



# WRMIS User Manual

## Effluent and Water Charges

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

**Version 1.0**

**NESPAK**

6-Jun-17





## Revision History

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Version	Date	By	Summary of Changes
1.0	06-Jun-17	NESPAK	Complete



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## 1. Effluent and Water Charges

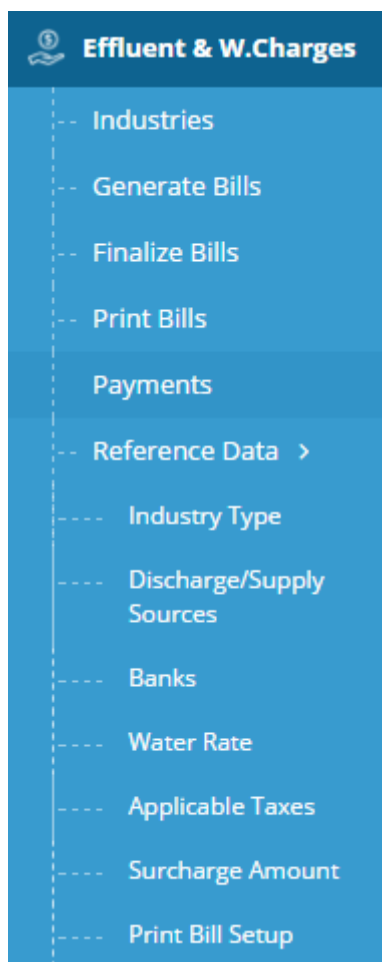
This module provides an interface to add, edit, maintain and delete the complete Effluent and Water Charges.

**Business User:** Administrator, Xen

Any other user can access “Effluent and Water Charges” based on assigned rights from Roles and Rights (User Administration)

**Pre-Requisite:**

Irrigation Network Role and Rights should be assigned to respective user correctly.



### 1.1 Reference Data: Industry Type

Already created Industry Types are listed down in a tabular form and user can add, edit, view and delete already created Industry Types.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Industry Type

Industry Type	Description	Active	
Paper Industry	Paper Industry	True	1
Cotton Mill	Cotton Mill	True	7
Fort	Fort	True	8
Textile		True	6
Faizan	Faizan is Testing	<input checked="" type="checkbox"/>	5

#### Industry Type

1

Add



- Click on <Add> button adds a new row into the table for adding a new record.

2

Industry Type

- User enter Industry Type into 'Industry Type' test field.
- It is mandatory field for adding a new record.

3

Description

- Enter Description for Industry Type.

4

Save



- Click on 'Save' image, system verify all the required fields.
- System saves the data into the database & displays a message "Records saved successfully".
- System display error message if any of the required field(s) has not been entered.
- System displays newly added zone into the Table

5

#### Cancel



- By clicking on the Cancel image, system moves the user to previous page without saving the record.

6

#### Edit



- Click on 'Edit' image to edit the existing record.
- System opens the record into editable form.

7

#### Delete



- Click on 'Delete' image to delete the existing record.
- System display error message if any of the child entry has been entered for this specific record.
- System deletes the newly added record from the table

8

#### Active



- User selects Active status from 'Active' check button.

## 1.2 Discharge/Supply Sources

Already created Discharge/Supply Sources are listed down in a tabular form and user can add, edit, view and delete already created Discharge/Supply Sources.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Discharge/Supply Sources

Industry Type	Description	Active	
Paper Industry	Paper Industry	True	1
Cotton Mill	Cotton Mill	True	7
Fort	Fort	True	8
Textile		True	6
Faizan	Faizan is Testing	<input checked="" type="checkbox"/>	4

### Discharge/Supply Sources

1

Add



- Click on <Add> button adds a new row into the table for adding a new record.

2

Discharge/Supply Sources

- User enter Discharge/Supply Sources into 'Discharge/Supply Sources' test field.
- It is mandatory field for adding a new record.

3

Description

- Enter Description for Discharge/Supply Sources.

4

Save



- Click on 'Save' image, system verify all the required fields.
- System saves the data into the database & displays a message "Records saved successfully".
- System display error message if any of the required field(s) has not been entered.



- System displays newly added zone into the Table

5

Cancel



- By clicking on the Cancel image, system moves the user to previous page without saving the record.

6

Edit



- Click on 'Edit' image to edit the existing record.
- System opens the record into editable form.

7

Delete



- Click on 'Delete' image to delete the existing record.
- System display error message if any of the child entry has been entered for this specific record.
- System deletes the newly added record from the table

8

Active










- User selects Active status from 'Active' check button.

### 1.3 Bank

Already created Banks are listed down in a tabular form and user can add, edit, view and delete already created Banks.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Bank

Bank Name	Description	Active	
NBP	National Bank of Pakistan	True	
HBL	Habib Bank Limited	True	 
UBL	UBL	False	 
ABL	Allied Bank Limited	<input checked="" type="checkbox"/>	 

#### Bank

1

Add



- Click on <Add> button adds a new row into the table for adding a new record.

2

Bank

- User enter Bank into 'Bank' test field.
- It is mandatory field for adding a new record.

3

Description

- Enter Description for Bank.

4

Save



- Click on 'Save' image, system verify all the required fields.
- System saves the data into the database & displays a message "Records saved successfully".
- System display error message if any of the required field(s) has not been entered.
- System displays newly added zone into the Table

5

#### Cancel



- By clicking on the Cancel image, system moves the user to previous page without saving the record.

6

#### Edit



- Click on 'Edit' image to edit the existing record.
- System opens the record into editable form.

7

#### Delete



- Click on 'Delete' image to delete the existing record.
- System display error message if any of the child entry has been entered for this specific record.
- System deletes the newly added record from the table

8

#### Active



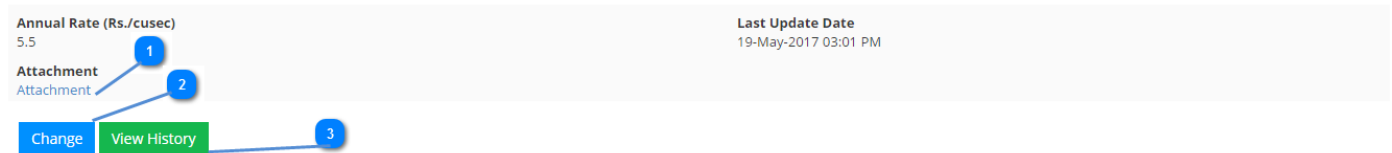
- User selects Active status from 'Active' check button.

## 1.4 Water Rate

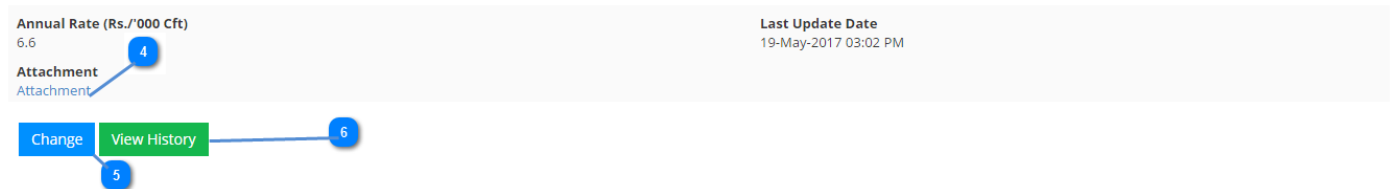
User can change and view water rate.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Water Rate

### Effluent



### Canal Special Water



### Water Rate

1  
**Attachment**  
Attachment

- Click on 'Attachment' link to download attached image file.

2  
**Change**  
Change

- Click on <Change> button to change the effluent rate.
- System populates a new window for entering new values.

3  
**View history**  
View History

- Click on <View History> button navigates the user to History page of effluent rate.

4  
**Attachment**  
Attachment

- Click on 'Attachment' link to download attached image file.



5

#### Change

Change

- Click on <Change> button to change the Canal Special Water values.
- System populates a new window for entering new values.

