



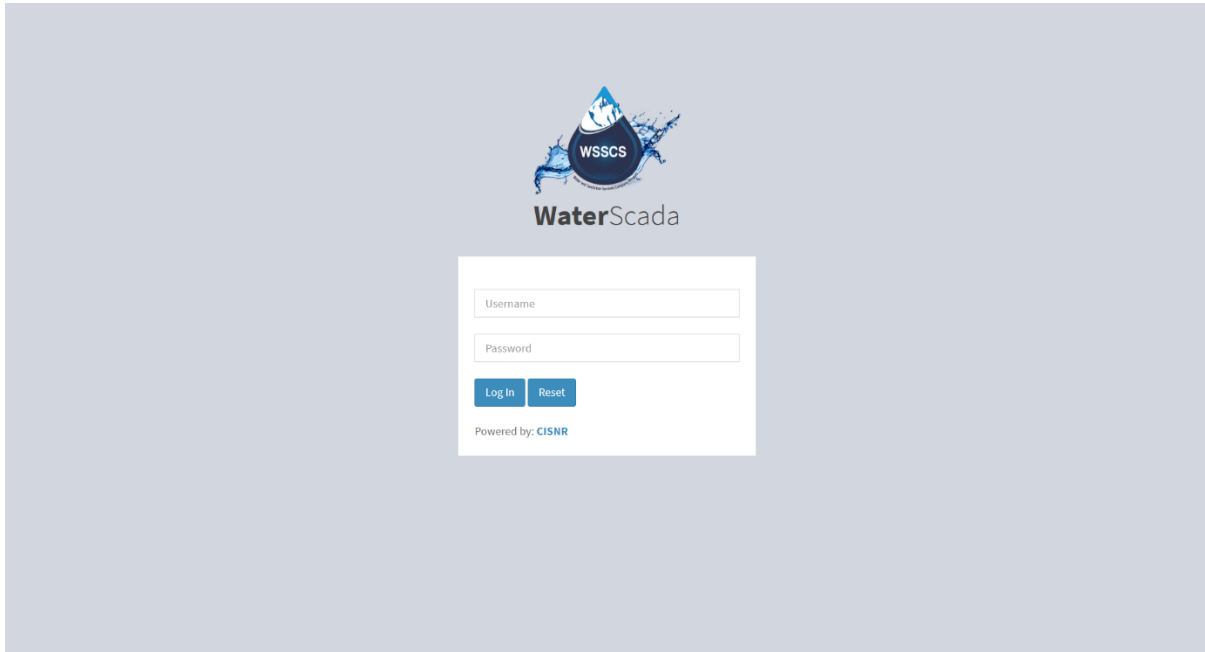
**Tutorial for Water Scada Website**  
**Prepared by: CISNR**

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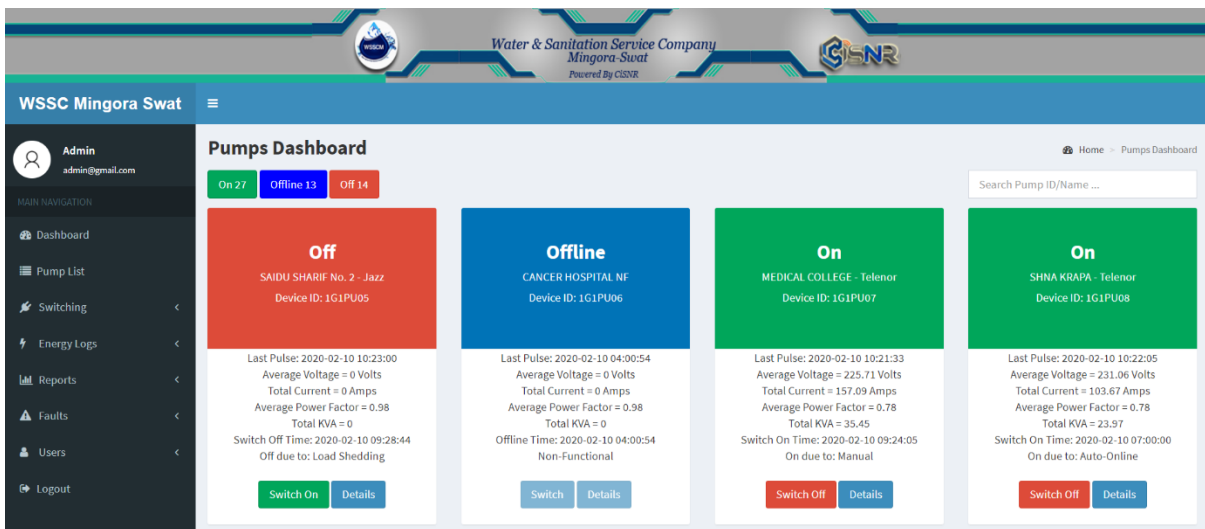
## 1. Login

To login, open browser i.e. Google chrome (recommended), Mozilla Firefox Internet explorer, Microsoft edge etc. and enter the link: [www.wsscs.net](http://www.wsscs.net). It will display the following page. Enter your credentials i.e. your username and password and press enter or click login.



## 2. Pumps Dashboard

After you login, the first page you see will be pumps dashboard.



This dashboard has multiple information about pumps. These are listed below:

- Current Status (Ex. On/Off/Offline)
- Name/location (Ex. SAIDU SHARIF No. 2 - Jazz)
- Device ID (Ex. IG1PU05)
- **Last Pulse:** Last time when the device communicated with the server.

