



WRMIS User Manual

IRRIGATION FEEDBACK

Development of Water Resources Management Information System (WRMIS) and
Decision Support System (DSS) for Efficient Irrigation Water Management in Punjab

Version 1.0

NESPAK

23-Aug-16





Revision History

Version	Date	By	Summary of Changes
1.0	23-Aug-16	NESPAK	Initial Draft



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Irrigator Feedback

This module provides an interface to add, Irrigator feedback taken by the operator over the telephone. Apart from the feedback the basic data of irrigator will also be added through this module.



1. Irrigator Feedback

This module provides an interface to add Irrigator & irrigator feedback taken by the (PMIU) helpline operator over the telephone. Apart from the feedback the basic data of irrigator will also be added through this module. User can also view Irrigator's feedback at any particular time by selecting dates through Feedback History

Business User: Helpline Operator

Any other user can access "Irrigators Feedback" based on assigned rights from Roles and Rights (User Administration)

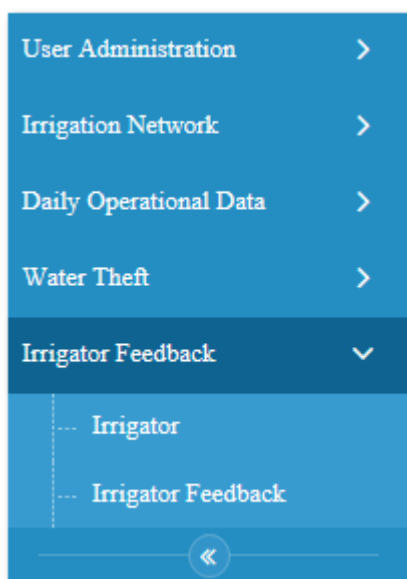
Pre-Requisite: Irrigator Feedback Role and Rights should be assigned to respective user correctly.



2. Search Irrigator

Through “Search Irrigator” screen User can search already saved irrigator. System displays list of irrigators based on selected search parameters. For example, upon selecting Zone and its respective Circle, system will display list of irrigators against selected Zone and Circle. Against each record, “Edit” button is displayed and system will navigate user to edit screen to edit respective irrigator data. User can also add New Irrigator by clicking “Add New Irrigator” button.

How to Access: Main Menu -> Irrigator Feedback - > Irrigator





Zone 1 Zone Select

Circle 2 Circle Select

Division 3 Division Select

Channel Name 4 Channel Name Select

Irrigator Status 5 Irrigator Status Select

Irrigator Mobile No. 6 Irrigator Mobile No. 1000000000

Search 7 Search Add New Irrigator 8

Zone	Circle	Division	Channel Name	Irrigator Name	Irrigator Mobile No.	Irrigator Status	Action
Lahore	DCC	Khanwah	Ali Minor	11111	00300002156	Active	
D G Khan	Muzaffargarh	Kotadu	Lower Kishan Disty	abas Ali Naqvi	03321524562	Inactive	
Lahore	DCC	Khanwah	Gidpur Minor	Abbas Ali Naqvi	03338963258	Inactive	
Faisalabad	LCC East	Khanki	Greater Thal Canal	Abdullah Khan	03002222222	Active	
D G Khan	Derajat	D G Khan	Upper Kala Minor	Ahmad	434564765654	Active	
Bahawalpur	Rahimyar Khan	Khanpur	Rahim Minor	Ahmad	03004555560	Active	
Bahawalpur	Bahawalpur	Mailsi Syphon	Pakpattan Islam Link	Ahmed	03334555561	Inactive	
Lahore	Link Circle	Pasur Link	Dhilm Minor	ahmed	032145745757	Active	
Lahore	Link Circle	B S Link	B.S.Link	Ahsan Ali Khan	03219637415	Active	
Lahore	DCC	Khanwah	Ali Minor	Akbar Ali	03214568875	Active	

1 2 3 4 5 6 7 8 9 10

Search Criteria

1

Zone

Select

- Select zone from the 'Zone' dropdown.
- On selection of zone, system enables Circle dropdown and populates all circles based on selected Zone.