6

#### View history

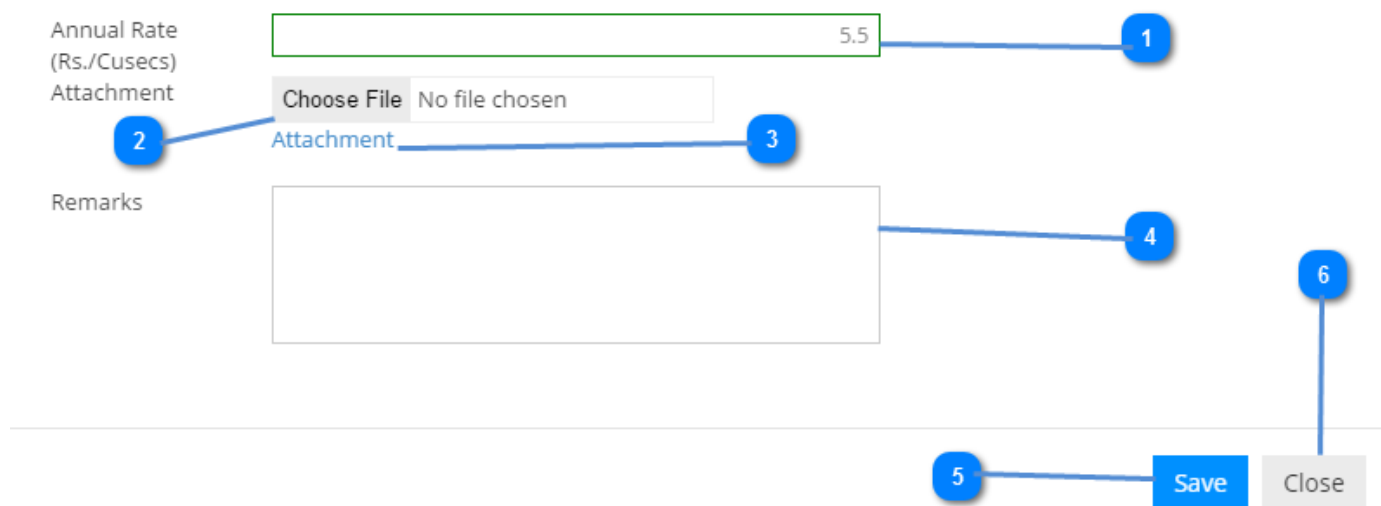
View History

- Click on <View History> button navigates the user to History page of Canal Special Water rate.

## 1.5 Effluent Water

User can update and view already entered effluent water.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Water Rate

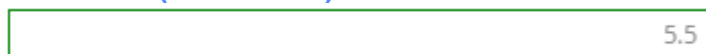


The screenshot shows a web form for entering effluent water data. It includes fields for 'Annual Rate (Rs./Cusecs)' with a value of 5.5, an 'Attachment' section with a 'Choose File' button and 'No file chosen' text, and a 'Remarks' text area. At the bottom are 'Save' and 'Close' buttons. Numbered callouts indicate: 1. Annual Rate input field, 2. Attachment section, 3. Attachment link, 4. Remarks text area, 5. Save button, and 6. Close button.

### Effluent Water

1

#### Annual Rate (Rs./Cusecs)



- User enters annual rate in 'Annual Rate (Rs./Cusecs)' text Field.

2

#### Attachment



- Click on <Choose File> button pops up a window to insert attachment.

3

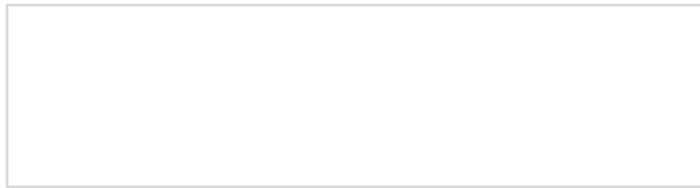
#### Attachment

Attachment

- Click on 'Attachment' link to download attached image file.

4

#### Remarks



- User enters remarks into 'Remarks' text field.

5

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 display error message if any of the required fields has not been entered.
- System displays newly added record.

6

Close

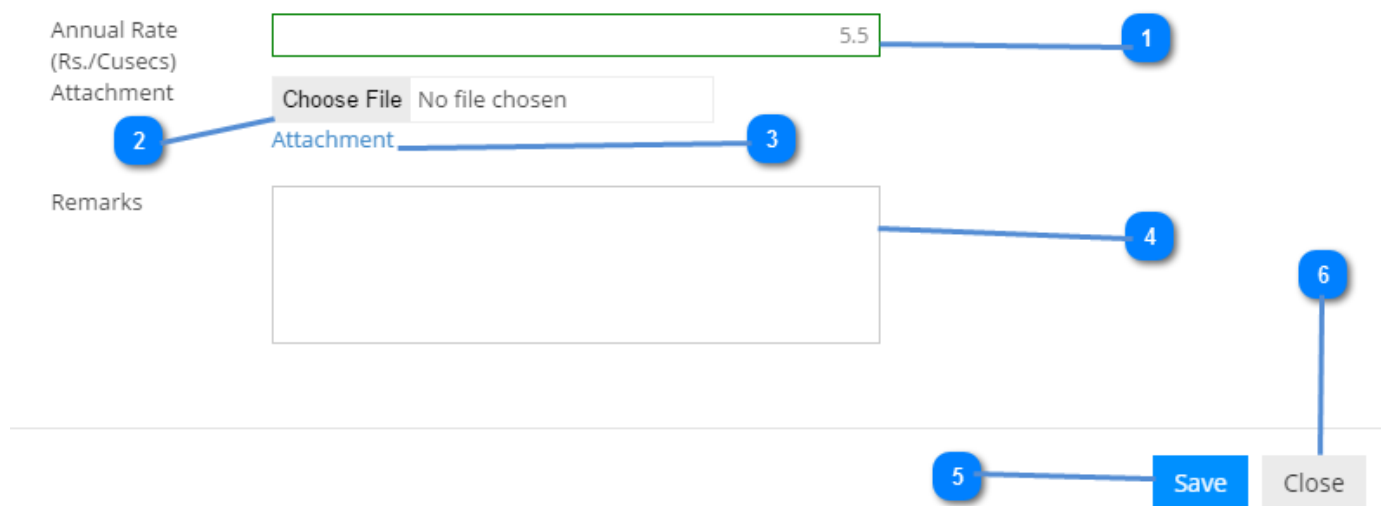
Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

## 1.6 Canal Special Water

User can update and view already entered Canal Special water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate



The screenshot shows a web form for 'Canal Special Water'. It includes a text field for 'Annual Rate (Rs./Cusecs)' with the value '5.5' (callout 1), a file upload section with a 'Choose File' button and 'No file chosen' text (callout 2), and a text area for 'Remarks' (callout 4). Below the form are 'Save' and 'Close' buttons (callout 5). A callout 3 points to the 'Attachment' link below the file upload section, and callout 6 points to the 'Close' button.

### Canal Special Water

1

#### Annual Rate (Rs./Cusecs)

- User enters annual rate in 'Annual Rate (Rs./Cusecs) text Field.

2

#### Attachment

 No file chosen

- Click on <Choose File> button pops up a window to insert attachment.

3

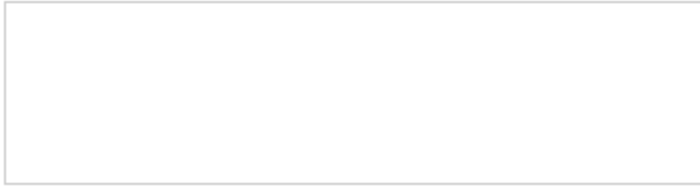
#### Attachment

- Click on 'Attachment' link to download attached image file.

4

#### Remarks





- User enters remarks into 'Remarks' text field.

5

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 display error message if any of the required fields has not been entered.
- System displays newly added record.

6

Close

Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

### 1.7 View History of Effluent Water

User can view history of Effluent Water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate

Date	Annual Rate	Remarks	Attachment
19-May-2017 03:01 PM	5.5	Faizan is testing	<a href="#">View Attachment</a>
03-May-2017 04:50 PM	5.5	333	

1

2

Close

History view

1

[Attachment](#)  
Attachment

- Click on 'Attachment' link to download attached image file.

2

[Close](#)

Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.



## 1.8 View History of Canal Special Water

User can view history of Canal Special Water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate

Date	Annual Rate	Remarks	Attachment
19-May-2017 03:01 PM	5.5	Faizan is testing	<a href="#">View Attachment</a>
03-May-2017 04:50 PM	5.5	333	

1

2 Close

History view

1

[Attachment](#)  
Attachment

- Click on 'Attachment' link to download attached image file.