## Water Scada Website Tutorial

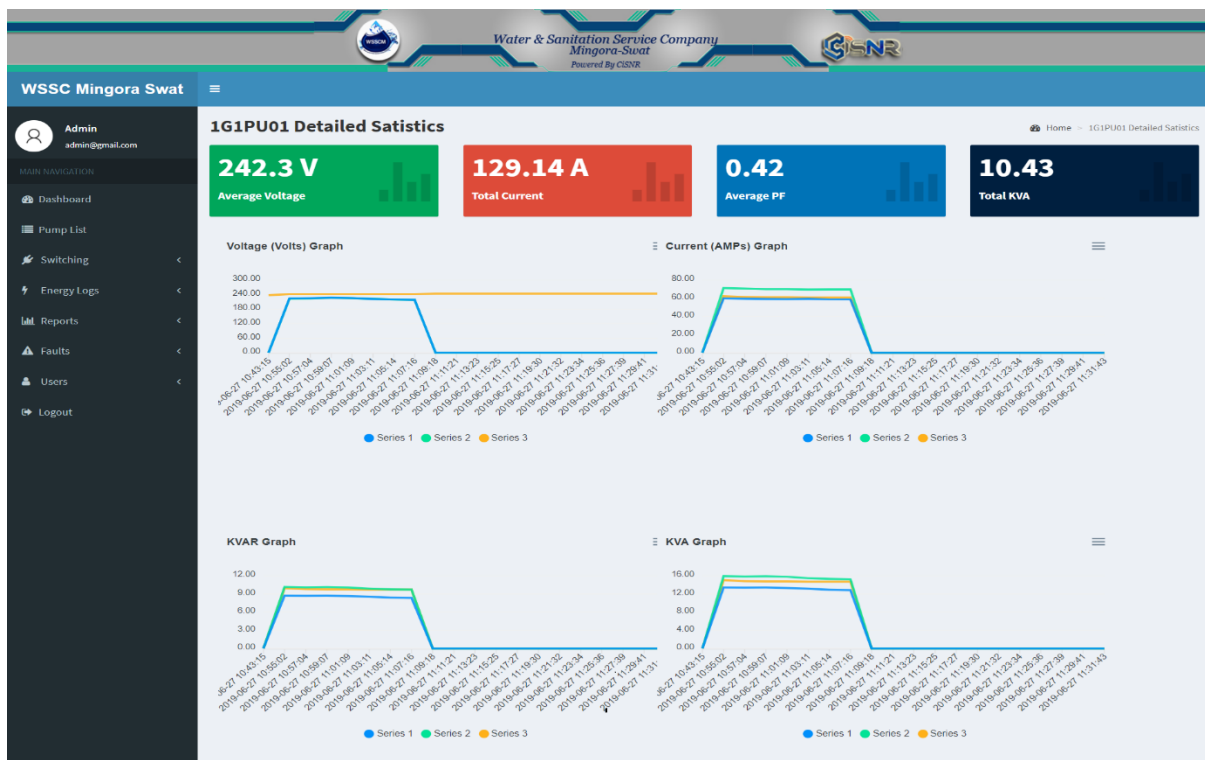
- Average Voltage (in volts)
- Total Current (in amps)
- Average Power Factor
- Total KVA
- Switch on time (Last event time)
- On due to: (Cause of the last event Ex. Manual/Auto/Load Shedding)

There are two buttons on the card for each pump:

- **Switch**  
Switch has the states.
  - **Switch On** Switch On  
It means the pump is currently switched off. By pressing this button, pump will be switched on.
  - **Switch Off** Switch Off  
It means that pump is currently switched on. By clicking this button, pump will be switched off.
  - **Switch (Disabled button)** Switch  
The disabled button means that there is no communication with the device and it's in an offline status.
- **Details** Details  
By clicking details button, detail dashboard of the specific pump will be dashboard. When the device is in offline state, this button is disabled.

## 3. Device Dashboard

By clicking details button on pumps dashboard, the following page is displayed:



# Water Scada Website Tutorial

The above page the following information about pump:

- Average Voltage (in Volts)
- Total Current (in Amps)
- Average PF (Power Factor)
- Total KVA
- Voltage graph
- Current Graph
- KVA Graph
- KVAR Graph
- KWH Graph

## 4. Pump List

By clicking pump list from the side bar, the following page is displayed:





The screenshot shows the 'Pump List' page in the WSSC Mingora Swat system. The page features a sidebar with navigation options and a main content area displaying a table of pumps. The table has the following columns: Pump ID, Name, Location, Capacity (KVA), Connection Date, and Actions. The data is as follows:

Pump ID	Name	Location	Capacity (KVA)	Connection Date	Actions
1G1PU01	Akhun baba - Jazz	AkhunBaba - Jazz3043	40	2017-12-21 05:00:00	Edit Delete
1G1PU02	Shahgai - Jazz	Shagai-Jazz3050	50	2019-06-25 00:00:00	Edit Delete
1G1PU03	Khona Cham - Jazz	KhonaCham-Jazz2904	40	2017-12-21 05:00:00	Edit Delete
1G1PU04	Saidu Sharif (1)	Saidu Sharif (1)	50	2019-02-12 11:28:33	Edit Delete
1G1PU05	SAIDU SHARIF No. 2 - Jazz	SAIDU SHARIF No. 2 Jazz 2953	40	2019-02-12 11:28:33	Edit Delete
1G1PU06	CANCER HOSPITAL NF	CANCER HOSPITAL used rarely	50	2019-02-12 11:28:33	Edit Delete
1G1PU07	MEDICAL COLLEGE - Telenor	MEDICAL COLLEGE	50	2019-02-12 11:28:33	Edit Delete
1G1PU08	SHNA KRAPA - Telenor	SHNA KRAPA	50	2019-02-12 11:28:33	Edit Delete
1G1PU09	AFSAR ABAD - Telenor	AFSAR ABAD	50	2019-02-12 11:28:33	Edit Delete
1G1PU10	FAIZ ABAD No. 1 - NF	FAIZ ABAD (1)	40	2019-02-12 11:28:33	Edit Delete