2

Circle

Select

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

3

Division

Select

- Select division from the 'Division' dropdown.
- On selection of division, relevant Channel names are populated in the Channel Name dropdown.

4

Channel Name

- Select Channel Name from the 'Channel Name' dropdown.
- All the channel names pertaining to the zone, circle and division list of channels will be displayed in the dropdown. Only those channels will be displayed which don't have any off take.

5

Irrigator Status

- Select Irrigator Status from the 'Irrigator Status' drop down.

6

Irrigator Mobile No.











- Enter the Irrigator Mobile Number in the 'Irrigator Mobile No' text field.
- In case the search parameter Mobile No is given, the system search all the irrigators carrying any mobile number (either Mobile No 1 or Mobile No 2) given while saving the irrigator.

7

Search

- Click on the <Search> button.
- System displays all the records as per the search criteria given by the user.
- System displays all records if no search criteria is given.
- If there is no record against the entered search criteria, system shows the message '**No record found**'

Search Result

Zone	Circle	Division	Channel Name	Irrigator Name	Irrigator Mobile No.	Irrigator Status	Action
Lahore	DCC	Khanwah	Ali Minor	11111	00300002156	Active	
D G Khan	Muzaffargarh	Kotadu	Lower Kishan Disty	abas Ali Naqvi	03321524562	Inactive	
Lahore	DCC	Khanwah	Gidpur Minor	Abbas Ali Naqvi	03338963258	Inactive	
Faisalabad	LCC East	Khanki	Greater Thal Canal	Abdullah Khan	03002222222	Active	
D G Khan	Derajat	D G Khan	Upper Kala Minor	Ahmad	434564765654	Active	
Bahawalpur	Rahimyar Khan	Khanpur	Rahim Minor	Ahmad	03004555560	Active	
Bahawalpur	Bahawalpur	Mailsi Syphon	Pakpattan Islam Link	Ahmed	03334555561	Inactive	
Lahore	Link Circle	Pasrur Link	Dhilm Minor	ahmed	032145745757	Active	
Lahore	Link Circle	B S Link	B.S.Link	Ahsan Ali Khan	03219637415	Active	
Lahore	DCC	Khanwah	Ali Minor	Akbar Ali	03214568875	Active	

Actions against retrieved data

8

Add New Irrigator

[Add New Irrigator](#)

- Click on the 'Add New Irrigator' button, System moves the user to add new irrigator screen.

9

Edit



- Click on 'Edit' button to edit the existing record.



- System takes the user to edit page with pre-populated record of respective irrigator