2

[Close](#)

Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

## 1.9 Applicable Taxes

User can add, edit, view and delete already created Applicable taxes.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate

☒ Effluent Water
 ☐ Canal Special Water

Applicable Tax	Type	Amount	Description	Active	
Withholding Tax	Fix (Rs)	2,500.5	Withholding Tax	True	10
Special Tax	%age of Bill Amount	2.5	Special Tax Special Tax Special Tax Special Tax Sp	True	11
Small Tax	Fix (Rs)	350	Small Tax	False	8
Tax	Fix (Rs)	50	Testing	<input checked="" type="checkbox"/>	9

### Applicable Taxes

1

#### Water Type

☒ Effluent Water

☐ Canal Special Water

- User selects water type from 'Effluent Water, Canal Special Water' Radio button options.

2

#### Add



- Click on <Add> button adds a new row into the table for adding a new record.

3

#### Applicable tax

Small Tax

- User enters the applicable tax into 'applicable Tax' text field.
- It is mandatory field for adding a new record.

4

#### Type

Fix (Rs)

- User selects the type into 'type' dropdown.
- It is mandatory field for adding a new record.

5

#### Amount

Enter Police Station Description

- User enters the amount for new applicable Tax into 'Amount' text field.

6

#### Description

Enter Police Station Description

- User enters the description into 'Description' text field.

7

#### Active



- User selects Active status from 'Active' check button.

8

#### Save



- Click on 'Save' image, system verify all the required fields.
- System saves the data into the database & displays a message "Records saved successfully".
- System display error message if any of the required fields has not been entered.
- System displays newly added record into the Table.

9

#### Cancel



- By clicking on the Cancel image, system moves the user to Zone page without saving the record.

10

#### Edit



- Click on 'Edit' image to edit the existing record.
- System opens the record into editable form.

11

#### Delete



- Click on 'Delete' image to delete the existing record.



- System display error message if any of the child entry has been entered for this specific record.
- System deletes the newly added record from the table.

### 1.10 Surcharge Amount

User can change and view Surcharge Amount.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Water Rate

Effluent

Surcharge Amount (Rs.) 8	Surcharge Type %age of Bill Amount
Last Update Date 04-May-2017 12:35 PM	Attachment <a href="#">Attachment</a>
<a href="#">Change</a> <a href="#">View History</a>	

Canal Special Water

Surcharge Amount (Rs.) 20	Surcharge Type %age of Bill Amount
Last Update Date 03-May-2017 10:34 AM	Attachment <a href="#">Attachment</a>
<a href="#">Change</a> <a href="#">View History</a>	

Surcharge Amount

1 [Attachment](#)  
[Attachment](#)

- Click on 'Attachment' link to download attached image file.

2 [Change](#)  
[Change](#)

- Click on <Change> button to change the effluent rate.
- System populates a new window for entering new values.

3 [View history](#)  
[View History](#)

- Click on <View History> button navigates the user to History page of effluent rate.

4 [Attachment](#)  
[Attachment](#)

- Click on 'Attachment' link to download attached image file.



5

#### Change

Change

- Click on <Change> button to change the Canal Special Water values.
- System populates a new window for entering new values.

6

#### View history

View History

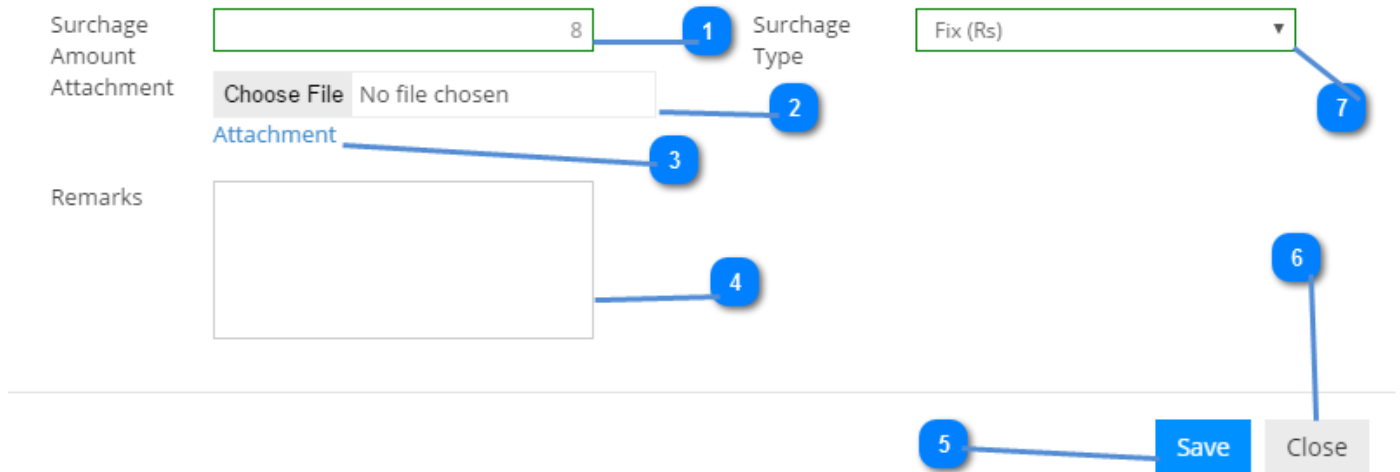
- Click on <View History> button navigates the user to History page of Canal Special Water rate.



### 1.11 Effluent Water

User can update and view already entered surcharge amount.

**How to Access:** Main Menu -> Effluent and Water Charges -> Reference Data -> Surcharge amount



The screenshot shows the 'Surcharge Amount' form. It includes a 'Surcharge Amount' text field (1), a 'Surcharge Type' dropdown menu (2) with 'Fix (Rs)' selected, an 'Attachment' section with a 'Choose File' button and 'No file chosen' text (3), and a 'Remarks' text area (4). At the bottom right, there are 'Save' (5) and 'Close' (6) buttons. A blue line connects the 'Save' button to a 'Close' button, with a callout 7 pointing to the 'Close' button.

#### Surcharge Amount

1

##### Surcharge Amount

- User enters surcharge amount in 'Surcharge Amount' text Field.

2

##### Attachment

 No file chosen

- Click on <Choose File> button pops up a window to insert attachment.

3

##### Attachment

- Click on 'Attachment' link to download attached image file.

4

##### Remarks

- User enters remarks into 'Remarks' text field.

5

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 display error message if any of the required fields has not been entered.
- System displays newly added record.

6

Close

Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

7

Surcharge Type

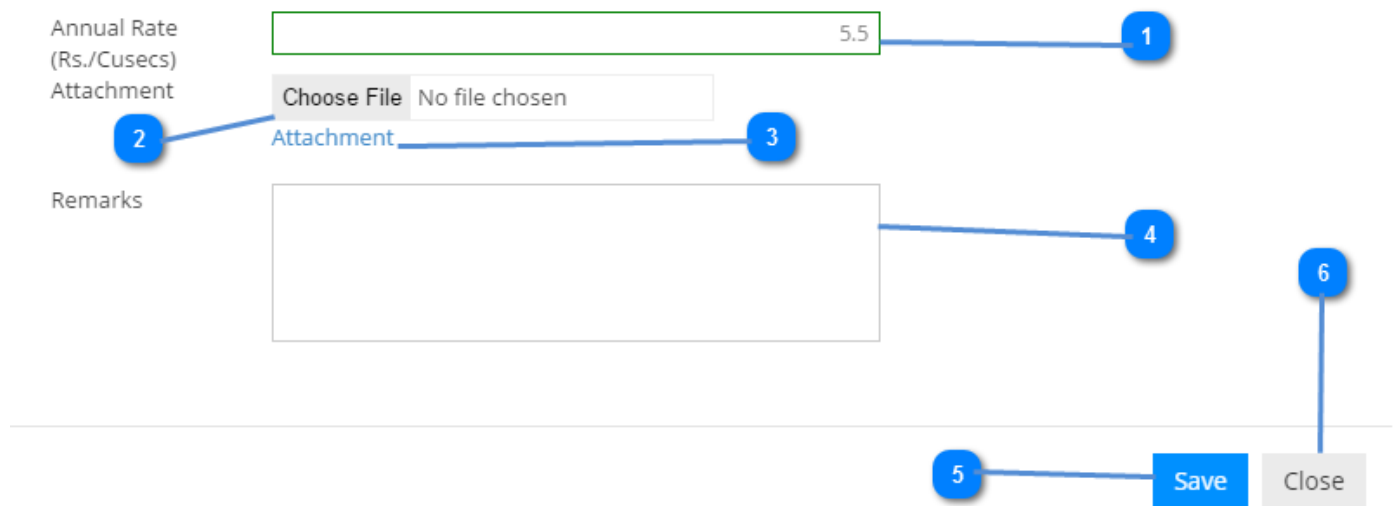
Fix (Rs)

- User selects the type into 'type' dropdown.
- It is mandatory field for adding a new record.