Pump list page show the following information about the pump:

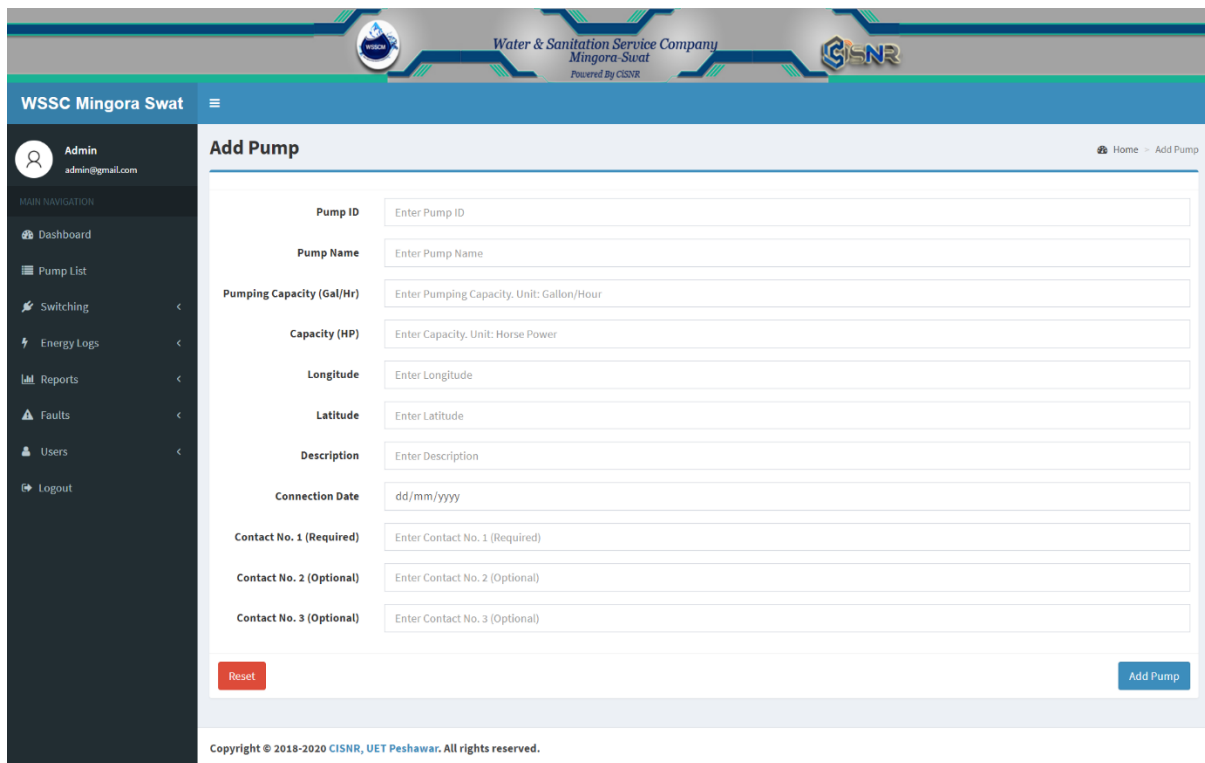
- Pump ID
- Pump Name
- Location
- Capacity (HP)
- Connection Date

Pump list page also has three buttons:

- **Add New Pump**  By clicking add new pump, new page will be open where you can add new pump.
- **Edit**  By clicking edit button, new page will be open where you can edit a pump.
- **Delete**  By clicking delete button, that specific pump will be deleted.
- **Download**  By clicking download button, all data displayed in that table will be downloaded.

## 5. Add New Pump

By clicking Add New Pump, following page is displayed. Enter data in all given fields and press add pump button to add the pump into the system.



The screenshot shows the 'Add Pump' form in the WSSC Mingora Swat website. The form is titled 'Add Pump' and is located in the main content area. The form fields are as follows:

- Pump ID**: Enter Pump ID
- Pump Name**: Enter Pump Name
- Pumping Capacity (Gal/Hr)**: Enter Pumping Capacity. Unit: Gallon/Hour
- Capacity (HP)**: Enter Capacity. Unit: Horse Power
- Longitude**: Enter Longitude
- Latitude**: Enter Latitude
- Description**: Enter Description
- Connection Date**: dd/mm/yyyy
- Contact No. 1 (Required)**: Enter Contact No. 1 (Required)
- Contact No. 2 (Optional)**: Enter Contact No. 2 (Optional)
- Contact No. 3 (Optional)**: Enter Contact No. 3 (Optional)

At the bottom of the form, there is a 'Reset' button on the left and an 'Add Pump' button on the right. The footer of the page reads: Copyright © 2018-2020 CISNR, UET Peshawar. All rights reserved.

