head Above Crest (H in ft)	Submergence (h in ft)	Crest Reduced Level (ft)	Minimum Modular Head (mmh in ft)	Working Head (wh in ft)	Outlet Alteration	800+600/L	APM		5	5	5	5	0	5	5	5	
Outlet R.D & Side	Outlet type	Village Name	Design discharge (Cusec)	Design Diameter/Width (ft)	Height of Outlet (Y in ft)	Head Above Crest (H in ft)	Submergence (h in ft)	Crest Reduced Level (ft)	Minimum Modular Head (mmh in ft)	Working Head (wh in ft)	Outlet Alteration															
800+600/L	APM		5	5	5	5	0	5	5	5																

10

11 Unscheduled Inspection Notes- Inspection of Outlet Alteration

- Click on Outlet Alteration icon for unscheduled inspection against Outlet Alteration
- System redirects the user to Outlet Alteration Data screen

Schedule and Inspections

Outlet Alteration Data

Channel Name CRBC-III	Outlets R.Ds. (ft) 800+600	Outlet Type Adjustable Proportional Module
Inspection Date <input type="text" value="15-Dec-2016"/>	Height of Outlet/Orifice (Y in ft)	Head above crest of Outlet (H in ft)
Working Head (wh in ft)		Diameter/Breadth/Width (Dia/B in ft)
Remarks <input type="text"/>		
Save	Back	

- System displays basic information such as Channel Name, Outlet R.Ds and Outlet Type on the top of the screen

Inspection Date

- Enter Inspection date in "Inspection Date" field using the calendar

Inspection Date



08-Dec-2016



- User can only enter the current and previous date from the 'Inspection Date'





- System does not allow user to add future date in inspection date field

Height of Outlet/Orifice (Y in ft.)

- Enter value of height of outlet/orifice in “Height of Outlet/Orifice (Y in ft.)” field from 0 to 10

Height of
Outlet/Orifice (Y in ft) Height of Outlet/Orifice

- System warns user upon entering value more than 10 on saving

Working Head (ft.)

- Enter value in “Working Head (ft.)” field from 0 to 10
- System warns user upon saving if value exceeds from 10

Working Head (ft) Working Head

Head above Crest of Outlet (H in ft.)

- Enter value in “Head above Crest of Outlet (H in ft.)” field from 0 to 10

Head above Crest of
Outlet (H in ft) Head above Crest of Outlet

- System warns user upon saving if value is greater than 10

Diameter/Breadth/ Width (Dia/B in ft.)

- Enter value in “Diameter/Breadth/ Width (Dia/B in ft.)” field from 0 to 10

Diameter/Breadth/
Width (Dia/B in ft) Diameter/Breadth/ Width

- System warns the user upon savingif valueis greater than 10
-

Remarks

- Enter remarks in “Remarks” field

Remarks

- System accepts only 250 characters in remarks field





Save

- Click on “Save” button

- System saves all data and navigates user to main Locate Specific Outlet screen

Back

- Click on “Back” button

System saves all data and navigates user to main Locate Specific Outlet screen

12 Unscheduled Inspection Notes- General Inspection

Business Users: MA, ADM, SDO, XEN

- Click on General Inspections link under the Unscheduled inspection
- System navigates the user to the General Inspection screen

Inspection Type

- Select the inspection type from the ‘Inspection Type’ drop down.
- These types are populated from Reference data

Inspection Date

- Select the inspection date from the ‘Inspection date’ field using the calendar





Inspection Date	<input type="text" value="28-Mar-2017"/>	
-----------------	--	--

- User can enter the current and previous date from the 'Inspection Date'
- System does not allow user to add future date in inspection date field

Location

- Enter the location in the 'Location' text field

Location

Inspection Detail

Inspection Details

- Enter the Inspection details in the 'Inspection Detail' text field
- System accepts only 250 characters in Inspection detail text field

Remarks

Remarks

- Enter the remarks in the 'Remarks' text field
- System accepts only 250 characters in remarks field

Attachment

Attachment

<input type="button" value="Choose File"/>	No file chosen
<input type="button" value="Choose File"/>	No file chosen
<input type="button" value="Choose File"/>	No file chosen
<input type="button" value="Choose File"/>	No file chosen
<input type="button" value="Choose File"/>	No file chosen

- Click on Choose File , system opens a window to select the file to be uploaded
- User can select maximum 5 attachment

Save





Save

- Click on save button to save the record, system prompt a message “Are you sure you want to save this record?”
- Click on Yes button, System checks for mandatory fields, if any mandatory field is missing then system displays a message
- If mandatory fields are entered then system saves the record successfully & navigates the user to the search inspection screen
-

13 Search Inspections

- Click on “Search Inspection” link from left panel
- System redirects the user to Search Inspections screen

The screenshot shows the 'Schedule and Inspections' page. On the left, there's a navigation menu with 'User Administration', 'Irrigation Network', 'Daily Data', 'Water Theft', 'Irrigator Feedback', and 'Schedule & Inspect.' expanded. Under 'Schedule & Inspect.', there are links for 'Schedule Calendar', 'Prepare Schedule', 'Search Schedule', 'Unscheduled Inspect.', 'Outer Performance', and 'Inspection of Oudet Alteration'. Below this is another section for 'Search Inspection' with links for 'Complaints', 'Water Losses', 'Seasonal Planning', and 'Perform. Evaluation'. At the top right, it says 'Sub Divisional Officer (SDO)' with a bell icon. The main area has a title 'Search Inspection' and several dropdown filters: Zone (D G Khan), Circle (Derajat), Sub Division (Sub Div No. I), From Date (13-Nov-2016), To Date (13-Dec-2016), Inspection Type (All), and Inspection Category (Gauge Inspection). A 'Search' button is at the bottom of the filter panel.

Zone

Zone

All

- Select zone from the ‘Zone’ drop down.
- On selection of zone, relevant circles are populated in the circle dropdown.

Circle





Circle

All



- Select circle from the ‘Circle’ dropdown.
- On selection of circle, relevant divisions are populated in the division dropdown

Division

Division

All



- Select division from the ‘Division’ dropdown.
- On selection of division, relevant sub divisions are populated in the Sub Division dropdown.

Sub Division

Sub Division

All



- Select sub division from the ‘Sub Division’ dropdown.

From and to date

From Date



05-Dec-2016



To Date



04-Jan-2017



- Select From and To date from “From and To date” dropdowns respectively
- Selected From date should not be greater than selected To date

Inspection Type

- Select Inspection type as: Scheduled or Unscheduled from “Inspection type” dropdown

Inspection Type

All



Inspection Category

- Select inspection category from “Inspection Category” dropdown





Inspection Category

Gauge Insepction



Search

Search

- After setting all searching criteria click on “Search” button
- System displays results as per search criteria
- Click on view button to view details of respective inspection
- Upon clicking on view button, system displays respective inspection in view mode
- System determines the type of inspection e.g. Scheduled or Unscheduled and displays search results accordingly
- System determines inspection category e.g. Gauge Inspection, Discharge Calculation, Inspection of Outlet Alteration ,Outlet Performance, Tender Monitoring , Work Inspection and General inspection and displays relevant screen upon clicking the “View” icon

14 Reference Data – General Inspection Type

- Click on General Inspection type under the Reference Data from the left menu
- System redirects the user to General Inspection Type screen

Add General Inspection Type

- Click on Add button to add the general inspection type
- System displays a grid to add the general inspection type





Schedule and Inspections

General Inspection Types

Inspection Name	Description	Active	
Meeting		True	
Visit		True	
<input type="text" value="Enter Inspection Name"/>	<input type="text" value="Enter Description"/>	<input checked="" type="checkbox"/>	

- Enter the inspection name in the 'Inspection Name' text field
- Enter the description in the 'Description' text field
- Click on save button, to save the record successfully
- Click on edit button, If user wants to update/modify the general inspection type, system displays the record in editable mode in the grid

Schedule and Inspections

General Inspection Types

Inspection Name	Description	Active	
<input type="text" value="Meeting"/>	<input type="text" value="Enter Description"/>	<input checked="" type="checkbox"/>	

- Modify the record & click on save button, to save the record successfully.
- If user clicks on cancel button system cancels the record without saving.
- Click on delete button to delete the record from the grid, system prompt a message "Are you sure you want to delete this record?"
- Click on Yes button , system delete the record successfully
- If the record is associated with another record, system does not allow the user to delete the record & displays a message "Record cannot be deleted. Associate with another record"

15 Schedule & Inspection (Android)

Through Android application, Schedule & Inspection module provide an interface to add Scheduled & Unscheduled Inspections..