### 1.12 Canal Special Water

User can update and view already entered Canal Special water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate



The screenshot shows a web form for 'Canal Special Water'. It includes the following elements:

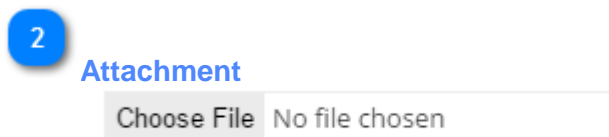
- Annual Rate (Rs./Cusecs):** A text input field containing the value '5.5', indicated by callout 1.
- Attachment:** A section with a 'Choose File' button and 'No file chosen' text, indicated by callout 2. Below it is a link labeled 'Attachment', indicated by callout 3.
- Remarks:** A large text area for notes, indicated by callout 4.
- Buttons:** At the bottom right, there are 'Save' and 'Close' buttons. Callout 5 points to the 'Save' button, and callout 6 points to the 'Close' button.

Surcharge Amount



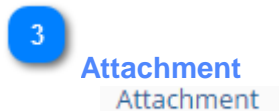
The screenshot shows a form with a single text input field labeled 'Surcharge Amount' containing the value '8', indicated by callout 1.

- User enters surcharge amount in 'Surcharge Amount' text Field.



The screenshot shows a form with a 'Choose File' button and 'No file chosen' text, indicated by callout 2.

- Click on <Choose File> button pops up a window to insert attachment.



The screenshot shows a form with a link labeled 'Attachment', indicated by callout 3.

- Click on 'Attachment' link to download attached image file.



The screenshot shows a form with a text input field labeled 'Remarks', indicated by callout 4.

- User enters remarks into 'Remarks' text field.

5

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 display error message if any of the required fields has not been entered.
- System displays newly added record.

6

Close

Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

7

Surcharge Type

Fix (Rs)

- User selects the type into 'type' dropdown.
- It is mandatory field for adding a new record.

### 1.13 View History of Effluent Water

User can view history of Effluent Water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate

Date	Amount (Rs.)	Type	Remarks	Attachment
04-May-2017 12:35 PM	8	%age of Bill Amount		<a href="#">View Attachment</a>
04-May-2017 12:35 PM	7	Fix (Rs)		<a href="#">View Attachment</a>
04-May-2017 12:34 PM	5	%age of Bill Amount	rr	<a href="#">View Attachment</a>
03-May-2017 10:31 AM	10	Fix (Rs)	Fix	<a href="#">View Attachment</a>

[Close](#)

History view

1

[Attachment](#)  
[Attachment](#)

- Click on 'Attachment' link to download attached image file.

2

[Close](#)



Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

### 1.14 View History of Canal Special Water

User can view history of Canal Special Water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate

Date	Amount (Rs.)	Type	Remarks	Attachment
04-May-2017 12:35 PM	8	%age of Bill Amount		<a href="#">View Attachment</a>
04-May-2017 12:35 PM	7	Fix (Rs)		<a href="#">View Attachment</a>
04-May-2017 12:34 PM	5	%age of Bill Amount	rr	<a href="#">View Attachment</a>
03-May-2017 10:31 AM	10	Fix (Rs)	Fix	<a href="#">View Attachment</a>

[Close](#)

History view

[Attachment](#)

- Click on 'Attachment' link to download attached image file.

[Close](#)

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

### 1.15 Print Bill Setup

User can add, edit, view and delete already created Gauge type.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Print Bill Setup

Help Line No.  1

Effluent Waters

Text 1 2

Text 2 3

Canal Special Waters

Text 1 4

Text 2 5

6   7

### Print Bill Setup

1

Help Line No.

- User enters the Help line No. into 'Help line No.' text field.
- It is mandatory field for adding a new record.

2

Text 1

- User enters the Text into 'Text 1' text field.
- It is mandatory field for adding a new record.

3

Text 2



- User enters the Text into 'Text 2' text field.
- It is mandatory field for adding a new record.

4

#### Text 3

1. Effluent & Water Charges:: saved Remarks are not displayed

- User enters the Text into 'Text 3' text field.
- It is mandatory field for adding a new record.

5

#### Text 4

1. Effluent & Water Charges:: saved Remarks are not displayed

- User enters the Text into 'Text 4' text field.
- It is mandatory field for adding a new record.

6

#### 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 display error message if any of the required fields has not been entered.
- System displays newly added record into the Table.

7

#### Cancel

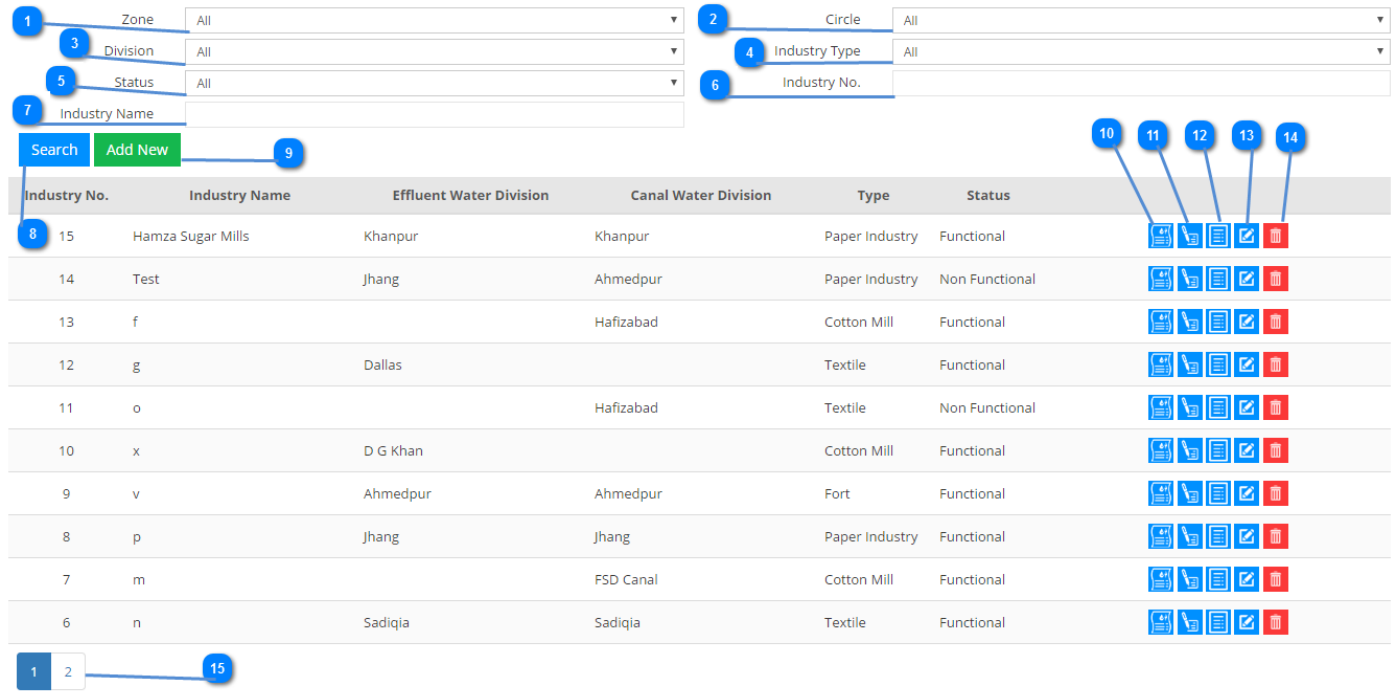
Cancel

- Click on <Cancel> button discard all unsaved changes
- System navigates the user to previous screen.

## 2. Search Industry

This module is an interface to search, edit, delete and view already created Industries.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry



The screenshot shows the 'Industry Search' interface. It includes a search form at the top with fields for Zone, Circle, Division, Industry Type, Status, and Industry No., along with 'Search' and 'Add New' buttons. Below the form is a table listing industries with columns for Industry No., Industry Name, Effluent Water Division, Canal Water Division, Type, and Status. Each row has a set of action icons (view, edit, delete, etc.) on the right. Numbered callouts 1-15 point to various elements: 1 (Zone dropdown), 2 (Circle dropdown), 3 (Division dropdown), 4 (Industry Type dropdown), 5 (Status dropdown), 6 (Industry No. input), 7 (Search button), 8 (Add New button), 9 (Table header), 10-14 (Action icons), and 15 (Page navigation).