## 6. Delete Pump

By clicking delete button, that specific pump will be deleted.

## 7. Edit Pump

By clicking edit button, following page is displayed. You can edit all the fields except the pump ID and Connection Date. Contact no.1 is mandatory while contact no. 2 and contact no.3 are optional.

WSSC Mingora Swat

Admin  
admin@gmail.com

MAIN NAVIGATION

- Dashboard
- Pump List
- Switching
- Energy Logs
- Reports
- Faults
- Users
- Logout

**Edit Pump**

Home - Edit Pump

Pump ID: 1G1PU01

Pump Name: Akhun baba - Jazz

Pumping Capacity (Gal/Hr): 10

Capacity (HP): 40

Longitude: 0

Latitude: 0

Description: AkhunBaba - Jazz3043

Connection Date: 2017-12-21 05:00:00

Contact No. 1 (Required): Enter Contact No. 1 (Required) Ex: 923101234567

Contact No. 2 (Optional): Enter Contact No. 2 (Optional) Ex: 923101234567

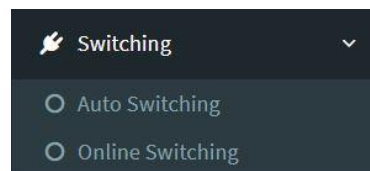
Contact No. 3 (Optional): Enter Contact No. 3 (Optional) Ex: 923101234567

Edit Pump

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## 8. Switching

Switching is a button on sidebar which acts as dropdown having the following two options:



### 8.1. Auto Switching

By clicking on auto switching, the following table is displayed. On this page you can schedule different times on which a pump is switched on and off. Here you have the option of time adjustment in case there is load shedding during the requested pump operation time.

WSSC Mingora Swat

Admin  
admin@gmail.com

MAIN NAVIGATION

- Dashboard
- Pump List
- Switching
- Energy Logs
- Reports
- Faults
- Users
- Logout

**Auto Switching**

Home - Auto Switching

+ Add Auto Switching Job

Show 10 entries

Search:

Pump	Start Time	Off Time	Repeat	Enable/Disable	Auto Status	Auto Time Adjustment	Signal Strength	Job Creation Date & Time	Actions
AFSAR ABAD - Telenor	07:00:00 am	04:00:00 pm	Daily	On	Off	Enable	Weak	2020-02-06 14:01:34	Edit Delete
Akhun baba - Jazz	07:00:00 am	01:00:00 pm	Daily	On	Off	Enable	Weak	2020-01-29 17:08:49	Edit Delete
Amankot No. 2 - Jazz	06:00:00 am	02:30:00 pm	Daily	On	Off	Enable	Weak	2020-01-29 17:08:57	Edit Delete
Amankot No. 1 - Jazz	08:00:00 am	02:30:00 pm	Daily	On	Off	Enable	Strong	2020-01-29 17:09:12	Edit Delete
AMANKOT No. 3 - Telenor	04:00:00 pm	12:00:00 am	Daily	On	Off	Enable	Strong	2020-01-29 17:09:46	Edit Delete

The important information on this page is the signal strength. This shows how strong is the connection of the device with the server. It has three modes:

- Strong (Signals are strong and device is acting as expected.)
- Moderate (Signals are moderate and device may act as expected.)
- Weak (signals are weak and device may misbehave.)
- Offline (device has no communication with server.)

It is highly recommended that enable auto schedule when signal strength is strong or moderate. Avoid the auto schedule option in weak and offline modes

This page has 5 buttons. All of these are described in detail:

### 8.1.1. Add Auto Switching Job [+ Add Auto Switching Job](#)


By clicking the button, the following page gets open. Fill all the required filed and press add pump button to add schedule to the system.


The screenshot shows the 'Add Auto Switching Job' interface. It includes a sidebar with user information (Admin, admin@gmail.com) and navigation links. The main form has a 'Pump ID' input field, a 'Daily' checkbox, and seven rows for days of the week (Monday to Sunday). Each row contains 'Start Time' and 'End Time' input fields. At the bottom, there are 'Reset' and 'Add Pump' buttons.


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### 8.1.2. Enable/Disable

From this option you can enable and disable specific auto-switching job. It has two states.

 **Enable** It means that auto-switching is currently disabled. By button, it will be enabled.

 **Disable** It means that auto-switching is currently enabled. By button, it will get disabled.


 **Offline** It means that pump has no communication with server. You can't enable/disable auto switching because it's non-functional.


### 8.1.3. Auto Time Adjustment

Auto time adjustment is the feature of our Scada which helps the pumps in completing their running hours. For example, a pump switches off due to load shedding and it's running time gets effected, our system will automatically turn it on to complete its running hours once the electricity gets restored. User can enable or disable this feature according his/her wish. It has two states:



## Water Scada Website Tutorial

 **Enable** It means that auto-time adjustment is currently disabled. By button, it will be enabled.

 **Disable** It means that auto-time adjustment is currently enabled. By button, it will be disabled.

### 8.1.4. Edit Auto Switching

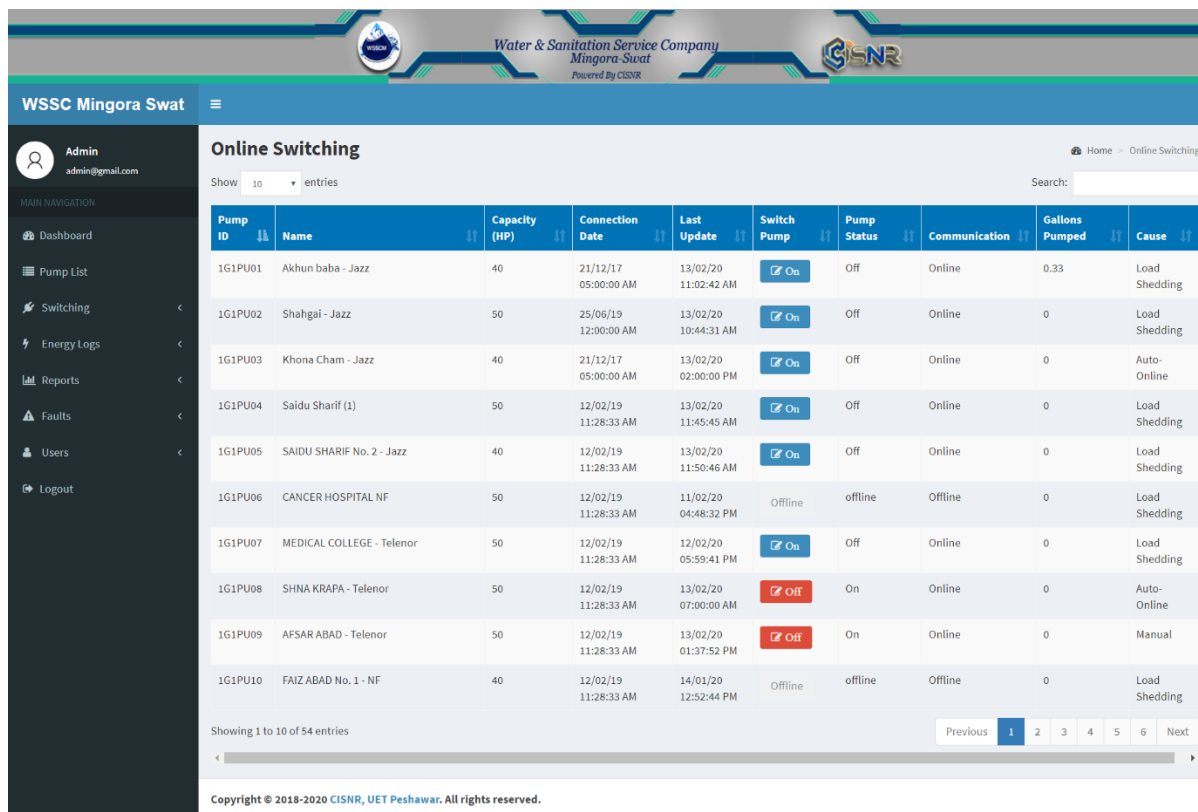
From edit auto- switching, you can change schedule of the specific pump on that specific day.









### 8.1.5. Delete

By clicking this button, you can delete specific auto-switching job.


## 8.2. Online Switching

By clicking online switching, the following page will be displayed:



Pump ID	Name	Capacity (HP)	Connection Date	Last Update	Switch Pump	Pump Status	Communication	Gallons Pumped	Cause
1G1PU01	Akhun baba - Jazz	40	21/12/17 05:00:00 AM	13/02/20 11:02:42 AM		Off	Online	0.33	Load Shedding
1G1PU02	Shahgai - Jazz	50	25/06/19 12:00:00 AM	13/02/20 10:44:31 AM		Off	Online	0	Load Shedding
1G1PU03	Khona Cham - Jazz	40	21/12/17 05:00:00 AM	13/02/20 02:00:00 PM		Off	Online	0	Auto-Online
1G1PU04	Saidu Sharif (1)	50	12/02/19 11:28:33 AM	13/02/20 11:45:45 AM		Off	Online	0	Load Shedding
1G1PU05	SAIDU SHARIF No. 2 - Jazz	40	12/02/19 11:28:33 AM	13/02/20 11:50:46 AM		Off	Online	0	Load Shedding
1G1PU06	CANCER HOSPITAL NF	50	12/02/19 11:28:33 AM	11/02/20 04:48:32 PM	Offline	offline	Offline	0	Load Shedding
1G1PU07	MEDICAL COLLEGE - Telenor	50	12/02/19 11:28:33 AM	12/02/20 05:59:41 PM		Off	Online	0	Load Shedding
1G1PU08	SHNA KRAPA - Telenor	50	12/02/19 11:28:33 AM	13/02/20 07:00:00 AM		On	Online	0	Auto-Online
1G1PU09	AFSAR ABAD - Telenor	50	12/02/19 11:28:33 AM	13/02/20 01:37:52 PM		On	Online	0	Manual
1G1PU10	FAIZ ABAD No. 1 - NF	40	12/02/19 11:28:33 AM	14/01/20 12:52:44 PM	Offline	offline	Offline	0	Load Shedding

This page shows multiple information about the pump and also provide the facility of manual switching of pump directly from website. The switch pump button has two states:

 **Offline** it means the device has no communication with server. You can't switch on/off.

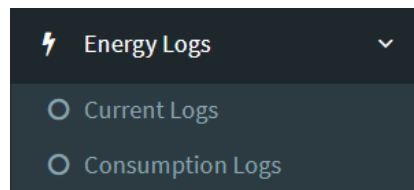
 **Off** It means the pump is currently switched on. By clicking this, pump will turn off.