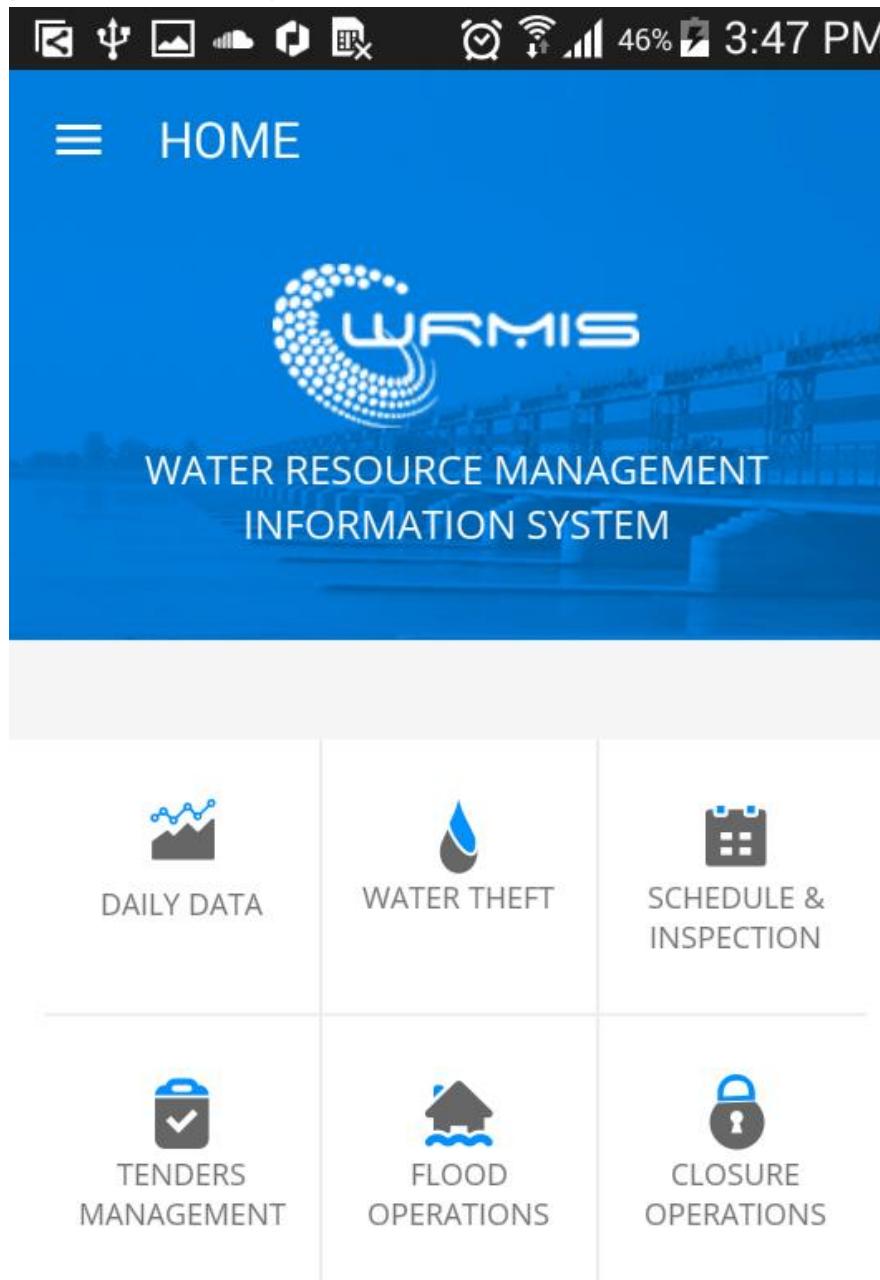
Once the Inspections are added through android, user can search and view these inspections from the Web application





Business User: SDO, XEN, MA, ADM

Any other user can access "Schedule & Inspection" based on assigned rights from Roles and Rights (User Administration)



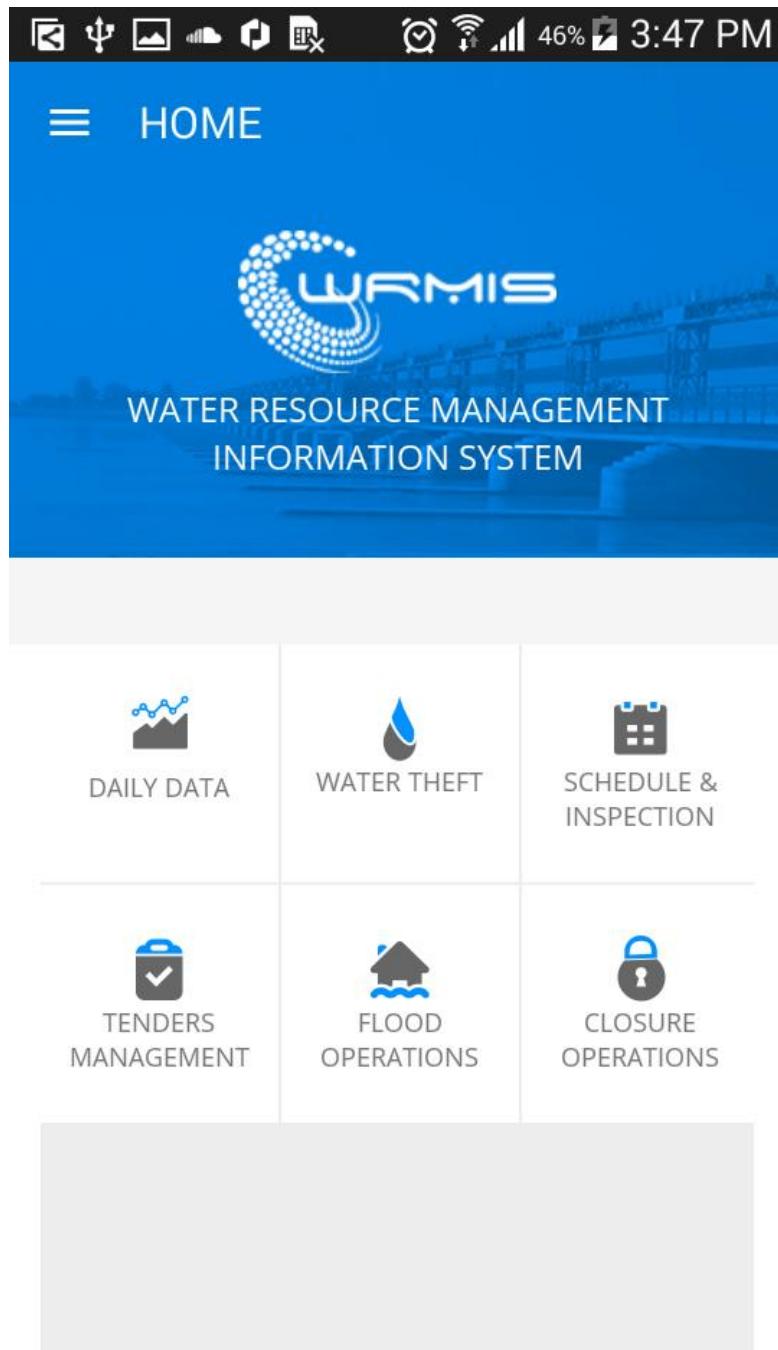
Pre-Requisite: Schedule & Inspection Role and Rights should be assigned to respective user correctly.



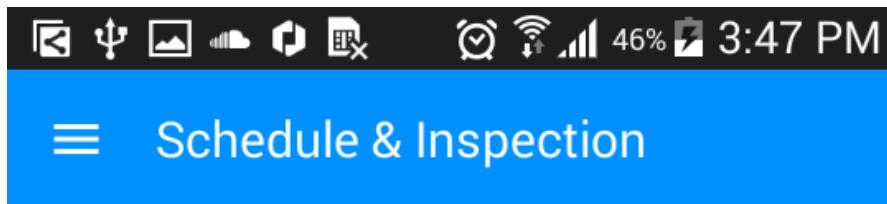


[View Schedule & Inspection Calendar](#)

- Login to the Application with the correct credentials
- Application redirects the user to the Home screen



- Tap on the Schedule & Inspection from the main menu
- Application redirects the user to the Schedule & Inspection Calendar screen



March - 2017

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30		31	

- The dates for which schedule details have been added are highlighted
- The Current Date is encircled with red color
- Application displays the inspection with details along with inspection button
- Inspection button is displayed against the approved schedule only, if the inspection has already been entered then application displays the view button instead of add button & user can view the record in read only mode



Schedule & Inspection

March - 2017

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30		31	

Gague Inspection
Kasur, Attari Akike Minor

Approved

Head



Gague Inspection
Kasur, Attari Akike Minor

Approved

Tail



Gague Inspection
Kasur, Attari Akike Minor

Pending For
Approval

Head

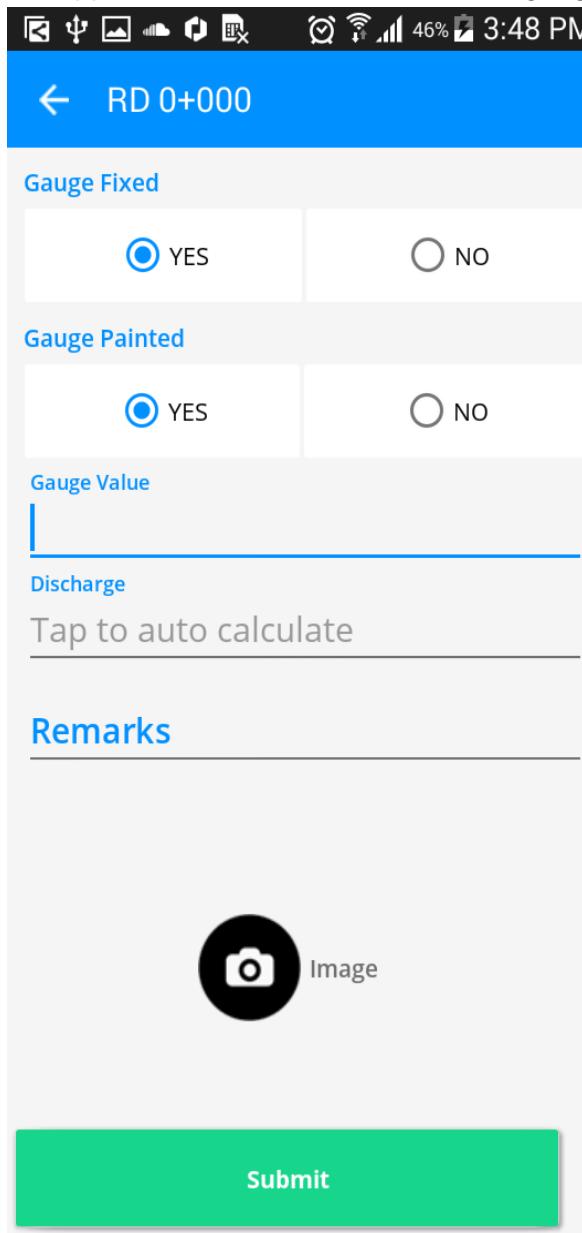
Discharge Table Calculation





Add Gauge Inspection

- Tap on the Add Inspection note icon  from the Gauge inspection
- Application redirects the user to the gauge inspection screen



The screenshot displays the 'Add Gauge Inspection' form. At the top, there's a header bar with icons for signal strength, battery level (46%), and time (3:48 PM). Below the header, the title 'RD 0+000' is shown with a back arrow. The form consists of several sections: 'Gauge Fixed' (radio buttons for YES and NO, YES is selected), 'Gauge Painted' (radio buttons for YES and NO, YES is selected), 'Gauge Value' (an empty input field), 'Discharge' (an input field with placeholder text 'Tap to auto calculate'), 'Remarks' (an empty input field), and a camera icon labeled 'Image'. A large green 'Submit' button is located at the bottom of the form.