Industry No.	Industry Name	Effluent Water Division	Canal Water Division	Type	Status
15	Hamza Sugar Mills	Khanpur	Khanpur	Paper Industry	Functional
14	Test	Jhang	Ahmedpur	Paper Industry	Non Functional
13	f		Hafizabad	Cotton Mill	Functional
12	g	Dallas		Textile	Functional
11	o		Hafizabad	Textile	Non Functional
10	x	D G Khan		Cotton Mill	Functional
9	v	Ahmedpur	Ahmedpur	Fort	Functional
8	p	Jhang	Jhang	Paper Industry	Functional
7	m		FSD Canal	Cotton Mill	Functional
6	n	Sadiqia	Sadiqia	Textile	Functional

### 1 Zone



- User selects a zone from the list of already created zones into 'Zone' dropdown.
- System populates all the circles of that selected zone into 'Circle' dropdown.

### 2 Circle



- User selects a circle from the list of already created circles into 'circle' dropdown.
- System populates all the divisions of that selected circle into 'Division' dropdown.

### 3 Division



- User selects a division from the list of already created Divisions into 'Division' dropdown.

4

#### Industry Type

- User selects Industry Type from the list of already created 'Industry Type' dropdown.

5

#### Status

- User selects Status from 'Status' dropdown.

6

#### Industry No.

- User enters Industry no into 'Industry No.' text field.

7

#### Industry Name

- User enters Industry name into 'Industry Name' text field.

8

#### 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

9

#### Add New

Add New

- Click on <Add New> button, system navigates the user to channel add screen.

10

#### Industry Services



- Click on 'Industry Services' button navigates the user to Industry Services page.

11

#### Sanctioned Discharge/Supply



- Click on 'Sanctioned Discharge/Supply' button navigates the user to Sanctioned Discharge/Supply page.

12

#### Billing Detail



- Click on 'Billing Detail' button navigates the user to Billing Detail page.

13

#### Edit



- Click on edit' button navigates the user to Add/ edit Page of that specific Industry.

14

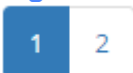
#### Delete



- Click on 'Delete' image to delete the existing record.
- System display error message if any of the child entry has been entered for this specific record.

15

#### Page Numbers



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

## 2.1 Add Industry

User can add Industry

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Add Industry

1	Industry Type	Paper Industry	2	Industry No.	
3	Industry Name	Faizan Cotton Mill	4	Industry Status	Functional
5	NTN No.	121212	6	Address	House no 58 A nawab Street Link Road Lahore
7	Phone No.	090078601	8	Fax	XXXXXXXXXXXX
9	Email	MFaizanChughtai@gmail.com	10	Location: Long.	x-axis
				Lat.	y-axis

Water Treatment Plant Details

11	Plant Exist ?	Yes	12	Plant Condition	Functional
----	---------------	-----	----	-----------------	------------

Contact Person Details

13	Name	Jam	14	Cell No	03336394435
15	CNIC	3120121545451	16	Email	jahanzaib@gmail.com

Adding a new Industry

1

**Industry Type**

Cotton Mill

- User enters Industry type into 'Industry Type' text field.
- It is a mandatory field

2

**Industry No.**

- On saving System auto generate Industry No.
- It is read only field

3

**Industry Name**

Faizan Cotton Mill

- User enters Industry Name into 'Industry Name' text field.
- It is a mandatory field

4

**Industry Status**

Select

- User selects Industry status into 'Industry Status' text field.
- It is a mandatory field.

5

NTN No.

 - 

- User enters the NTN no into 'NTN No.' dropdown.

6

Address

- User enters the address into 'Address' text field.
- It is a mandatory field.

7

Phone No.

- User enters the Phone No. into 'Phone No.' numeric field.
- It is a mandatory field.

8

Fax

- User enters the fax no. into 'Fax' numeric field.

9

Email

- User enters the email address into 'Email' text field.

10

Location

- User enters the location into 'location' text field.

11

Plant Exist

- User selects plant exist option from 'Plant Exist' dropdown.

12

### Plant Condition

Select ▼

- User selects plant exist option from 'Plant Exist' dropdown.

13

### Name

- User enters Name into 'Name' text field.
- It is a mandatory field

14

### Cell No

- User enters Cell No into 'Cell No' text field.
- It is a mandatory field

15

### CNIC

- User enters Industry Name into 'Industry Name' text field.

16

### Email

- User enters email into 'Email' text field.



## Services

☒ Effluent Waters ☒ Canal Special Waters

### Effluent Water Details

1. ☒ Drain ☐ Channel

2. Division: Drainage

3. RD (ft): 10 + 10

4. Discharge Source: Pipe

5. Installation Cost: 50000

6. Agreement End: 30-May-2017

7. Drain: Mianwali Drain

8. Side: Right

9. Installation Date: 30-May-2017

10. Agreement Signed: 30-May-2017

11. Agreement Parties: None

### Canal Special Waters

12. Division: Balloki

Channel	Supply From	Outlet/RD	Installation Date
1AL Feeder Disty	RD	1+001	30-May-2017

13. Save 14. Back 15. Add 16. Delete 17. Print

## Adding a new Industry

1

### Services

☒ Effluent Waters

☒ Canal Special Waters





- User enters Services option into 'Services' check boxes.
- It is a mandatory field

2

#### Outfall into

☒ Drain ☐ Channel

- User select Outfall onto option from 'Outfall Into' radio button.
- It is mandatory field

3

#### Division

Drainage ▼

- User selects Division into 'Division' dropdown.
- It is a mandatory field

4

#### RD (ft)

10 + 10

- User enters the R.D into that specific section.
- R.Ds is mandatory field.

5

#### Discharge Source

Pipe ▼

- User selects discharge source into 'Discharge Source' dropdown.

6

#### Installation Cost

- User enters the installation cost into 'Installation Cost' text field.

7

#### Agreement End

19-May-2017 ✕

- User selects agreement end date into 'Agreement End' calendar dropdown.
- It is mandatory field.

8

#### Drain

Select

- User selects the drain option into 'Drain' dropdown.

9

#### Side

Select

- User selects the side into 'Side' dropdown.

10

#### Installation Date

19-May-2017

- User selects installation date into 'Installation Date' calendar dropdown.
- It is mandatory field.

11

#### Agreement Signed

19-May-2017

- User selects agreement signed date into 'Agreement Signed' calendar dropdown.
- It is mandatory field.

12

#### Agreement Parties

- User enters agreement parties into 'Agreement Parties' text field.

13

#### Division

Drainage

- User selects Division into 'Division' dropdown.
- It is a mandatory field

14

#### Add



- Click on <Add> button adds a new row into the table for adding a new record.

15

#### Delete



- Click on 'Delete' image to delete the existing record.
- System display error message if any of the child entry has been entered for this specific record.
- System deletes the newly added record from the table.

16

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 display error message if any of the required fields has not been entered.
- System displays newly added record into the Table.

17

Back

Back

- Click on <Back> button discard all unsaved changes
- System navigates the user to channel search screen.



## 2.2 Industry Services

User can add edit Industry Services.

**How to Access:** Main Menu -> Canal Special and Water Charges - > Industry -> Industry Services

**Industry Name**  
Hamza Sugar Mills

**Industry Type**  
Paper Industry

**Industry ID**  
15

**Industry Status**  
Functional

**Effluent Water Details**

De-activate Service ☐

Division: Khanpur

RD (ft): 5 + 550

Discharge Source: Pipe

Installation Cost:

Agreement End: 19-May-2017

Outfall into: Drain ☐ Channel ☒

Channel: Dashtian Disty

Side: Right

Installation Date: 18-May-2017

Agreement Signed: 19-May-2017

Agreement Parties:

Save

**Canal Special Waters**

Division: Khanpur

Channel	Supply From	Outlet/RD	Installation Date	De-Activate	
Channel Minor	Outlet	3+620/L	18-May-2017	False	
1/L Abehayat Minor	Outlet	102+300/R	01-Feb-2017	False	
Ashraf Minor	RD	2+002/R	02-Nov-2016	False	

Back

Adding Irrigational Boundaries



1

### Parent Information

Industry Name  
Hamza Sugar Mills  
Industry Type  
Paper Industry

Industry ID  
15  
Industry Status  
Functional

- System displays the basic information of that particular Industry.

2

### De-activate Service

☐

- Click on <De-activate> check box to de-activate service.