 **On** It means the pump is currently switched off. By clicking this, pump will turn on.

## 9. Energy Logs

Energy logs is a button on sidebar which acts as a dropdown having two options:

- 9.1. Current Logs
- 9.2. Consumption Logs



### 9.1. Current Logs

By clicking current logs from the side bar, the following page is displayed:

**WSSC Mingora Swat**

Water & Sanitation Service Company  
Mingora Swat  
Powered by CISNR

Admin  
admin@gmail.com

MAIN NAVIGATION

- Dashboard
- Pump List
- Switching
- Energy Logs
- Current Logs
- Consumption Logs
- Reports
- Faults
- Users
- Logout

**Current Logs**

Select Pump:  From Date and Time:  To Date and Time:  Submit

Show 10 entries Search:

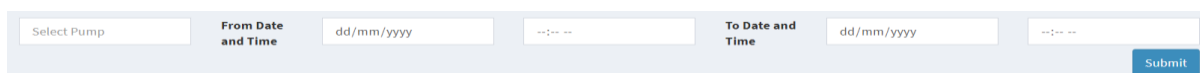
Pump ID	Name	Volt 1 (V)	Volt 2 (V)	Volt 3 (V)	Current 1 (Amps)	Current 2 (Amps)	Current 3 (Amps)	KVA 1	KVA 2	KVA 3	PF1	PF2	PF3	Date Time
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:51:30
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:50:29
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:49:28
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:48:28
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:47:26
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:46:26
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:45:24
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:44:24
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:43:23
1G1PU01	Akhun baba - Jazz	0	0	244	0	0	0	0	0	0	0.98	0.98	0.98	2020-02-10 14:42:21

Showing 1 to 10 of 4,000 entries

Download

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This page is showing the current logs of all the pumps. By default, this page shows last 4000 records from all pumps. User can also view logs of specific pump and within a specific time frame also. To view specific pumps logs, enter the pump id, date and time from and date and time to in the fields given on the top of the page and click submit button. The snip is also given below:



To download the data shown in the table, click the download button at the end of the page.

# Water Scada Website Tutorial

Show 10 entries Search:

From dropdown, you can select the no of records you want to see in table. In search bar, you can search records by data of any column present in the table.

## 9.2. Consumption Logs

By clicking consumption logs from the side bar, the following page is displayed:

WSSC Mingora Swat

Water & Sanitation Service Company  
Mingora-Swat  
Powered By CISNR

Admin  
admin@gmail.com

Consumption Logs

Select Pump From Date and Time dd/mm/yyyy To Date and Time dd/mm/yyyy Submit

Show 10 entries Search:

Pump ID	Name	Unit (Peak Time)	Unit (Off Peak Time)	Total	Date & Time
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:18:10
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:17:10
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:16:08
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:15:08
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:14:09
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:13:06
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:12:05
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:11:04
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:10:04
1G1PU01	Akhun baba - Jazz	100.4	294.26	394.66	2020-02-10 15:09:03


Showing 1 to 10 of 2,000 entries Previous 1 2 3 4 5 ... 200 Next

Download

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This page is showing the consumption logs of all the pumps. By default, this page shows last 2000 records from all pumps. User can also view logs of specific pump and within a specific time frame also. To view specific pumps logs, enter the pump id, date and time from and date and time to in the fields given on the top of the page and click submit button. The snip is also given below:

Select Pump From Date and Time dd/mm/yyyy To Date and Time dd/mm/yyyy Submit

To download the data shown in the table, click the download button  at the end of the page.

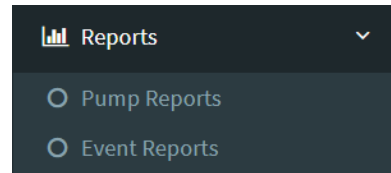
Show 10 entries Search:

From dropdown, you can select the no of records you want to see in table. In search bar, you can search records by data of any column present in the table.

## 10. Reports

Energy logs is a button on sidebar which acts dropdown having two options:

- 10.1. Pump Reports
- 10.2. Event Reports



### 10.1. Pump Reports

By clicking pump reports from the side bar, the following page is displayed:

This page is showing the pump reports of all the pumps. By default, this page shows last 1000 records from all pumps. User can also view logs of specific pump and within a specific time frame also. To view specific pumps logs, enter the pump id, date and time from and date and time to in the fields given on the top of the page and click submit button.

### 10.2. Pump Event Report

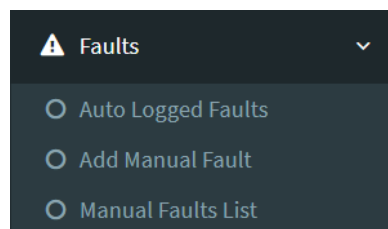
By clicking pump event report from the side bar, the following page is displayed:

This page is showing the pump event reports of all the pumps. By default, this page shows last 1000 records from all pumps. User can also view logs of specific pump and within a specific time frame also. To view specific pumps event reports, enter the pump id, date and time from and date and time to in the fields given on the top of the page and click submit button.