10

Page Numbers

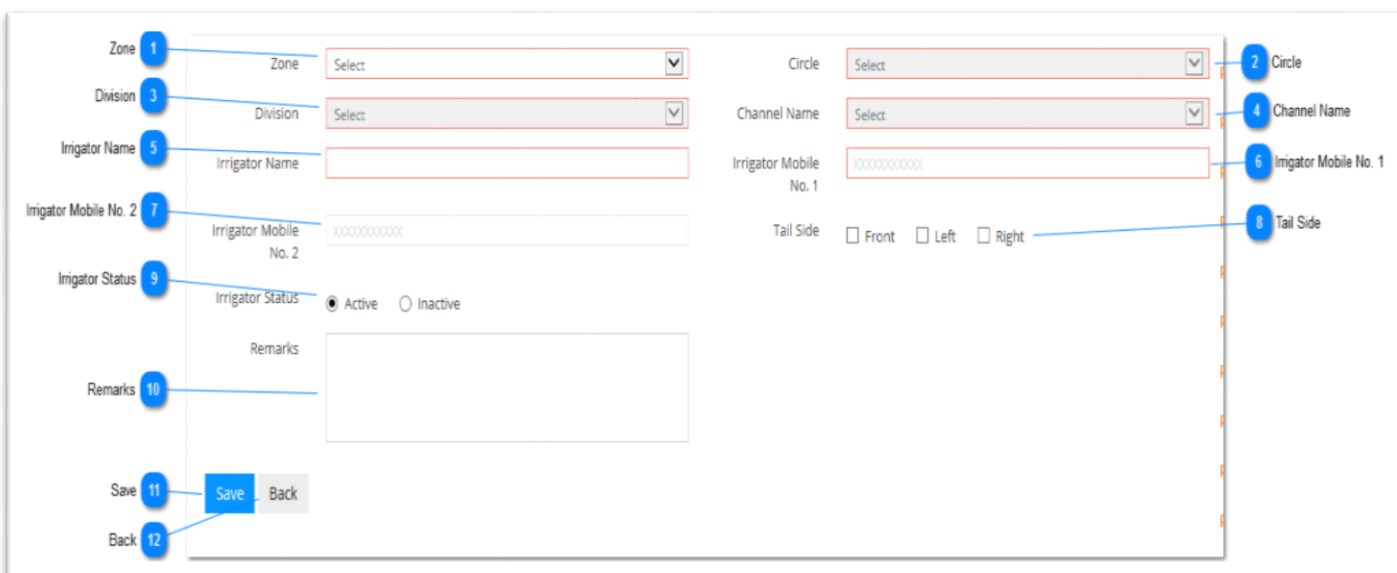
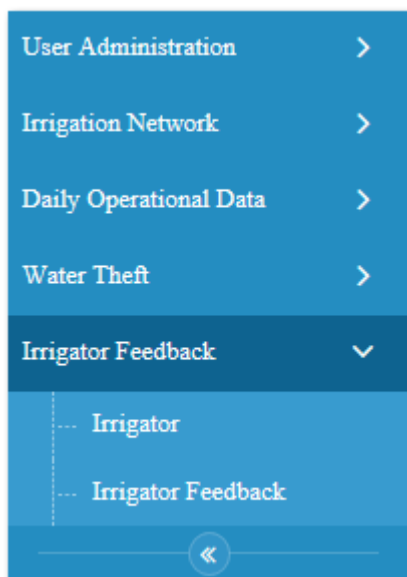
1 2 3 4 5 6 7 8 9 10

- Click on a page number to move to a specific page.

3. Add Irrigator

User adds the Irrigators information into the system from this screen.

How to Access: Left Menu -> Irrigator -> Add Irrigator



Zone **1** Zone

Division **3** Division

Irrigator Name **5** Irrigator Name

Irrigator Mobile No. 2 **7** Irrigator Mobile No. 2

Irrigator Status **9** Irrigator Status ☒ Active ☐ Inactive

Remarks **10** Remarks

Save **11**

Back **12**

Circle **2** Circle

Channel Name **4** Channel Name

Irrigator Mobile No. 1 **6** Irrigator Mobile No. 1

Tail Side **8** Tail Side ☐ Front ☐ Left ☐ Right

1

Zone

- Select zone from the 'Zone' drop down.
- Zone is a required field for saving Irrigator record.
- On selection of zone, relevant circles are populated in the circle dropdown.

2

Circle

- Select circle from the 'Circle' dropdown.
- Circle is a required field for saving Irrigator record.
- On selection of circle, relevant divisions are populated in the division dropdown.

3

Division

- Select division from the 'Division' dropdown.
- Division is a required field for saving Irrigator record.
- On selection of division, relevant Channel name are being populated in the Channel Name dropdown.

4

Channel Name

- Select Channel Name from the 'Channel Name' dropdown.
- Channel Name is a required field for saving Irrigator record.
- Only those channels will be displayed which don't have any off take.

5

Irrigator Name

- Enter the Irrigator Name in the 'Irrigator Name' text field.
- Irrigator Name is a required field for saving Irrigator record.

6

Irrigator Mobile No. 1

XXXXXXXXXX

- Enter the Irrigator Mobile No. 1 in the 'Irrigator Mobile No.1' text field.
- Irrigator Mobile No.1 can't be repeated if it is already entered.
- Irrigator Mobile No.1 is a required field for saving Irrigator record.

7

Irrigator Mobile No. 2

XXXXXXXXXX

- Enter the Irrigator Mobile No. 2 in the 'Irrigator Mobile No.2' text field.
- Irrigator Mobile No.2 is unique.