3

### Division

Khanpur

- System populates the user's division into 'Division' dropdown.
- It is mandatory field for adding a new record.

4

### RD

5

+

550

- User enters the R.D of the channel into that specific section.
- R.Ds is mandatory field.

5

### Discharge Source

Pipe

- User selects a discharge source into 'Discharge Source' dropdown.
- It is mandatory field.

6

### Installation Cost

- User enters the Installation cost into 'Installation Cost' text field.
- It is mandatory field.

7

### Agreement End



19-May-2017



- User selects agreement end date into 'Agreement End' calendar dropdown.
- It is mandatory field.

8

#### Outfall into

☐ Drain ☒ Channel

- User selects Outfall into option from 'Outfall into' radio button.

9

#### Channel

1/L Abehayat Minor

- User selects channel into 'Channel' dropdown.
- It is mandatory field.

10

#### Side

Right

- User selects channel side into 'Side' dropdown.
- It is mandatory field.

11

#### Installation Date

19-May-2017

- User selects Installation date into 'Installation Date' calendar dropdown.
- It is mandatory field.

12

#### Agreement Signed

19-May-2017

- User selects agreement signed date into 'Agreement Signed' calendar dropdown.
- It is mandatory field.

13

#### Agreement Parties

- User enters agreement parties into 'Agreement Parties' text field.
- It is mandatory field.

14

#### 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 display error message if any of the required fields has not been entered.
- System displays newly added record into the Table

15

Division

Khanpur

- System populates the user’s division into ‘Division’ dropdown.
- It is mandatory field for adding a new record.

16

Add



- Click on <Add> button adds a new row into the table for adding a new record.

17

Edit



- Click on ‘Edit’ image to edit the existing record.
- System opens the record into editable form.

18

Delete



- Click on ‘Delete’ image to delete the existing record.
- System display error message if any of the child entry has been entered for this specific record.
- System deletes the newly added record from the table

19

Back

Back

- Click on <Back> button discard all unsaved changes
- System navigates the user to previous screen.

### 2.3 Canal Special Water

System consider lowest R.D point as the head gauge and highest R.D point as tail gauge of the channel defined into irrigation boundary page. System allows the user to add different gauges according to gauge type with in the R.D range of irrigational boundary of the channel.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Industry Services

The screenshot shows a web form for adding canal special water. It contains the following fields and callouts:

- 1: Channel (Dropdown menu)
- 2: RD (ft) (Two input boxes with a plus sign between them)
- 3: Supply Source (Dropdown menu)
- 4: Installation Cost (Input box)
- 5: Agreement Date (Calendar icon and input box)
- 6: End Date (Calendar icon and input box)
- 7: Supply From (Radio buttons for RD and Outlet)
- 8: Side (Dropdown menu)
- 9: Installation Date (Calendar icon and input box)
- 10: Agreement Date (Calendar icon and input box)
- 11: Agreement (Input box)
- 12: Parties (Input box)

At the bottom right, there are 'Save' and 'Close' buttons.

Add Canal Special Water

The detailed view shows the following fields and callouts:

- 1: Channel (Dropdown menu)
- 2: RD (Two input boxes with a plus sign between them)
- 3: Supply Source (Dropdown menu)

- User selects channel into 'Channel' dropdown.
- It is mandatory field.

- User enters the R.D of the channel into that specific section.
- R.Ds is mandatory field.

- User selects a discharge source into 'Discharge Source' dropdown.



- It is mandatory field.

4

#### Installation Cost

- User enters the Installation cost into 'Installation Cost' text field.
- It is mandatory field.

5

#### Agreement End

 19-May-2017 

- User selects agreement end date into 'Agreement End' calendar dropdown.
- It is mandatory field.

6

#### Supply From

☒ RD ☐ Outlet

- User selects Supply from into option from 'Supply From' radio button.

7

#### Installation Date

 19-May-2017 

- User selects Installation date into 'Installation Date' calendar dropdown.
- It is mandatory field.

8

#### Agreement Signed

 19-May-2017 

- User selects agreement signed date into 'Agreement Signed' calendar dropdown.
- It is mandatory field.

9

#### Agreement Parties

- User enters agreement parties into 'Agreement Parties' text field.
- It is mandatory field.

10

#### 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 display error message if any of the required fields has not been entered.
- System displays newly added record into the Table

11

Close

Close

- Click on <Close> button discards the unsaved changes.
- System closes the pop up window.

## 2.4 Annual Sanctioned and Water Supply


User can add, edit and view Sanctioned Discharge/Supply.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Annual Sanctioned Discharge/Supply



1

### Sanctioned Date



- User selects the sanctioned date into 'Sanctioned Date' calendar dropdown.
- System shows current date by default into calendar dropdown.

2

### Sanctioned Authority

- User enters the Sanctioned Authority name into 'Sanctioned Authority' text field.

3

### Attachment

Attachment

- Click on 'Attachment' hyperlink downloads the attached file.

4

### Sanctioned No

- User enters the Sanctioned Authority name into 'Sanctioned Authority' text field.

5

### Sanctioned Discharge (Cusec)

- User enters the Sanctioned Discharge into 'Sanctioned Discharge (Cusec)' numeric field.

6

Change

Change

- Click on <Change> button make all above fields editable.

7

View history

View History

- Click on <View History> button navigates the user to History page.

8

Back




Back

- Click on <Back> button discard all unsaved changes
- System navigates the user to previous screen.

## 2.5 Canal Special Water at Sanctioned Discharge/Supply

User can update and view already entered Canal Special water.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Reference Data -> Water Rate

Outlet/RD	Supply Type	Sanctioned Date	Sanctioned No.	Sanctioned Authority	Sanctioned Supply (Cusec)	
2+001/R	RD	24-May-2017	1122	Muhammad Faizan	40000	 
<a href="#">Back</a>						

### Surcharge Amount

1

Edit



- Click on 'Edit' image to edit the existing record.
- System opens the record into editable form.

2

History



- Click on View History' image button pops up the history of the record.

3

Back

Back

- Click on <Back> button discard all unsaved changes
- System navigates the user to previous screen.



## 2.6 View History of Effluent Water at Sanctioned Discharge/Supply

User can view history of Effluent Water at sanctioned Discharge/Supply.

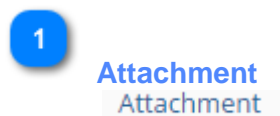
**How to Access:** Main Menu -> Canal Special and Water Charges - > Industry -> Annual Sanctioned Discharge/Supply

Sanctioned Date	Sanctioned No.	Sanctioned Authority	Sanctioned Supply	Attachment
24-May-2017	1122	Muhammad Faizan	40000	<a href="#">Attachment</a>

1

2 Close

History view



- Click on 'Attachment' link to download attached image file.



2

Close

Close

- Click on <Close> button system closes the pop up window.

## 2.7 Bill Detail

User can view Bill Detail.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Bill Detail



Industry Name: Hamza Textile Mills Industry No.: 23 Division: Khanpur

Service Type: ☒ Effluent Waters ☐ Canal Special Waters Financial Year: 2016-2017

### Effluent Water Bill Information

Effluent Charges (Rs.)	22,361.64	Bill No.	EW-2016-17-000002
Applicable Taxes (Rs.)	5,913.29	Bill Issue Date	09-May-2017
Adjustments (Rs.)	-2,000.00	Bill Due Date	31-May-2017
Total Bill (Rs.)	26,274.93	Bill Status	Finalized
Arrears (Rs.)	0.00	Sanctioned Discharge (cusec)	1.10
Advance Paid (Rs.)	7,000.00	Effluent Rate (Rs.)	35,000.00
Payable Amount before Due Date (Rs.)	19,274.93		
Surcharge (Rs.)	2,000.00		
Payable Amount after Due Date (Rs.)	21,274.93		

### Bill Details

Charges Type	Description	Amount (Rs.)	Remarks
Charges	Current Year Charges	22,361.64	10+1/R
Taxes	Withholding Tax	2,000.00	Fix (Rs)
Taxes	Sales Tax	3,913.29	%age of Bill Amount
Adjustments	Generic Adjustments	-2,000.00	Over billing adjusted
Advance Payments	Industry Advance Payments	7,000.00	Advance Payments

Back

## History view

### 1 Parent Information

Industry Name: Hamza Textile Mills Industry No.: 23 Division: Khanpur

Service Type: ☒ Effluent Waters ☐ Canal Special Waters Financial Year: 2016-2017

### Effluent Water Bill Information

Effluent Charges (Rs.)	22,361.64	Bill No.	EW-2016-17-000002
Applicable Taxes (Rs.)	5,913.29	Bill Issue Date	09-May-2017
Adjustments (Rs.)	-2,000.00	Bill Due Date	31-May-2017
Total Bill (Rs.)	26,274.93	Bill Status	Finalized
Arrears (Rs.)	0.00	Sanctioned Discharge (cusec)	1.10
Advance Paid (Rs.)	7,000.00	Effluent Rate (Rs.)	35,000.00
Payable Amount before Due Date (Rs.)	19,274.93		
Surcharge (Rs.)	2,000.00		
Payable Amount after Due Date (Rs.)	21,274.93		

### Bill Details

Charges Type	Description	Amount (Rs.)	Remarks
Charges	Current Year Charges	22,361.64	10+1/R
Taxes	Withholding Tax	2,000.00	Fix (Rs)
Taxes	Sales Tax	3,913.29	%age of Bill Amount
Adjustments	Generic Adjustments	-2,000.00	Over billing adjusted
Advance Payments	Industry Advance Payments	7,000.00	Advance Payments

Back





- System displays parent information in read only form.