- By default Gauge Fixed & Gauge Painted is selected Yes
- User enters the gauge value only if both gauge fixed & gauge painted option is selected yes , if any above option is selected no then user cannot tap the gauge value



Gauge Value

- Enter the gauge value in the “Gauge Value” text field

Gauge Value

- Application does not allow user to enter value in gauge (ft.) if any one of Gauge Painted or Gauge Fixed is selected No
- Application only allows user to enter if both are selected Yes (Gauge Painted and Gauge Fixed)
- Enter gauge value between 0.0 and 30.0, otherwise system displays message “value should be from 0.0 to 30.0”
- Application does not accept negative gauge value

Discharge

- Tap on the discharge , application automatically calculates Discharge value

Discharge

Tap to auto calculate

Remarks

- Enter the remarks in the “Remarks” field

Remarks

- Application does not accept more than 250 characters in remarks field
- Application accepts all numeric, alphabets and special characters in remarks field

Image

- Tap on the image icon to take the image
- Application allows the user to take the multiple photos



Image

Submit

- Tap on the submit button to submit the record into the application

Submit

- Application redirects the user to the Schedule & Inspection calendar screen & display a message “Record Saved Successfully”



16 Add Discharge Table Calculation (Bed Level)

- Tap on the Add inspection note icon  from the Discharge Table Calculation
- Application redirects the user to the Discharge table calculation bed level Inspection note screen

Value of Exponent (n)

Mean Depth (ft)

Observed Discharge (cusec)

Gauge Correction Type

Bed Silted Bed Scoured

Gauge Value Correction

Co-efficient of Discharge (K)
Tap to auto calculate

Remarks

Submit



Value of Exponent (n)

- Enter the value of exponent in the “Value of Exponent(n)” field

Value of Exponent (n)

- Application only accepts value of exponent from 0 to 5

Mean Depth (ft)

- Enter the mean depth in the “Mean Depth(ft)” field

Mean Depth (ft)

- Application only accepts value of mean depth from 0 to 5

Observed Discharge

- Enter the observed discharge in the “Observed Discharge” field

Observed Discharge (cusec)

- Application only accepts 99,999 value in the observed discharge (cusec) field

Gauge Correction Type

- Select any option of Bed Silted and Bed Scoured from Gauge Correction type

Gauge Correction Type

Bed Silted

Bed Scoured

Gauge Value Correction

- Enter the co-efficient of discharge value from the “Co-efficient of Discharge(K)” field

Gauge Value Correction

- Application only accepts the value from 0 to 30

Co-efficient of Discharge (K)

- Tap on co-efficient of discharge

Co-efficient of Discharge (K)

Tap to auto calculate

- Application calculates the co-efficient of discharge & display in read only mode





Remarks

- Enter the remarks in the “Remarks” text field

Remarks

- Application does not accept more than 250 characters in remarks field
- Application accepts all numeric, alphabets and special characters in remarks field

Submit

- Tap on submit button to submit the data

Submit

- Application redirects the user to the Schedule & Inspection calendar screen & display a message “Record Saved Successfully”

17 Discharge Table Calculation (Crest Level)



- Tap on the inspection note icon from the Discharge Table Calculation
- Application redirects the user to the discharge table calculation crest level inspection screen



3:49 PM

← RD 44+134

Breadth of Fall (ft)

Head Above C...

Observed Discharge (cusec)

Co-efficient of Discharge (K)

Tap to auto calculate

Remarks

Submit



Breadth of Fall (ft)

- Enter the breadth of fall value in the “Breadth of Fall” field

Breadth of Fall (ft)

- User only enters the numeric value

Head Above Crest (ft)

- Enter the head above crest value in the “Head Above Crest” field

Head Above C...

- Application only accept 0-30 value in the above field

Observed Discharge (Cusec)

- Enter the observed discharge in the “Observed Discharge” text field

Observed Discharge (cusec)

- Application only accept 99,999 value in the observed discharge (cusec) field

Co-efficient of Discharge (C)

- Tap on the co-efficient of discharge

Co-efficient of Discharge (K)

Tap to auto calculate

- Application calculates the co-efficient of discharge & display in read only mode

Remarks

- Enter the remarks in the “Remarks” field

Remarks

- User can only enter 250 characters in the remarks field
- Application accepts all numeric, alphabets and special characters in remarks field

Submit

- Tap on submit button to submit the data

Submit

- Application redirects the user to the Schedule & Inspection calendar screen & display a message “Record Saved Successfully”



18 Outlet Performance

- Tap on the inspection note icon  from the Outlet Performance
- Application redirects the user to the Outlet Performance inspection screen

← Outlet 102+983/L

Head Above Crest (ft)

Working Head (ft)

Observed Discharge (cusec)

Find Efficiency

Efficiency (Observed Discharge/ Design Discharge X 100)

Height of Outlet/Orifice(Y in ft)

Diameter/Breadth/Width(Dia/B in ft)

Remarks

Submit

Head Above Crest (ft)

- Enter the head above crest in the “Head Above Crest(ft)” field



Head Above Crest (ft)

Working Head (ft)

- Enter the working head in the “Working Head” field

Working Head (ft)

Observed Discharge

- Enter the observed discharge value in the “Observed Discharge (Cusec)” field

Observed Discharge (cusec)

Find Efficiency

- Tap on the find efficiency button under the observed discharge

Find Efficiency

- Application calculates the efficiency with the given formula in the efficiency field & display it in read only mode

Efficiency (Observed Discharge/ Design Discharge X 100)

Height of Outlet/Orifice (Y in ft)

- Enter the height of outlet value in the “Height of Outlet/Orifice (Y in ft)” field

Height of Outlet/Orifice(Y in ft)

Diameter/Breadth/Width (Dia / B in ft)

- Enter the diameter/breadth/width value in the “Diameter/Breadth/Width(Dia/ B in ft)” field

Diameter/Breadth/Width(Dia/B in ft)





Remarks

- Enter the remarks in the “Remarks” field

Remarks

- User can only enter the 250 characters in the remarks field
- Application accepts all numeric, alphabets and special characters in remarks field

Submit

- Tap on submit button to submit the data

Submit

- Application redirects the user to the Schedule & Inspection calendar screen & display a message “Record Saved Successfully”

19 Outlet Alteration



- Tap on the inspection note icon from the outlet alteration
- Application redirects the user to the outlet alteration inspection note screen



← Outlet

11+752/L

Height of Outlet/Orifice(Y in ft)

Head above Crest of Outlet(H in ft)

Working Head(wh in ft)

Diameter/Breadth/Width(Dia/B in ft)

Remarks

Submit





Height of Outlet/Orifice (Y in ft)

- Enter the height of outlet value in the “Height of Outlet/Orifice (Y in ft)” field

Height of Outlet/Orifice(Y in ft)

Head Above Crest of Outlet (H in ft)

- Enter the value in the “Head above Crest of Outlet (H in ft) field

Head above Crest of Outlet(H in...

Working Head (Wh in ft)

- Enter the working head value in the “Working Head(Wh in ft)” field

Working Head(wh in ft)

Diameter/Breadth/Width (Dia / B in ft)

- Enter the diameter/breadth/width value in the “Diameter/Breadth/Width(Dia/ B in ft)” field

Diameter/Breadth/Width(Dia/B i...

Remarks

- Enter the remarks in the “Remarks” field

Remarks

- User can only enter 250 characters in the remarks field
- Application accepts all numeric, alphabets and special characters in remark field