8

Tail Side

☐ Front ☐ Left ☐ Right

- Select Tail side by clicking relevant checkbox(s)
- Tail Side is a required field for saving Irrigator record.

9

Irrigator Status

☒ Active ☐ Inactive

- Click on Active/Inactive option button to select Irrigator Status.
- By default Irrigator Status is selected as Active.

10

Remarks

- User can enter remarks if required.

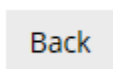
11

Save

Save

- Click on <Save> button, system verify all the required fields.

- System saves the data into the database & displays a message “Records saved successfully”.
- System moves the user to search irrigator screen after saving the record.
- System display error message if any of the required field(s) has not been entered.

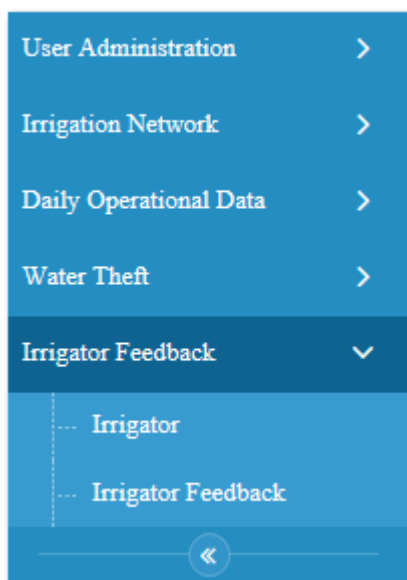


- By clicking on the <Back> button, system moves the user to search irrigator screen without saving the record.

4. Search Irrigator Feedback

To enter feedback, user search the irrigators from this screen as per the given search criteria. User can also search all records without providing any criteria.

How to Access: Left Menu -> Irrigator Feedback



The screenshot shows a web-based form for 'Irrigator Feedback'. It includes several dropdown menus for 'Zone', 'Division', 'Circle', 'Channel Name', 'Tail Status From Daily Data', and 'Irrigator Status'. There are checkboxes for 'Tail Side' (Front, Left, Right) and a text field for 'Irrigator Mobile No.'. A 'Search' button is located below the dropdowns. Below the form is a table with 10 columns: Division, Channel Name, Tail Side Front, Tail Side Left, Tail Side Right, Tail Status From Daily Data, Irrigator Name, Irrigator Mobile No. 1, Irrigator Mobile No. 2, Irrigator Status, and Action. The table contains six rows of data. To the right of the table, there are two buttons: 'Add Feedback' and 'Feedback History'.

Division	Channel Name	Tail Side Front	Tail Side Left	Tail Side Right	Tail Status From Daily Data	Irrigator Name	Irrigator Mobile No. 1	Irrigator Mobile No. 2	Irrigator Status	Action
Burala	Dulchi Disty	✓	-	-	Dry	Haashaam ali asghar khan rajoot	03001245322	-	Active	
Khanki	Greater Thal Canal	✓	-	-		Abdullah Khan	03002222222	062632565436	Active	
Khanki	Greater Thal Canal	✓	✓	-		Hashir Ali	03212587416	-	Active	
Khanki	Greater Thal Canal	✓	-	-		Muhammad Zubair	03229638527	03215426854	Active	
Khanki	Greater Thal Canal	✓	✓	✓		Fahad Mustafa Hassan Rajpoot	03028032275	031230564664	Active	
Khanki	Greater Thal Canal	✓	-	-		Muhammad Ahmed Ali	03339632587	0321312568585	Inactive	

Search Criteria

1

Zone

- Select zone from the 'Zone' dropdown.
- On selection of zone, relevant circles are populated in the circle dropdown.

2

Circle

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

3

Division

Select



- Select division from the 'Division' dropdown.
- On selection of division, relevant Channel name are populated in the Channel Name dropdown.

4

Channel Name

Select



- Select Channel Name from the 'Channel Name' dropdown.

5

Tail Status From Daily Data

Select



- Select Tail Status from 'Tail Status From Daily Data' dropdown.
- If user has specified Tail Status in search criteria, this tail status is retrieved from the database from the last saved daily data information.

6

Tail Side

☐ Front ☐ Left ☐ Right

- Select Tail side by clicking on single or all check boxes.