## 11. Faults

Fault is a button on sidebar which acts dropdown having three options:

- 11.1. Auto Logged Faults
- 11.2. Add Manual Fault
- 11.3. Manual Faults List



### 10.1. Auto Logged Faults

By clicking auto logged faults from the side bar, the following page is displayed:

Pump	Volt 1 (V)	Volt 2 (V)	Volt 3 (V)	Curr 1 (Amps)	Curr 2 (Amps)	Curr 3 (Amps)	Report Time	Type	Status	Resolve Time
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:15:53	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:23:37	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:23:37	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:27:21	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:28:10	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:31:48	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:32:53	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:37:18	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:39:11	Under Load	Resolved	2019-08-23 14:05:56
AFSAR ABAD - Telenor	205.71	205.3	204.4	49.19	48.13	52.72	2019-07-04 23:39:11	Under Load	Resolved	2019-08-23 14:05:56

This page is showing the auto logged faults of all the pumps. These are the faults which are logged automatically by the devices. By default, this page shows last 1000 fault records from all pumps. User can also view logs of specific pump and within a specific time frame also. To view specific pumps event reports, enter the pump id, date and time from and date and time to in the fields given on the top of the page and click submit button.

## 10.2. Add Manual Faults

By clicking add manual faults from the side bar, the following page is displayed:

The screenshot shows the 'Add Manual Faults' page. The header includes the WSSC Mingora Swat logo and navigation menu. The main content area contains a form with the following fields:

- Select Pump\***: A dropdown menu with the text 'Select Pump from List'.
- Fault Date Time\***: A date and time input field with the placeholder 'dd/mm/yyyy' and a time selection icon.
- Pump Fault\***: A text input field with the placeholder 'Describe Pump Fault'.
- Status\***: A dropdown menu with 'Pending' selected.
- Resolved by**: A text input field with the placeholder 'Enter the person who resolved the problem'.
- Resolve Date Time**: A date and time input field with the placeholder 'dd/mm/yyyy' and a time selection icon.
- Remarks**: A text input field with the placeholder 'Enter Remarks'.
- Supervised by**: A text input field with the placeholder 'Enter Supervisor Name'.

At the bottom of the form, there is a red 'Reset' button on the left and a blue 'Add Fault' button on the right. The footer contains the copyright notice: 'Copyright © 2018-2020 CISNR, UET Peshawar. All rights reserved.'

If the fault is not resolved yet, fill all required fields (fields with \*) and press add fault. You can add the remaining field by editing the fault report. If the fault has been resolved, fill all the fields and press submit.

## 10.3. Manual Fault List

By clicking manual faults list from the side bar, the following page is displayed:

The screenshot shows the 'Manual Fault List' page. The header includes the WSSC Mingora Swat logo and navigation menu. The main content area displays a table with the following data:

Fault No.	Pump ID	Pump Name	Fault Date & Time	Fault	Status	Resolved by	Resolve Date & Time	Remarks	Supervised by	Date & Time
1	1G1PU01	Akhun baba - Jazz	2020-01-08 02:00:00	FAULT	Pending					2020-01-21 10:17:07

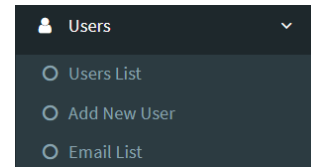
Below the table, there is a pagination control showing 'Showing 1 to 1 of 1 entries' and buttons for 'Previous', '1', and 'Next'. The footer contains the copyright notice: 'Copyright © 2018-2020 CISNR, UET Peshawar. All rights reserved.'

This page is showing list of all manually added faults.

## 11. Users

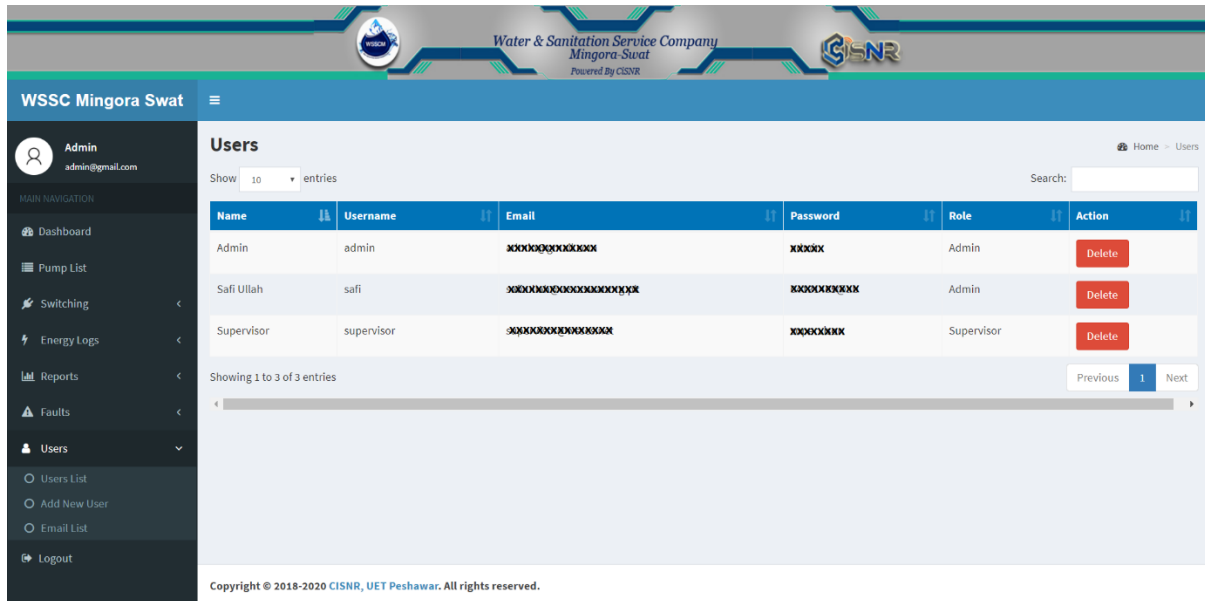
Fault is a button on sidebar which acts dropdown having three options