Submit

- Tap on submit button to submit the data

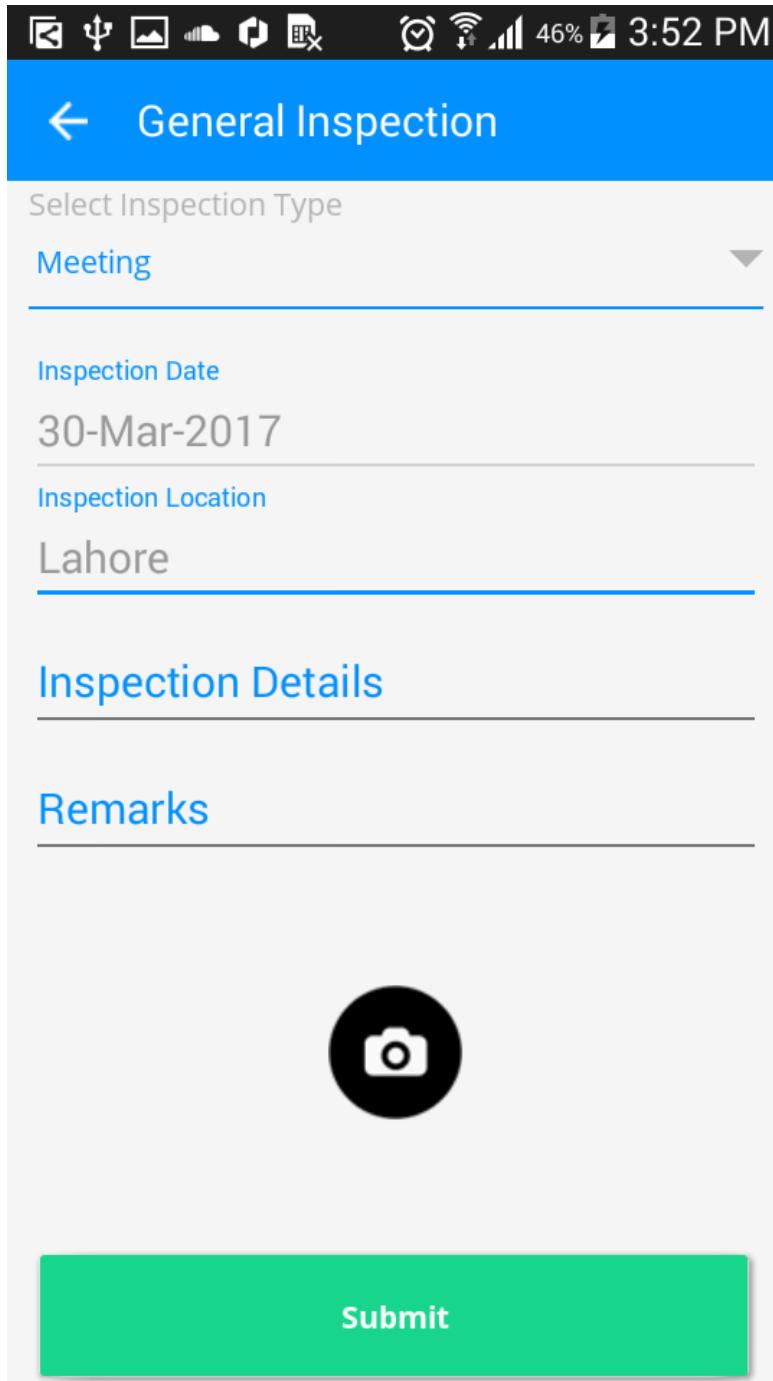
Submit

- Application redirects the user to the Schedule & Inspection calendar screen & display a message “Record Saved Successfully”



20 General Inspection

- Tap on the inspection note icon  from the work inspection
- Application redirects the user to the general inspection note screen



General Inspection

Select Inspection Type

Meeting

Inspection Date

30-Mar-2017

Inspection Location

Lahore

Inspection Details

Remarks

Submit

- Inspection type, inspection date & location are populated from the scheduled inspection & user is unable to change these values



Inspection Detail

- Enter the inspection detail in the “Inspection Detail” field

Inspection Details

- Application accepts only 250 characters in the inspection details field
- Application allows the user to enter the alphanumeric value

Remarks

- Enter the remarks in the “Remarks” field

Remarks

- User can only enter 250 characters in the remarks fields
- Application accepts all numeric, alphabets and special characters in remarks field

Image



Image

- Tap on the image icon to take the image
- Application allows the user to take the multiple photos

Submit

- Tap on the submit button to submit the record into the application

Submit

- Application redirects the user to the Schedule & Inspection calendar screen & display a message “Record Saved Successfully”

21 Work Inspection



- Tap on the inspection note icon from the Work inspection
- Application redirects the user to the closure work or other work inspection notes screen



[Closure Work](#)

Structure Closure Work
Electrical/ Mechanical
Work Progress Updated to 50.0% on 30-Mar-2017

Approximate Progress Percentage

Select Work Status

Actual Start ▾

Remarks

Submit

- Application displays the parent information of the closure work plan or from Work Details
- Application displays the last entered Progress Date and Previous Percentage for the logged-on user
- Application determines the Closure Work Type. If the Closure Work Type is Desilting, then the parameters are different for taking progress
- For Desilting closure work type, application displays two extra fields (Quantity of Silt Removed, Length of Channel)



Approximate Progress Percentage

- Enter the approximate progress percentage in the “Approximate Progress Percentage” field

Approximate Progress Percentage

- Progress Percentage should not be greater than 100%

Select Work Status

- Select the work status from the “Work Status” drop down

Select Work Status

Actual Start

Remarks

- Enter the remarks in the “Remarks” field

Remarks

- User can only enter 250 characters in the remarks text fields
- Application accepts all numeric, alphabets and special characters in remarks field

Image



image

- Tap on the image icon to take the image
- Application allows the user to take the multiple photos

Submit

- Tap on the submit button to submit the record into the application

Submit

- Application redirects the user to the Schedule & Inspection calendar screen & displays a message “Record Saved Successfully”



Tender Inspection Notes

- Tap on the inspection note icon  from the tenders Inspection
- Application redirects the user to the Tenders Management screen
- If XEN is adding inspections then Tenders Management provides the opportunity to add information in Evaluation Committee Attendance, Contractor Attendance and Tender Price.

Saving screenshot...

Tenders Management

Division
Kasur

Tender Notice
Tender Notice 2

Work/Tender
Structure Closure Work

Tenders Opening Process

Evaluation Committee Attendance	Contractor Attendance
Tender Price	



- Division , Tender Notice & Work/Tender are fetched from the scheduled detail & user is unable to change these value

22 Inspection of Committee Attendance

- Tap on the Evaluation Committee Attendance icon from the Tender Opening Process
- Application redirects the user to the Committee Attendance inspection notes screen

The screenshot shows a mobile application interface for committee attendance. At the top, there's a navigation bar with icons for back, home, and search, along with connectivity and battery status. The main title is "Committee Attendance" with a back arrow. Below it, the work/tender details are shown: "Work/Tender" and "Desilting Work 2017". A "Monitored By" section lists "ADM" with a dropdown arrow. The "Name" section lists "ADM ADM" with a dropdown arrow. The "Opened by" section is currently empty. Under "Evaluation Committee Members", there's a list of three members with checkboxes and edit icons: Hamza Malik (ADM), Muhammad Ali (SE), and Umair Malik (XEN). At the bottom, there's a camera icon with the text "Attach Attendance Sheet" and a large green "Submit" button.



Monitored by

- Select the monitored by value from the “Monitored By” drop down

Monitored By

ADM

Name

- Select the Name from the “Name” drop down

Name

ADM ADM

Opened By

- Enter the opened by name in the “Opened By” field

Opened by

Evaluation Committee Members

Evaluation Committee Members

<input type="checkbox"/> Hamza Malik	
ADM	
<input type="checkbox"/> Muhammad Ali	
SE	
<input type="checkbox"/> Umair Malik	
XEN	

- Tap on the radio button to select the evaluation committee members
- Tap on the Alternate icon from the evaluation committee members
- Application enables the two text fields (Alternate Name & Alternate Designation)

Evaluation Committee Members

<input checked="" type="checkbox"/> Hamza Malik	
ADM	
Alternate Name	
Alternate Designation	

- Enter the name in the “Alternate Name” text field
- Enter the designation in the “Alternate Designation” text field



Attach Attendance Sheet

- Tap on the attach attendance sheet to take the image



Attach
Attendance Sheet

- Application allows the user to take the multiple photos

Submit

- Tap on the submit button to submit the record into the application

- Application redirects the user to the Tenders Management screen & displays a message “Record Saved Successfully”

23 Inspection of Contractor Attendance

- Tap on the contractor attendance icon from the tender opening process
- Application redirects the user to the Contractor Attendance screen



3:51 PM

← Contractor Attendance

Work/Tender
Desilting Work 2017

Monitored By
ADM

Name
ADM ADM

Contractor Members

<input type="checkbox"/> Lodhi Corporation	
Haneef Ali Lodhi	
<input type="checkbox"/> Minhaj Trader	
Tariq Ali Khan	
<input type="checkbox"/> Qamar International	
Muhammad Qamar	

Attach Attendance Sheet

Submit

- Application displays the monitored by & name in read only mode & these two values are fetched from the committee attendance screen
- User is unable to change the monitored by & name values



Contractor Members

Contractor Members

<input type="checkbox"/> Lodhi Corporation	
Haneef Ali Lodhi	
<input type="checkbox"/> Minhaj Trader	
Tariq Ali Khan	
<input type="checkbox"/> Qamar International	
Muhammad Qamar	

- Tap on the radio button to select the contractor members
- Tap on the Alternate icon from the contractor members
- Application enables the two text fields (Alternate Name & Alternate Remarks)

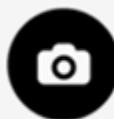
Contractor Members

<input checked="" type="checkbox"/> Lodhi Corporation	
Haneef Ali Lodhi	

Alternate Name

Alternate Remarks

- Enter the name in the “Alternate Name” field
- Enter the remarks in the “Alternate Remarks” field
- Attach Attendance Sheet
- Tap on the attach attendance sheet to take the image



Attach
Attendance Sheet

- Application allows the user to take the multiple photos

Submit

- Tap on the submit button to submit the record into the application

Submit

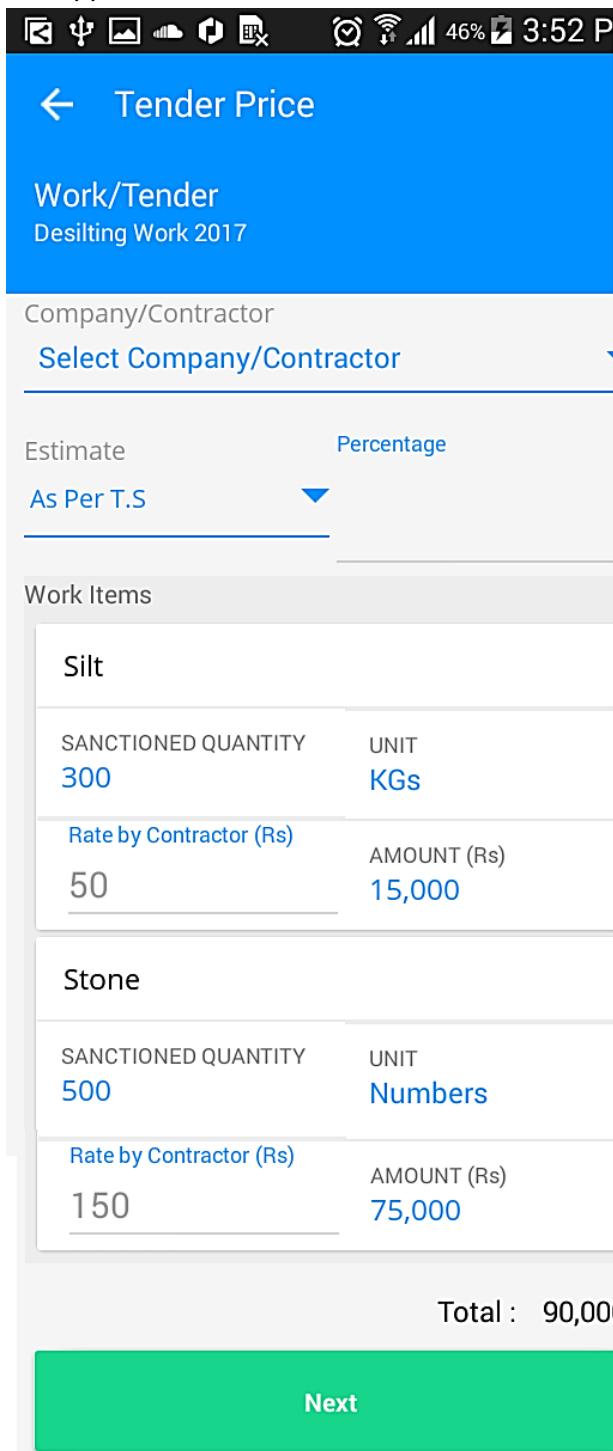
- Application redirects the user to the Tenders Management screen & displays a message “Record Saved Successfully”