7

Irrigator Status

Select



- Click on Active/Inactive option button to select Irrigator Status.

8

Irrigator Mobile No.

XXXXXXXXXX

- Enter the Irrigator Mobile Number in the 'Irrigator Mobile No' text field.
- In case the search parameter Mobile No is given, the system search all the irrigators carrying any mobile number (either Mobile No 1 or Mobile No 2) given while saving the irrigator.

9






Search

Search

- Click on <Search> Button.

- System displays the records as per the search criteria given by the user.
- If there is no record against the entered search criteria, system shows the message **'No record found'**
- System displays all records if no search criteria is provided.

Search Result

Division	Channel Name	Tail Side Front	Tail Side Left	Tail Side Right	Tail Status From Daily Data	Irrigator Name	Irrigator Mobile No. 1	Irrigator Mobile No. 2	Irrigator Status	Action
Burala	Dulchi Disty:	✓	-	-	Dry	Haashaam ali asghar khan rajoot	03001245322	-	Active	 
Khanki	Greater Thal Canal	✓	-	-		Abdullah Khan	03002222222	062632565436	Active	 
Khanki	Greater Thal Canal	✓	✓	-		Hashir Ali	03212587416	-	Active	 
Khanki	Greater Thal Canal	✓	-	-		Muhammad Zubair	03229638527	03215426854	Active	 
Khanki	Greater Thal Canal	✓	✓	✓		Fahad Mustafa Hassan Rajpoot	03028032275	031230564664	Active	 
Khanki	Greater Thal Canal	✓	-	-		Muhammad Ahmed	03339632587	0321312568585	Inactive	 

Actions against retrieved data

10

Add Feedback



- Click on Add Feedback button, System moves the user to add irrigator feedback screen against respectively selected irrigator.

11

Feedback History



- Click on Feedback History button, System moves the user to Feedback History screen.

12

Page Numbers

1 2 3 4 5 6 7 8 9 10

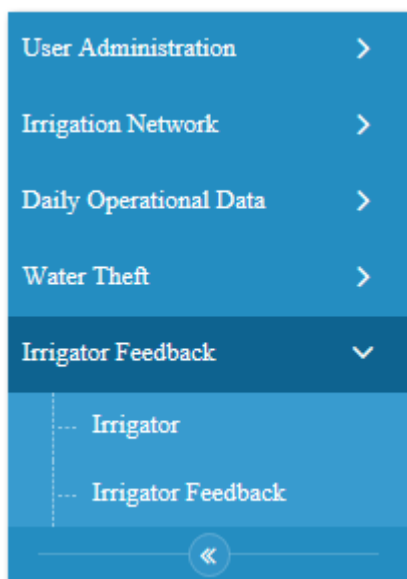
- Click on page numbers to move the user to other pages.



5. Add Irrigator Feedback

User adds the irrigator's feedback into the system from this screen. User clicks the Add Feedback button against respective searched irrigator from search list, system will retrieve the last readings information from Daily Operational Data including (head percent, Tail Status, Tail Status Date, Tail Status Time) along with the other data and will display in read only form on add irrigator feedback web form.

How to Access: Left Menu -> Irrigator Feedback - > Add Feedback



1

Parent Information

- System displays parent information in read only form .
- System retrieves the last readings information from Daily Operational Data including (Head percent, Tail Status, Tail Status Date, Tail Status Time) along with the other data.
- Head Percent is calculated from Daily Operational data:

$$\left[\frac{\text{(head discharge of the selected channel)}}{\text{(designed discharge)}} \right] * 100$$
- Click on View Rotational Program, system determines the current year and season (Kharif/Rabi) and show the rotational program of that particular channel for which operator is entering the feedback (in PDF form).

2

Call Date

17-Aug-2016

- Call date is current date and is auto fetched from database

3

Tail Status By Irrigator

- Select Tail Status from 'Tail Status by Irrigator' dropdown.
- In case user saves the data with tail status dry or short, system generates a notification in complaint module.