- 11.1. User List
- 11.2. Add New User
- 11.3. Email List



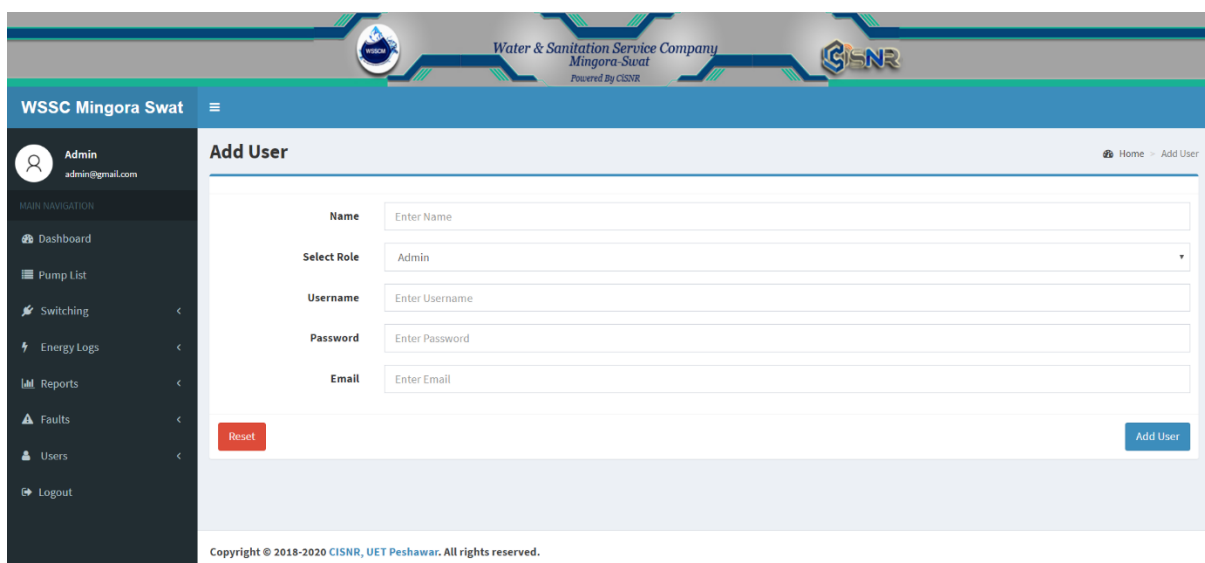
### 11.1. User List

By clicking user list, the following page is displayed. You can delete specific user by clicking delete.



### 11.2. Add New User

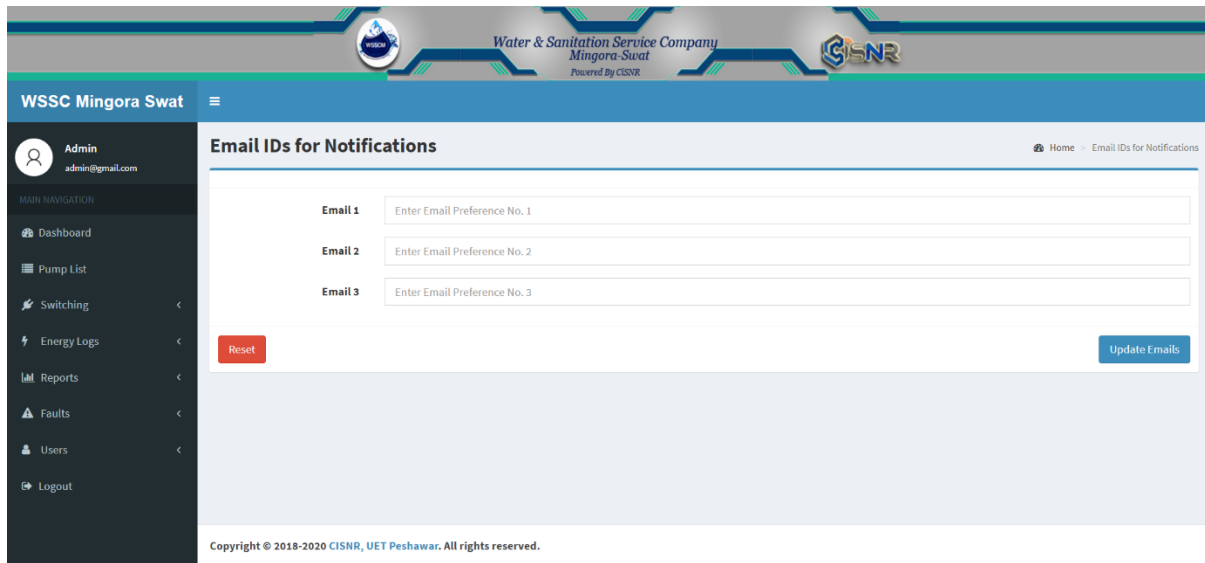
By clicking add new user, the following page is displayed:



Add all the fields available on page and press add user button.

### 11.3. Email IDs for Notifications

By clicking email list, the following page is displayed.



The system has option for 3 email IDs to get notification on. Add email IDs in the field given on page and add update emails so that users can receive emails of all faults in the system.

## 12. Logout

By clicking this button, your session gets expired and user is redirected to login page.



---END---