24 Inspection of Tender Price

- Tap on the Tender Price icon  from the tender opening process
- Application redirects the user to the Tender Price screen



The screenshot shows the 'Tender Price' screen of the mobile application. At the top, there's a header bar with icons for battery, signal, and time (3:52 PM). Below the header, the title 'Tender Price' is displayed with a back arrow. Underneath, it says 'Work/Tender' followed by 'Desilting Work 2017'. A section labeled 'Company/Contractor' contains a dropdown menu with the placeholder 'Select Company/Contractor'. The main content area is titled 'Work Items' and lists two items: 'Silt' and 'Stone'. For 'Silt', the 'SANCTIONED QUANTITY' is 300 (UNIT: KGs), 'Rate by Contractor (Rs)' is 50, and 'AMOUNT (Rs)' is 15,000. For 'Stone', the 'SANCTIONED QUANTITY' is 500 (UNIT: Numbers), 'Rate by Contractor (Rs)' is 150, and 'AMOUNT (Rs)' is 75,000. A total amount of 90,000 is shown at the bottom. A large green button at the bottom right is labeled 'Next'.



Company/Contractor

- Select the value from the “Company/Contractor” drop down

Company/Contractor

Select Company/Contractor

- Application allows the user to select only one company name from the drop down

Estimate

- Select the value from the “Estimate” drop down

Estimate

As Per T.S

- On the selection of Above T.S Rate/Below T.S Rate , application enables the Percentage text field
- On the selection of Item rate from the estimate , application enables the “Rate by Contractor”

Percentage

- Enter the value in the “Percentage” field

Percentage

- User enters the numeric value in the percentage text field

Rate by Contractor

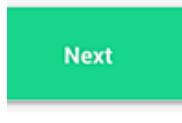
- Enter the value in the “Rate by Contractor” field
- Rate by contractor field is only enabled if user selects the item rate from the estimate

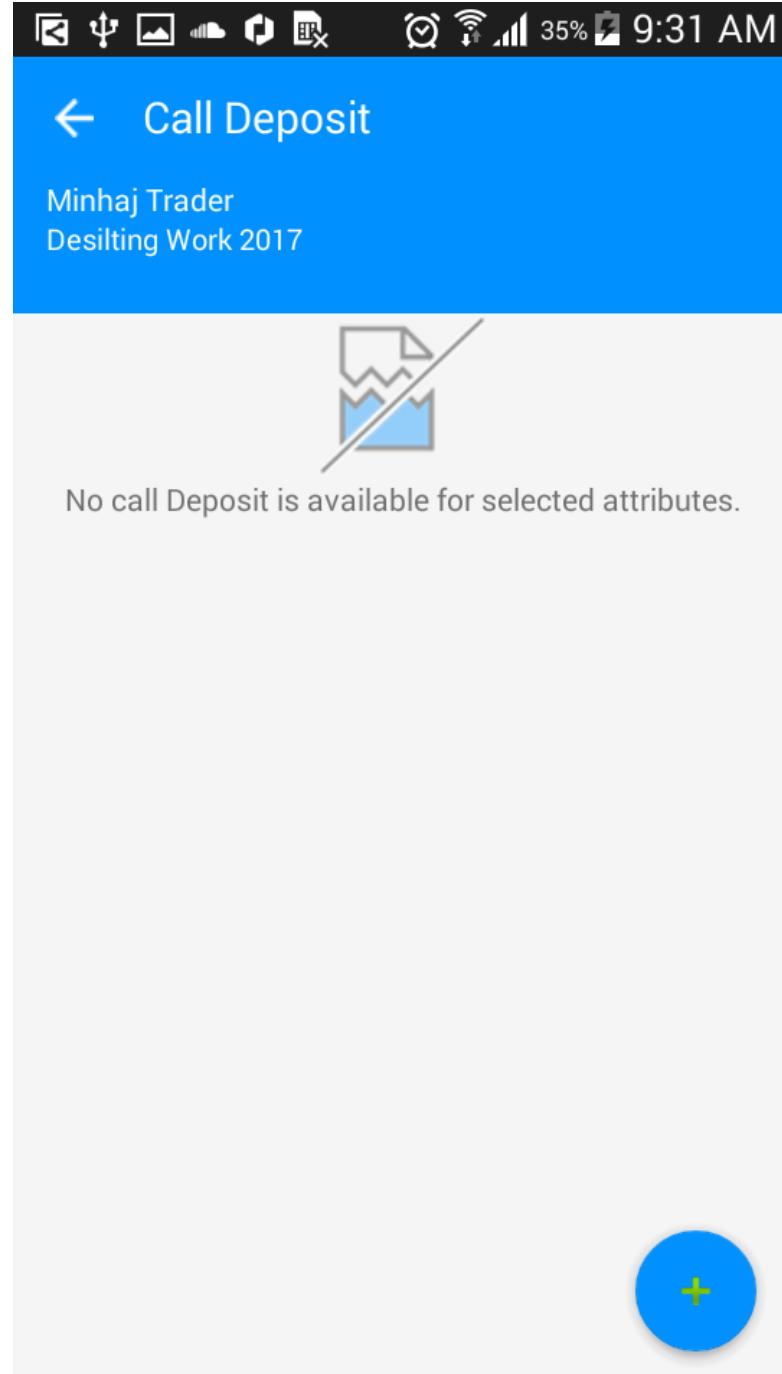
Rate by Contractor (Rs)

50

Next

Next

- Tap on the next button  from the tender price screen
- Application redirects the user to the Call Deposit screen



- Click on the  icon to add the Call Deposit Rupee
- Application redirects the user to the Add Call Deposit screen



9:31 AM

Add Call Deposit

Call Deposit #

Bank Details

Amount



Submit

Call Deposit #

- Enter the call deposit # in the “Call Deposit #” field

Call Deposit #





Bank Detail

- Enter the bank detail in the “Bank Detail” field

Bank Details

Amount

- Enter the amount in the “Amount” field

Amount

Image

- Tap on the image icon to take the image



- Application allows the user to take the image

Submit

- Tap on the submit button to submit the record into the application

Submit

- Application redirects the user to the call deposit screen & displays a message “Record Saved Successfully”

25 Inspection of ADM Reports



- Tap on the inspection note icon from the tenders inspection
- Application redirects the user to the Tender Management screen
- This section is available to ADM only.

Submit

- Application redirects the user to the call deposit screen & displays a message “Record Saved Successfully”



The screenshot shows a mobile application interface for 'Tenders Management'. At the top, there is a navigation bar with icons for back, home, and other functions, along with the time '4:01 PM' and battery level '47%'. Below this is a blue header bar with a back arrow icon and the text 'Tenders Management'. The main content area is divided into several sections:

- Division:** Kasur
- Tender Notice:** Tender Notice for Kasur Division
- Work/Tender:** Desilting Work 2017
- Tenders Opening Process:** ADM Report (with a document icon)

- Division , Tender Notice & Work/Tender are fetched from the scheduled detail & user is unable to change these value
- Tap on the ADM Report icon from the Tender Opening Process
- Application redirects the user to the ADM Reports inspection notes screen



9:50 AM

ADM Report

Work/Tender
Desilting Work 2017

Submission Time

08:35 PM

Opening Time

10:35 PM

Sold Tenders 3 Tenders Submitted 1

Rejected Contractors

<input checked="" type="checkbox"/> Minhaj Trader	
Earnest Money (Rs) 600	Call Deposit Amount (Rs) 500.0
Reason Call Deposit is less than Earnest Money	

- Application displays the current submission time & opening time
- If user wants to change the submission time then click on the button
- Application displays the two fields under the submission time (Actual Submission Time & Reason)



Submission Time



08:35 PM

Actual Submission Time

Reason

- Enter the actual submission time in the “Actual Submission Time” field using the calendar
- Enter the remarks in the “Remarks” field
- If user wants to change the opening time then click on the button
- Application displays the two fields under the opening time (Actual Opening Time & Reason)

Opening Time



10:35 PM

Actual Opening Time

Reason

- Enter the actual opening time in the “Actual Opening Time” field using the calendar
- Enter the reason in the “Reason” text field
- Application fetch the Sold tenders & tenders submitted from the sold tender & tender price screen

Sold Tenders

3

Tenders Submitted

1





- By default rejected contractor selected due to the lowest call deposit money entered from the tender price
- Application displays the reason in the rejected contractors

Rejected Contractors

<input checked="" type="checkbox"/> Minhaj Trader	
Earnest Money (Rs)	Call Deposit Amount (Rs)
600	500.0
Reason	
Call Deposit is less than Earnest Money	

- Tap on the image icon to take the image



- Application allows the user to take the image
- Tap on the cancel icon from cancel tender , application enable the "Cancelling Reason" text field

<input checked="" type="checkbox"/> Cancel Tender
<u>Cancellation Reason</u>

- Enter the cancelling reason in the "Cancellation Reason" text field
- Tap on submit button to submit the record
- Application redirects the user to the Tender Management screen & displays a message "Record Saved Successfully"

Submit



26 Unscheduled Inspection

Through unscheduled inspection, SDO, XEN, MA, ADM user is able to add the unscheduled inspection without scheduling it.