4

Rotational Violation

- Select Rotational Violation from 'Rotational Violation' dropdown.
- In case the user saves the data with rotational violation option 'Yes' system will generate an entry in relevant complaint module.

5

Water Theft

- Select the Water Theft option from the 'Water Theft' dropdown.
- In case the user selects the water theft option as 'Yes' RD, Village and Local Name fields are enabled and user fills the data as per the information that can be informed by the irrigator.
- In case the user saves the data with water theft option 'Yes' system generates an entry in relevant complaint module.

6

RD

 +

- By default it is disabled.
- RD text box enables only in case the user selects the water theft value 'Yes' from water theft dropdown.
- Enter the RD value where water theft incident is occurred.

7

Local Name

- By default it is disabled.
- Local name text field enables only in case the user selects the water theft value yes from water theft dropdown.
- Enter the local name.

8

Village Name

- By default it is disabled.
- Village Name enables only in case the user selects the water theft value 'Yes' from the 'Water Theft' dropdown.
- Villages of the selected division are shown.
- Select village form 'Village Name' dropdown.

9

Remarks

- Enter the remarks if required

10

Save

- Click on <Save> button, system verifies all the mandatory fields.
- System displays an error message if any of the required mandatory fields has not been filled.
- System saves the information into the database and the success message is displayed.
- Before saving the data the system shows the warning message to the user "Once saved, you cannot edit this record. Are you sure you want to save this record?"
- Click on 'Yes' button, system hides the message & saves the record into the database.
- Click on 'No' button, system hides the message and does not save the record.

11

Back

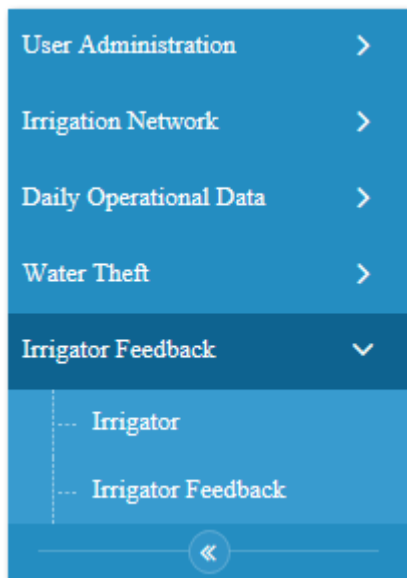
Back

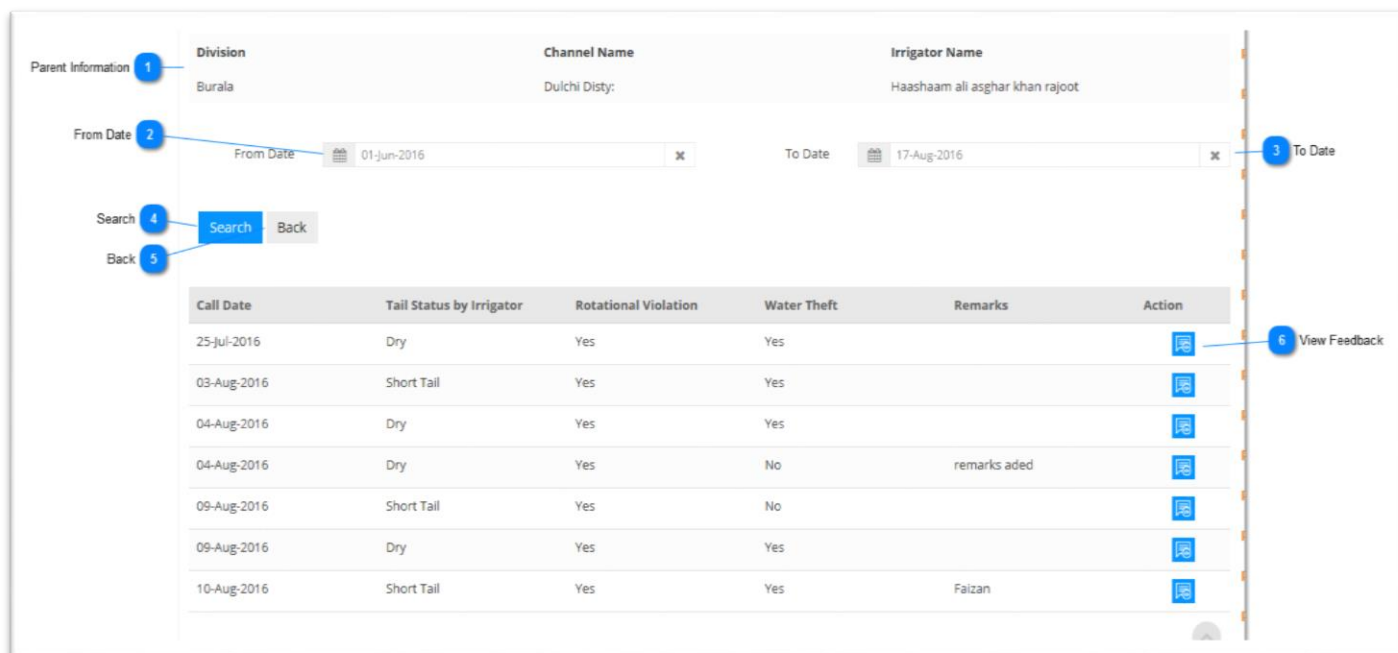
- Click on the <Back> button, System moves the user back to search Irrigator feedback screen.