2

#### Service Type

☒ Effluent Waters ☐ Canal Special Waters

- User selects service type option from 'Service type' radio button option.

3

#### Financial Year

2016-2017 ▼

- User selects financial year option from 'Financial Year' dropdown.
- System displays current year by default.

4

#### Back

Back

- Click on <Back> button discard all unsaved changes
- System navigates the user to previous screen.

## 2.8 Generate Bills

User can generate bills of effluent water and canal special water on this page.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Generate Bills

The screenshot shows the 'Generate Bills' form with the following fields and callouts:

- 1. Service Type: Radio buttons for 'Effluent Water' (selected) and 'Canal Special Water'.
- 2. Financial Year: Dropdown menu showing '2016-2017'.
- 3. Bill Issue Date: Calendar icon and text input showing '02-Jun-2017'.
- 4. Bill Due Date: Calendar icon and text input showing '02-Jun-2017'.
- 5. Taxes: Checkmark for 'Include Applicable Taxes'.
- 6. Adjustments: Section with 'Adjustment' (+/-), '% age of bill (exclu)', and a value of '10'.
- 7. Reason: Text input showing 'Testing'.
- 8. Generate Bill: Blue button to submit the form.

1

### Source Type

☒ Effluent Water ☐ Canal Special Water

- User selects Source type from 'Source Type' radio buttons.
- It is a mandatory field.

2

### Financial Year

2016-2017

- System shows financial year into 'Financial Year' field.
- It's a read only field.

3

### Bill Issue Date

02-Jun-2017

- User selects bill issue date into 'Bill Issue Date' calendar dropdown.
- It is mandatory field.

4

### Bill Due Date

02-Jun-2017

- User selects bill due date into 'Bill Due Date' calendar dropdown.
- It is mandatory field.



5

### Taxes

☒ Include Applicable Taxes

- User includes applicable taxes into 'Taxes' check box.

6

### Adjustment

<input type="text" value="+"/> ▼	<input type="text" value="% age of bill (exclu"/> ▼	<input type="text" value="10"/>
----------------------------------	---	---------------------------------

- User includes adjustment into 'Adjustment' field.

7

### Reason

- User enters reason into 'Reason' text field.

8

### Generate Bill

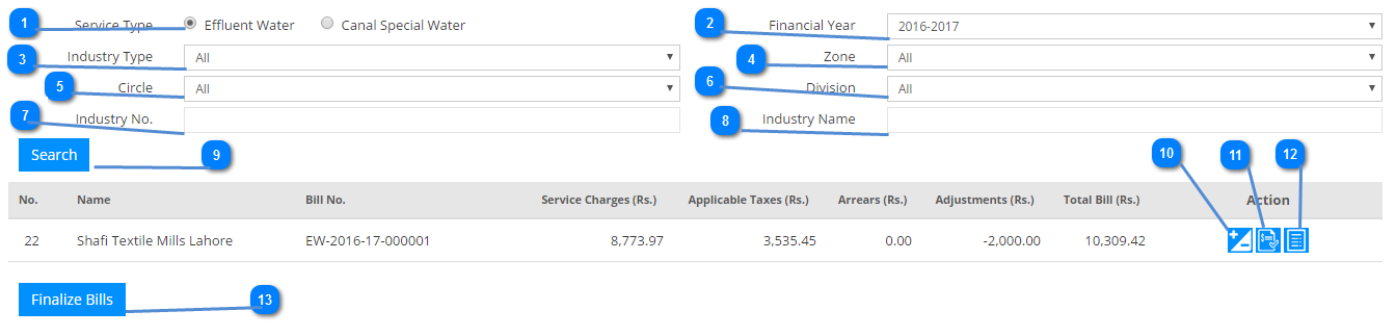
Generate Bill

- Click on <Generate Bill> button, system verify all the required fields.
- System saves the data into the database & displays a message "Bill Generated successfully".
- System display error message if any of the required fields has not been entered.
- System displays newly added record into the Table.

## 2.9 Finalize Bills

User can finalize bill from this screen.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Finalize Bills



The screenshot shows the 'Finalize Bills' interface. It includes a form with the following fields and callouts:

- 1: Service Type (radio buttons for Effluent Water and Canal Special Water)
- 2: Financial Year (dropdown menu showing 2016-2017)
- 3: Industry Type (dropdown menu showing All)
- 4: Zone (dropdown menu showing All)
- 5: Circle (dropdown menu showing All)
- 6: Division (dropdown menu showing All)
- 7: Industry No. (text input field)
- 8: Industry Name (text input field)
- 9: Search button
- 10: Table header 'Action' with icons for edit, delete, and print
- 11: Table row for 'Shafi Textile Mills Lahore' with bill number 'EW-2016-17-000001' and total bill amount '10,309.42'
- 12: Table row for 'Shafi Textile Mills Lahore' with bill number 'EW-2016-17-000001' and total bill amount '10,309.42'
- 13: Finalize Bills button

No.	Name	Bill No.	Service Charges (Rs.)	Applicable Taxes (Rs.)	Arrears (Rs.)	Adjustments (Rs.)	Total Bill (Rs.)	Action
22	Shafi Textile Mills Lahore	EW-2016-17-000001	8,773.97	3,535.45	0.00	-2,000.00	10,309.42	[Edit] [Delete] [Print]

### Finalize Bills

1

#### Source Type

☒ Effluent Water ☐ Canal Special Water

- User selects Source type from 'Source Type' radio buttons.
- It is a mandatory field.

2

#### Financial Year

2016-2017

- System shows financial year into 'Financial Year' field.
- It's a read only field.

3

#### Industry Type

All

- User enters Industry type into 'Industry Type' text field.
- It is a mandatory field

4

#### Zone

All

- User selects a zone from the list of already created zones into 'Zone' dropdown.

- System populates all the circles of that selected zone into 'Circle' dropdown.

5

#### Circle

- User selects a circle from the list of already created circles into 'circle' dropdown.
- System populates all the divisions of that selected circle into 'Division' dropdown.

6

#### Division

- User selects a division from the list of already created Divisions into 'Division' dropdown.

7

#### Industry No.

- User enters Industry no. into 'Industry No.' text field.

8

#### Industry Name

- User enters Industry Name into 'Industry Name' text field.
- It is a mandatory field

9

#### 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

10

#### Special Adjustment



- Click on 'Special Adjustment' image button pops up a window for special adjustments.

11

#### Finalize Bill



- Click on 'Finalize Bill' image button finalize individual bill.

12

#### Bill Detail



- Click on 'Bill Detail' image button navigates the user to bill detail page.

13

#### Finalize Bill

Finalize Bills

- Click on 'Finalize Bill' image button finalize all the bills.



## 2.10 Print Bills

User can print bill from this screen.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Print Bills

1 Service Type ☒ Effluent Water ☐ Canal Special Water

2 Financial Year 2016-2017

3 Industry Type All

4 Zone All



5 Circle All

6 Division All

7 Industry No.

8 Industry Name

9 Search

No.	Name	Bill No.	Service Charges (Rs.)	Applicable Taxes (Rs.)	Arrears (Rs.)	Adjustments (Rs.)	Total Bill (Rs.)	Action
23	Hamza Textile Mills	EW-2016-17-000002	22,361.64	5,913.29	0.00	-2,000.00	26,274.93	 

10 Print All Bills 11

12

Print Bills

1

Source Type



☒ Effluent Water ☐ Canal Special Water

- User selects Source type from 'Source Type' radio buttons.
- It is a mandatory field.