User can access the unscheduled inspection from the left menu under the unscheduled inspection Tab

The screenshot shows a mobile application interface for irrigation management. At the top, there is a black header bar with various icons (Wi-Fi, signal strength, battery level at 39%, time at 10:46 AM). Below the header is a profile section for 'Assistant Director Monitoring WT' (ADM Officer). The main content area has a light gray background and displays a list of inspection types. On the far right, there is a vertical dark blue sidebar with the letter 'S' and several numerical values (5, 12, 19, 26) aligned vertically. The inspection types listed are: Unscheduled Inspections (selected), Outlet Performance, Discharge Table Calculation, Gauge Inspections, Outlet Alteration, and General Inspection. Below this list are three more items: Schedule Calendar, Water Theft, and Closure Operations. At the bottom of the list is Tenders Management. At the very bottom of the screen is a 'Logout' button with a power icon.

- Unscheduled Inspections** ▼
- Outlet Performance
- Discharge Table Calculation
- Gauge Inspections
- Outlet Alteration
- General Inspection

- Schedule Calendar
- Water Theft >
- Closure Operations

- Tenders Management

- Logout



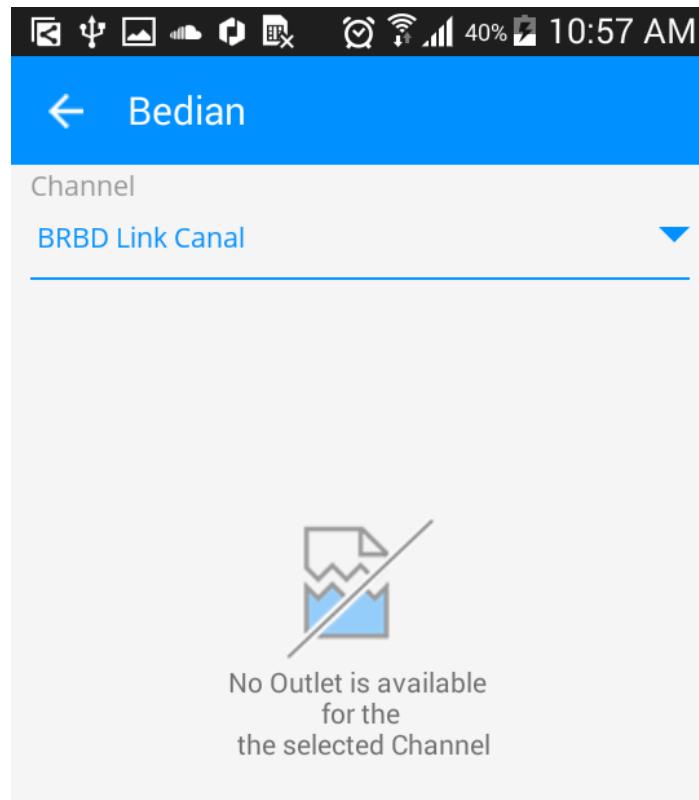
Outlet Performance (Unscheduled)

- Tap on the Outlet Performance under the unscheduled inspections tab from the left menu
- Application redirects the user to the Unscheduled inspections (Outlet Performance)

The screenshot shows the 'Unscheduled Inspections' screen. At the top, there are tabs for 'OUTLET PERFORMANCE' and 'DISCHARGE'. Below the tabs, there are two sets of dropdown filters. The first set includes 'Zone' (set to 'Lahore') and 'Circle' (set to 'DCC'). The second set includes 'Division' (set to 'Kasur') and 'Sub-Division' (set to 'Chunian'). Below these filters is a section titled 'Sections' containing six items: 'Bedian', 'Chorkot', 'Chunian', 'Ganda Singh', 'Gandasingh', and 'Kasur', each with a right-pointing arrow.



- By default Zone, Circle, Division & Sub division selected with the user logged in location
- User is able to change the sub division from the sub division drop down
- On the selection of the sub division relevant section displayed
- Tap on the Section from the Sections , application redirects the user to the relevant screen
- Application displays a message “No Outlet is available for the selected channel” if there is no outlet for the selected channel



- Tap on the other channel from the drop down , application displays the outlets for the selected channel



The screenshot shows a mobile application interface. At the top, there is a blue header bar with icons for signal strength, battery level (40%), and the time (11:00 AM). Below the header, the title "Chorkot" is displayed with a back arrow. Underneath the title, the text "Channel" is followed by "Chorkot Disty". A dropdown arrow icon is located to the right of "Chorkot Disty". The main content area is a list of six items, each representing an outlet with its name and a right-pointing arrow:

Outlet	100+402/R	>
Outlet	102+983/L	>
Outlet	10+473/R	>
Outlet	104+980/L	>
Outlet	105+000/R	>
Outlet	108+000/R	>

- Tap on the outlet , system redirects the user to the outlet performance inspection screen



Saving screenshot...

← Outlet 102+983/L

Head Above Crest (ft)

Working Head (ft)

Observed Discharge (cusec)

Find Efficiency

Efficiency (Observed Discharge/ Design Discharge X 100)

Height of Outlet/Orifice(Y in ft)

Diameter/Breadth/Width(Dia/B in ft)

Remarks

Submit

Head Above Crest (ft)

- Enter the head above crest in the “Head Above Crest(ft)” field

Head Above Crest (ft)





Working Head (ft)

- Enter the working head in the “Working Head” field

Working Head (ft)

Observed Discharge

- Enter the observed discharge value in the “Observed Discharge (Cusec)” field

Observed Discharge (cusec)

Find Efficiency

- Tap on the find efficiency button under the observed discharge

Find Efficiency

- Application calculate the efficiency with the given formula in the efficiency field & display it in read only mode

Efficiency (Observed Discharge/ Design Discharge X 100)

Height of Outlet/Orifice (Y in ft)

- Enter the height of outlet value in the “Height of Outlet/Orifice (Y in ft)” field

Height of Outlet/Orifice(Y in ft)

Diameter/Breadth/Width (Dia / B in ft)

- Enter the diameter/breadth/width value in the “Diameter/Breadth/Width(Dia/ B in ft)” field

Diameter/Breadth/Width(Dia/B in ft)

Remarks

- Enter the remarks in the “Remarks” field

Remarks





- User can only enter 250 characters in the remarks text fields
- Application accepts all numeric, alphabets and special characters in remark field

Submit

- Tap on submit button to submit the data

Submit

- Application redirects the user to the previous outlet screen & display a message "Record Saved Successfully"

27 Discharge Table Calculation (Bed Level)

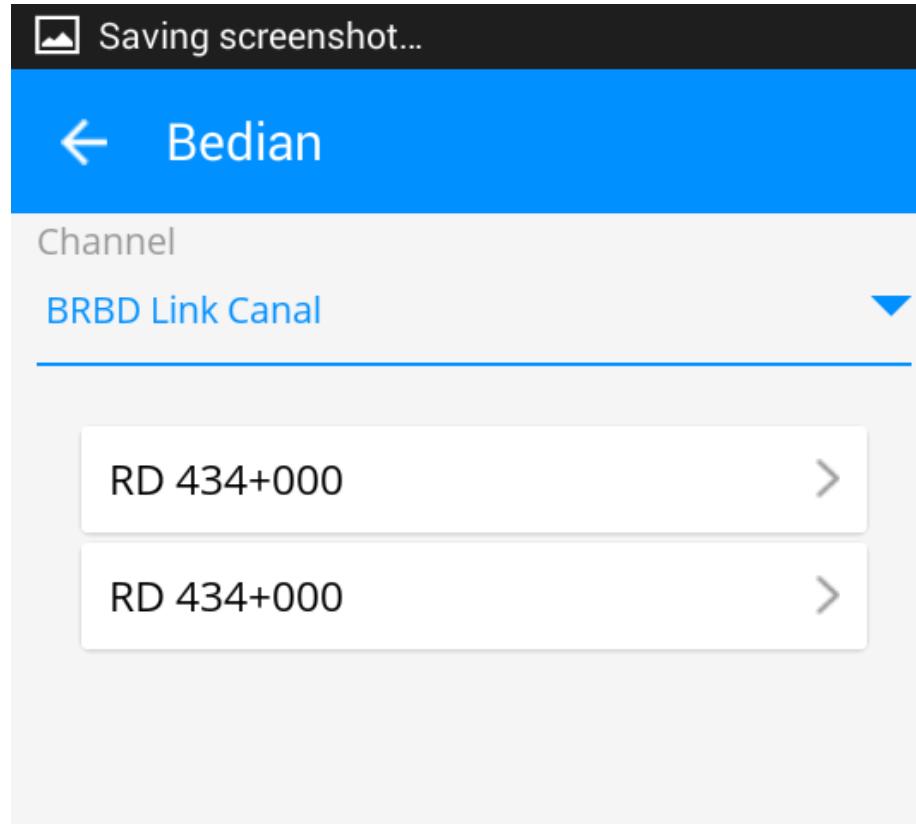
- Tap on the discharge table calculation from the left menu under the unscheduled inspection tab
- Application redirects the user to the discharge table calculation unscheduled inspection screen



The screenshot shows the 'Unscheduled Inspections' section of the WRMIS app. At the top, there are dropdown menus for 'Zone' (set to 'Lahore') and 'Circle' (set to 'DCC'). Below these are dropdown menus for 'Division' (set to 'Kasur') and 'Sub-Division' (set to 'Chunian'). A list of sections follows, each with a right-pointing arrow:

- Bedian
- Chorkot
- Chunian
- Ganda Singh
- Gandasingh
- Kasur

- By default Zone, Circle, Division & Sub division selected with the user logged in location
- User is able to change the sub division from the sub division drop down
- On the selection of the sub division relevant section displayed
- Tap on the Section from the Sections , application redirects the user to the relevant screen
- Application display the gauges for the selected channel