6. Feedback History

User views the feedback history by searching the feedbacks on providing search criteria at this screen.

How to Access: Left Menu -> Irrigator Feedback - > Feedback History



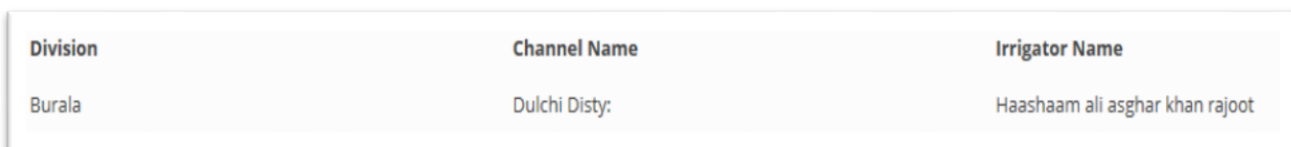


The screenshot shows a web form for 'Irrigator Feedback'. It includes fields for 'Division' (Burala), 'Channel Name' (Dulchi Disty), and 'Irrigator Name' (Haashaam ali asghar khan rajoot). There are date pickers for 'From Date' (01-Jun-2016) and 'To Date' (17-Aug-2016). A 'Search' button is present. Below these is a table with columns: 'Call Date', 'Tail Status by Irrigator', 'Rotational Violation', 'Water Theft', 'Remarks', and 'Action'. The table contains 7 rows of data. A 'View Feedback' button is located at the bottom right of the table.

Call Date	Tail Status by Irrigator	Rotational Violation	Water Theft	Remarks	Action
25-Jul-2016	Dry	Yes	Yes		
03-Aug-2016	Short Tail	Yes	Yes		
04-Aug-2016	Dry	Yes	Yes		
04-Aug-2016	Dry	Yes	No	remarks aded	
09-Aug-2016	Short Tail	Yes	No		
09-Aug-2016	Dry	Yes	Yes		
10-Aug-2016	Short Tail	Yes	Yes	Faizan	

1

Parent Information



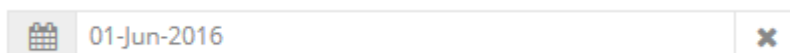
This section displays the parent information in a read-only form. It includes fields for 'Division' (Burala), 'Channel Name' (Dulchi Disty), and 'Irrigator Name' (Haashaam ali asghar khan rajoot).

- Parent information is auto populated from database
- System displays parent information in read only form.

Search Criteria

2

From Date



The screenshot shows a date picker for 'From Date' with the selected date '01-Jun-2016' and a close button (X).

- Click on 'From Date' dropdown.
- Select a date from appeared calendar
- From date should be less than or equal to 'To Date'.

3

To Date

- Click on 'To Date' dropdown.
- Select a date from appeared calendar.
- To date should be greater to 'From Date'.