2

#### Financial Year

- System shows financial year into 'Financial Year' field.
- It's a read only field.

3

#### Industry Type

- User enters Industry type into 'Industry Type' text field.
- It is a mandatory field

4

#### Zone

- User selects a zone from the list of already created zones into 'Zone' dropdown.
- System populates all the circles of that selected zone into 'Circle' dropdown.

5

#### Circle

- User selects a circle from the list of already created circles into 'circle' dropdown.
- System populates all the divisions of that selected circle into 'Division' dropdown.

6

#### Division

- User selects a division from the list of already created Divisions into 'Division' dropdown.

7

#### Industry No.

- User enters Industry no. into 'Industry No.' text field.



8

#### Industry Name

- User enters Industry Name into 'Industry Name' text field.
- It is a mandatory field

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

10

#### Bill Detail



- Click on 'Bill Detail' image button navigates the user to bill detail page.

11

#### Print Bill



- Click on 'Print Bill' image button prints the selected bills.

12

#### Print Bills

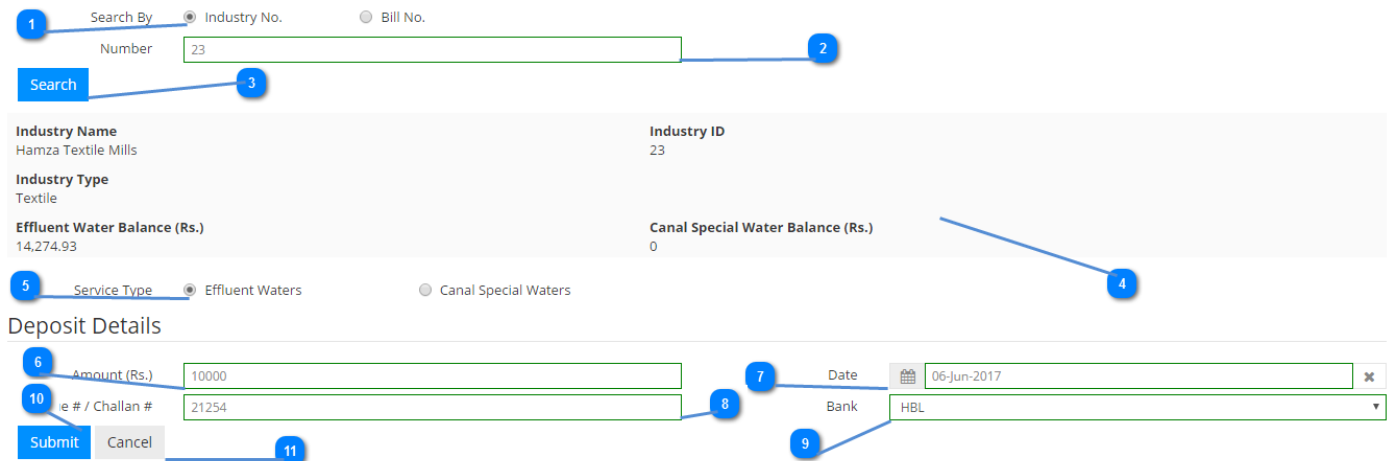
Print All Bills

- Click on 'Print Bills' image button prints all the listed bills.

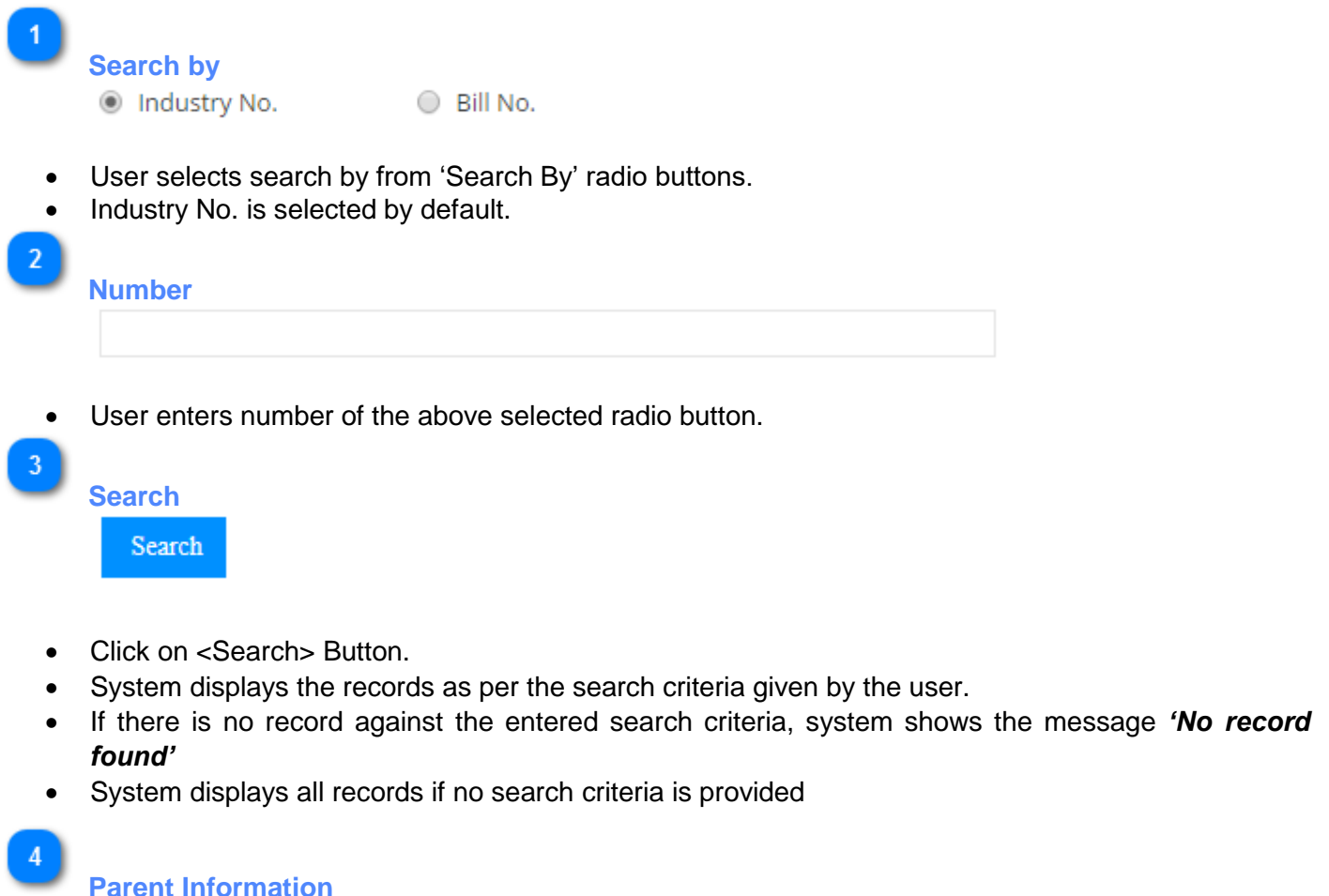
### 2.11 Payments

User can perform payments from this screen.

**How to Access:** Main Menu -> Canal Special and Water Charges -> Industry -> Payments



## Payments



**1 Search by**

☒ Industry No. ☐ Bill No.

- User selects search by from 'Search By' radio buttons.
- Industry No. is selected by default.

**2 Number**

- User enters number of the above selected radio button.

**3 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

**4 Parent Information**



**Industry Name**  
Hamza Textile Mills

**Industry ID**  
23

**Industry Type**  
Textile

**Effluent Water Balance (Rs.)**  
14,274.93

**Canal Special Water Balance (Rs.)**  
0

- System displays parent information here.

5

#### Service Type

☒ Effluent Water ☐ Canal Special Water

- User selects Service type from 'Service Type' radio buttons.
- It is a mandatory field.

6

#### Amount

- User enters amount into 'Amount' text field.

7

#### Date

- User selects date into 'Date' calendar dropdown.

8

#### Cheque # / Challan #.

- User enters Cheque / challan no. into 'Cheque # / challan #' text field.

9

#### Bank

- User selects bank name into 'Bank' text field.

10

#### Submit

Submit



- Click on <Submit> Button to submit Deposit Details.
- System displays the records as per the search criteria given by the user.
- System displays all records if no search criteria is provided

11

Cancel

Cancel

- Click on <Cancel> button discard all unsaved changes
- System navigates the user to previous screen.