- Tap on the RD 434+000 , application redirects the user to the Discharge Table Calculation bed level



11:12 AM

← RD 434+000

Value of Exponent (n)

Mean Depth (ft)

Observed Discharge (cusec)

Gauge Correction Type

Bed Silted Bed Scoured

Gauge Value Correction

Co-efficient of Discharge (K)

Tap to auto calculate

Remarks

Submit

Value of Exponent (n)

- Enter the value of exponent in the “Value of Exponent(n)” text field

Value of Exponent (n)

- Application only accepts value of exponent from 0 to 5





Mean Depth (ft)

- Enter the mean depth in the “Mean Depth(ft)” text field

Mean Depth (ft)

- Application only accepts value of mean depth from 0 to 5

Observed Discharge

- Enter the observed discharge in the “Observed Discharge” text field

Observed Discharge (cusec)

- Application only accepts 99,999 value in the observed discharge (cusec) text field

Gauge Correction Type

- Select any option of Bed Silted and Bed Scoured from Gauge Correction type

Gauge Correction Type

Bed Silted

Bed Scoured

Gauge Value Correction

- Enter the co-efficient of discharge value from the “Co-efficient of Discharge(K)” text field

Gauge Value Correction

- Application only accepts the value from 0 to 30

Co-efficient of Discharge (K)

- Tap on co-efficient of discharge

Co-efficient of Discharge (K)

Tap to auto calculate

- Application calculates the co-efficient of discharge & display in read only mode

Remarks

- Enter the remarks in the “Remarks” text field

Remarks

- Application does not accept more than 250 characters in remarks field



- Application accepts all numeric, alphabets and special characters in remark field

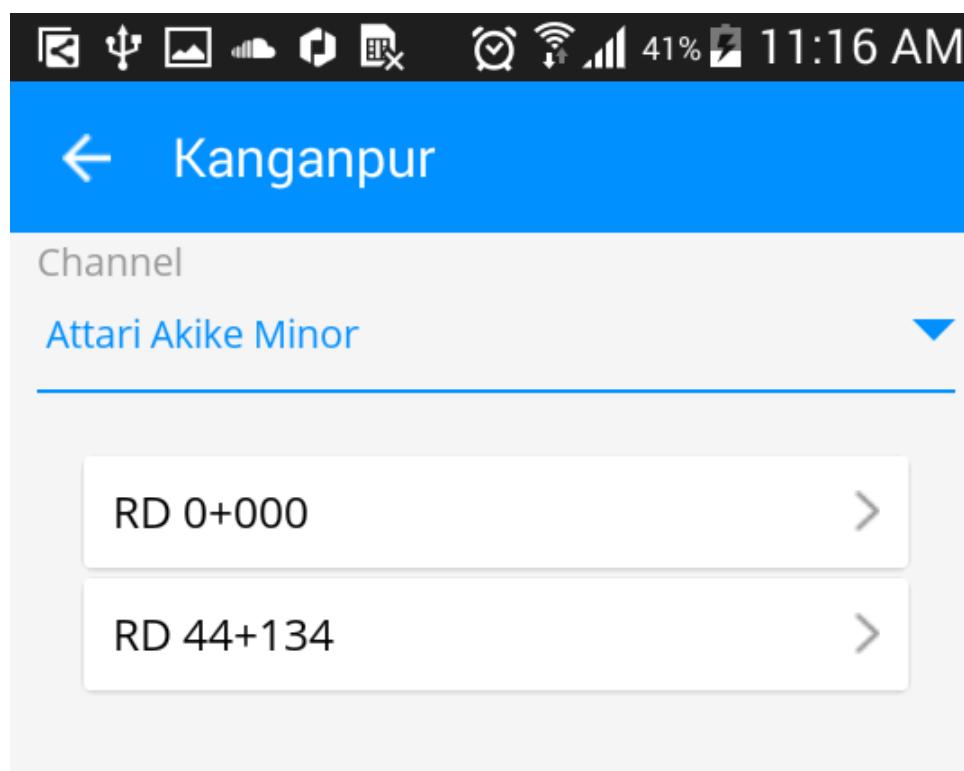
Submit

- Tap on submit button to submit the data

Submit

- Application redirects the user to the previous screen & display a message “Record Saved Successfully”

28 Discharge Table Calculation (Crest Level)



- Tap on the RD 44+134 , application redirects the user to the Discharge table calculation crest level screen



11:21 AM

← RD 44+134

Breadth of Fall (ft)

Head Above C...

Observed Discharge (cusec)

Co-efficient of Discharge (K)

Tap to auto calculate

Remarks

Submit

Breadth of Fall (ft)

- Enter the breadth of fall value in the “Breadth of Fall” text field

Breadth of Fall (ft)

- User only enter the numeric value

Head Above Crest (ft)

- Enter the head above crest value in the “Head Above Crest” text field

Head Above C...

- Application only accepts 0-30 value in the above text field



Observed Discharge (Cusec)

- Enter the observed discharge in the “Observed Discharge” text field

Observed Discharge (cusec)

- Application only accept 99,999 value in the observed discharge (cusec) text field

Co-efficient of Discharge (C)

- Tap on the co-efficient of discharge

Co-efficient of Discharge (K)

Tap to auto calculate

- Application calculates the co-efficient of discharge & display in read only mode

Remarks

- Enter the remarks in the “Remarks” text field

Remarks

- User only enter the 250 characters in the remarks text fields
- Application accepts all numeric, alphabets and special characters in remark field

Submit

- Tap on submit button to submit the data

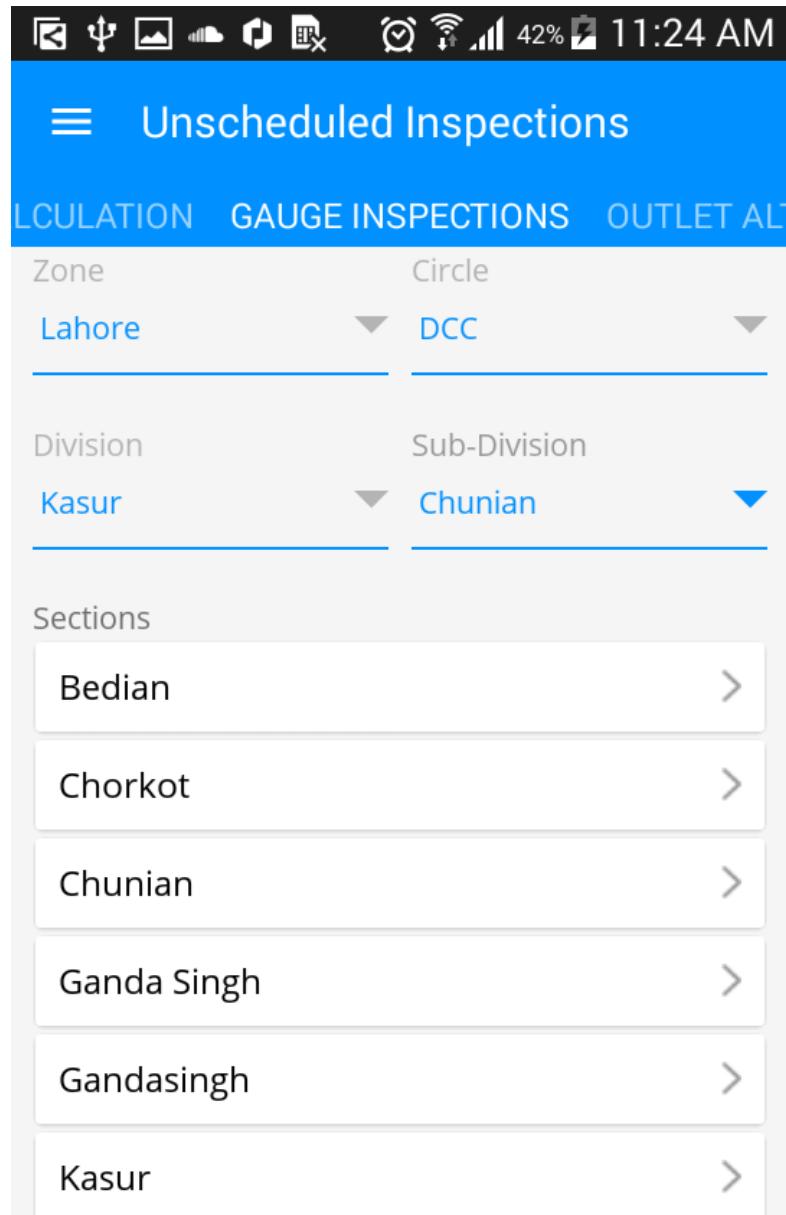
Submit

- Application redirects the user to the previous screen & display a message “Record Saved Successfully”