4

Search**Search**

- Click on <Search> button.
- System fetches the record as per the dates criteria
- If From Date is greater than 'To Date' then system display the message "From date cannot be greater than To Date".
- If 'From Date' or 'To Date' is greater than current date, system display the message "From and To Date cannot be greater than current date.

Search Result

Call Date	Tail Status by Irrigator	Rotational Violation	Water Theft	Remarks	Action
25-Jul-2016	Dry	Yes	Yes		
03-Aug-2016	Short Tail	Yes	Yes		
04-Aug-2016	Dry	Yes	Yes		
04-Aug-2016	Dry	Yes	No	remarks aded	
09-Aug-2016	Short Tail	Yes	No		
09-Aug-2016	Dry	Yes	Yes		
10-Aug-2016	Short Tail	Yes	Yes	Faizan	

Actions against retrieved data

5

Back

Back

- Click on the <Back> button, System moves the user back to search Irrigator feedback screen.

6

View Feedback

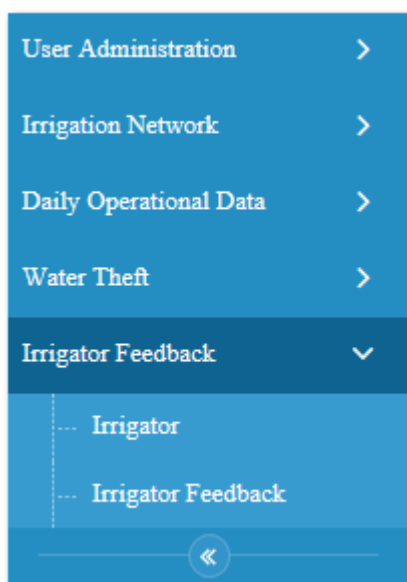


- Click on View Feedback button
- System moves the user to view respective Irrigator's Feedback complete detail.

7. View Feedback

User views the irrigator's feedback detail in read only form. Tail Status will be retrieved from the daily data.

How to Access: Left Menu -> Irrigator Feedback - > Feedback History -> View Feedback





Parent Information

Division	Channel Name	Irrigator Name
Burala	Dulchi Disty:	Haashaam ali asghar khan rajoot
Irrigator Mobile No. 1	Irrigator Mobile No. 2	Irrigator Status
03001245322		Active
Information From Daily Data		View Rotational Program
Tail Status	Head Percent	Tail Status Date & Time
Dry	0	19-Feb-2016 12:00 AM

Call Date 17-Aug-2016

Tail Status By Irrigator Short Tail

Water Theft Yes

Local Name

Remarks

Back

Rotational Violation Yes

RD 0 + 0

Village Name Select

Rotational Violation

RD

Village Name

1

Parent Information

Division	Channel Name	Irrigator Name
Burala	Dulchi Disty:	Haashaam ali asghar khan rajoot
Irrigator Mobile No. 1	Irrigator Mobile No. 2	Irrigator Status
03001245322		Active
Information From Daily Data		View Rotational Program
Tail Status	Head Percent	Tail Status Date & Time
Dry	0	19-Feb-2016 12:00 AM

- System displays parent information in read only form populated from database.
- System retrieves the last readings information from Daily Operational Data including (Head percent, Tail Status, Tail Status Date, Tail Status Time) along with

the other data.

- Head Percent is calculated from Daily Operational data:
[{(head discharge of the selected channel) / (designed discharge)} * 100]

2

Call Date

17-Aug-2016

- Auto fetched from database

3

Tail Status By Irrigator

Short Tail

- Auto fetched from database.

4

Rotational Violation

Yes

- Auto fetched from database.

5

Water Theft

Yes

- Auto fetched from database.

6

RD

+

- Auto fetched from database.
- The value shown only in case the Water theft is yes.


7

Local Name

- Auto fetched from database.
- The value shown only in case the Water theft is yes.

8

Village Name

- Auto fetched from database.
- The value shown only in case the Water theft is yes.

9

Remarks

- Auto fetched from database.

10

Back

- Click on <Back> button.
- System moves the user to Irrigator Feedback History Screen.