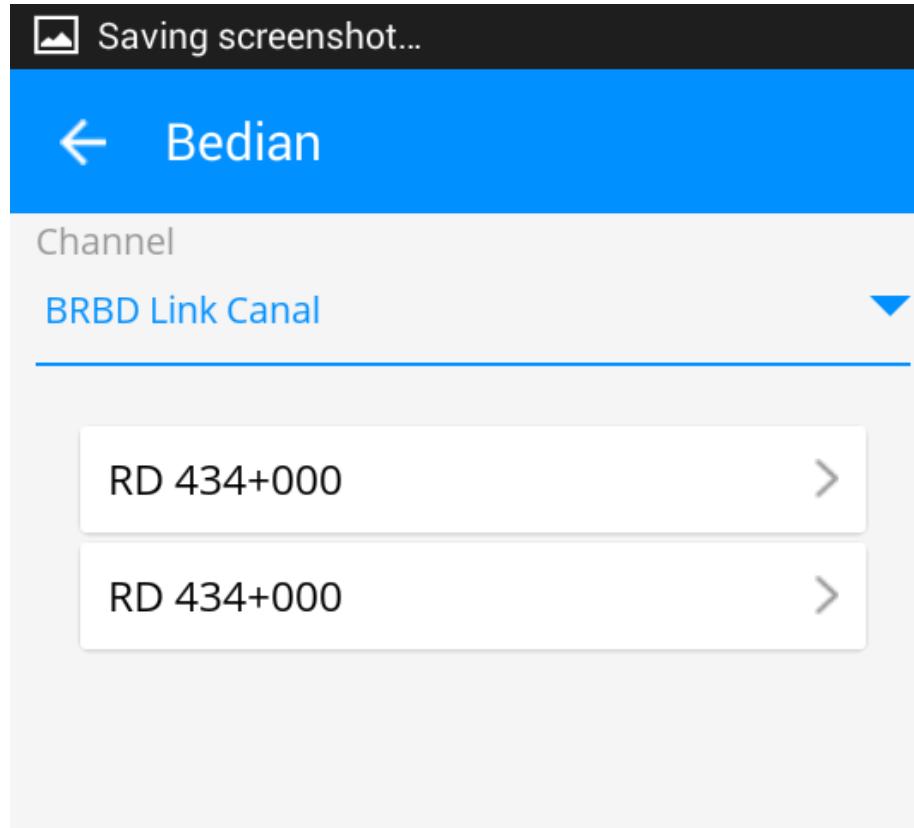


29 Gauge Inspection

- Tap on the Gauge inspection from the left menu under the Unscheduled inspection
- Application redirects the user to the Gauge Inspections screen



- By default Zone, Circle, Division & Sub division selected with the user logged in location
- User is able to change the sub division from the sub division drop down
- On the selection of the sub division relevant section displayed
- Tap on the Section from the Sections , application redirect the user to the relevant screen
- Application display the gauges for the selected channel



- Tap on the RD 434+000 , application redirect the user to Gauge inspection screen



11:29 AM

← RD 434+000

Gauge Fixed

YES NO

Gauge Painted

YES NO

Gauge Value

Discharge

Tap to auto calculate

Remarks

 Image

Submit

- By default Gauge Fixed & Gauge Painted is selected Yes
- User enter the gauge value only if both gauge fixed & gauge painted option is selected yes, if any above option is selected no then user is unable to tap the gauge value



Gauge Value

- Enter the gauge value in the “Gauge Value” text field

Gauge Value

- Application does not allow user to enter value in gauge (ft.) if any one of Gauge Painted or Gauge Fixed is No
- Application only allow user to enter if both are Yes (Gauge Painted and Gauge Fixed)
- Enter gauge value between 0.0 and 30.0 Otherwise system displays message “value should be from 0.0 to 30.0”
- Application does not accept negative gauge value

Discharge

- Tap on the discharge , application automatically calculates Discharge value
- Application should calculate the discharge in cusec

Discharge

Tap to auto calculate

Remarks

- Enter the remarks in the “Remarks” text field

Remarks

- Application does not accept more than 250 characters in remarks field
- Application accepts all numeric, alphabets and special characters in remark field

Image



Image

- Tap on the image icon to take the image
- Application allow the user to take the multiple photos

Submit

- Tap on the submit button to submit the record into the application

Submit

- Application redirects the user to the previous screen & display a message “Record Saved Successfully”



30 Outlet Alteration

- Tap on the outlet Alteration from the left menu under the Unscheduled inspection
- Application redirects the user to the Outlet Alteration screen

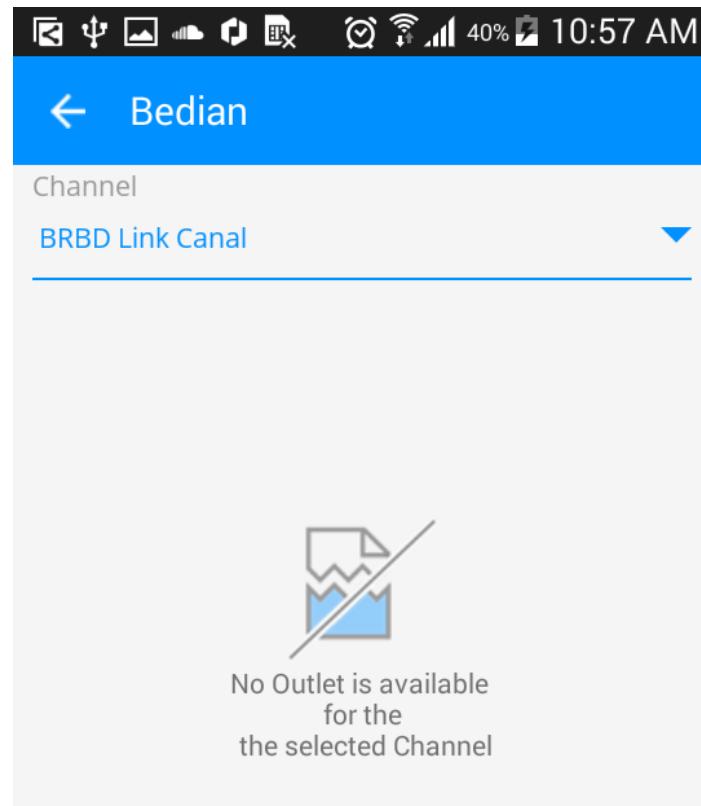
The screenshot shows the 'Unscheduled Inspections' screen of the WRMIS app. At the top, there are several status icons: signal strength, battery level (43%), and time (11:36 AM). Below the header, there are three tabs: 'SPECTIONS' (highlighted in blue), 'OUTLET ALTERATION', and 'GENERAL IN'. The main content area has four sections with dropdown menus:

- Zone:** Lahore (selected)
- Circle:** DCC
- Division:** Kasur (selected)
- Sub-Division:** Chunian (selected)

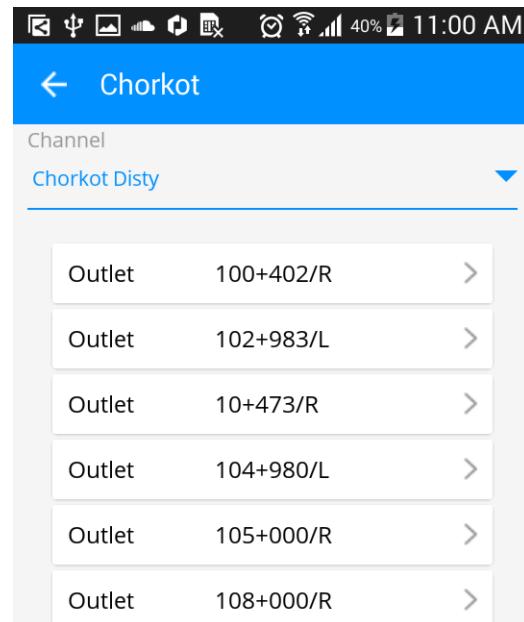
Below these dropdowns is a list of 'Sections' with arrows to their right:

- Bedian
- Chorkot
- Chunian
- Ganda Singh
- Gandasingh
- Kasur

- By default Zone, Circle, Division & Sub division selected with the user logged in location
- User is able to change the sub division from the sub division drop down
- On the selection of the sub division relevant section displayed
- Tap on the Section from the Sections , application redirect the user to the relevant screen
- Application display a message "No Outlet is available for the selected channel" if there is no outlet for the selected channel



- Tap on the other channel from the drop down , application displays the outlets for the selected channel



- Tap on the outlet , application redirects the user to the outlet alteration inspection screen



← Outlet

11+752/L

Height of Outlet/Orifice(Y in ft)

Head above Crest of Outlet(H in...)

Working Head(wh in ft)

Diameter/Breadth/Width(Dia/B i...)

Remarks

Submit

Height of Outlet/Orifice (Y in ft)

- Enter the height of outlet value in the “Height of Outlet/Orifice (Y in ft)” text field

Height of Outlet/Orifice(Y in ft)

Head Above Crest of Outlet (H in ft)

- Enter the value in the “Head above Crest of Outlet (H in ft) text field





Head above Crest of Outlet(H in ft)

Working Head (Wh in ft)

- Enter the working head value in the “Working Head(Wh in ft)” text field

Working Head(wh in ft)

Diameter/Breadth/Width (Dia / B in ft)

- Enter the diameter/breadth/width value in the “Diameter/Breadth/Width(Dia/ B in ft)” text field

Diameter/Breadth/Width(Dia/B i...

Remarks

- Enter the remarks in the “Remarks” text field

Remarks

- User only enter the 250 characters in the remarks text fields
- Application accepts all numeric, alphabets and special characters in remark field

Submit

- Tap on submit button to submit the data

Submit

- Application redirects the user to the outlets screen & display a message “Record Saved Successfully”



31 General Inspection

- Tap on the General Inspection from the left menu under the Unscheduled inspection
- Application redirects the user to the General Inspection screen

The screenshot shows a mobile application interface for a general inspection. At the top, there is a navigation bar with icons for battery, signal, and time (11:43 AM). Below this is a header section with a three-line menu icon and the text "Unscheduled Inspections". A blue banner displays "GENERAL INSPECTION". A dropdown menu labeled "Select Inspection Type" is open. Below the dropdown, the "Inspection Date" field contains the value "31-Mar-2017". The "Inspection Location" field is empty. A large green button at the bottom is labeled "Submit".

- By default inspection date is selected & user is unable to change the inspection date



Select Inspection Type

- Select the inspection type from the “Select Inspection Type” drop down

Select Inspection Type



Inspection Location

- Enter the location in the “Inspection Location” drop down

Inspection Location

Inspection Detail

- Enter the inspection detail in the “Inspection Detail” text field

Inspection Details

- Application accept only 250 characters in the inspection details text field
- Application allow the user to enter the alphanumeric value

Remarks

- Enter the remarks in the “Remarks” text field

Remarks

- User only enter the 250 characters in the remarks text fields
- Application accepts all numeric, alphabets and special characters in remark field

Image



- Tap on the image icon to take the image
- Application allow the user to take the multiple photos

Submit

- Tap on the submit button to submit the record into the application

Submit

- Application display a message “Record Saved Successfully”