

## **Asset Management Web Configuration Panel**

# **Contents**

---

### **1: Getting started with the Web Configuration Panel**

About the Web Configuration Panel

Accessing the Web Configuration Panel

### **2: Using the Web Configuration Panel**

#### **2.1: Home**

#### **2.2: Finance**

- Tarif Rates
- Other Parameters
- Cash Book

#### **2.3: Maintenance**

- Component Categories
- Asset Components

#### **2.4: Service**

- Quality Test Parameter

#### **2.5: Notifications**

- Manage Notifications

**Change Language**

**Logout**

## About the Web Configuration Panel

The Web Configuration Panel enables you to add, edit and view general information, mobile app users, tariff rates about the water system. This also helps to configure and update different financial records, maintenance infos, service records etc. This web utility will guide you through the different tabs and sub-tabs including the notification tab.

## Accessing the Web Configuration Panel

You can access the Web Configuration Panel using any compatible browser installed on your PC. To log in the web configuration panel, you will need the authorised Username and Password.

## Web Application

When Water System's User login to the web application of Configuration Panel

### 2.1: Home

In the configuration panel's home tab, users can add General Information, Beneficiary details, supply belts, Supply Schedule, and Mobile App users of the Water System. Users can also see the tariff rates, based on User Based and Fixed Based.

The screenshot displays the 'Bankatuwa Water System' web application interface. The top header includes the system name, a location dropdown set to 'Banke', the date '1/2/2022', a currency dropdown set to 'Rupeeta', and a Nepalese flag icon. A left sidebar contains navigation links: Home (active), Finance, Maintenance, Service, and Notifications. The main content area is divided into several sections: 'General Information' (with fields for Scheme Name, Location, Water Source, System Built Date, and System Operational From), 'Mobile App users' (showing a user named 'bankatwa' with a phone number), 'Supply schedule' (listing times for SUN-MON, TUE-WED, and THU-SAT), and 'Tarrif Rates'. At the bottom, a horizontal menu lists 'Beneficiary', 'Beneficiary Households', 'Beneficiary Population', 'Public Taps', and 'Institution'.

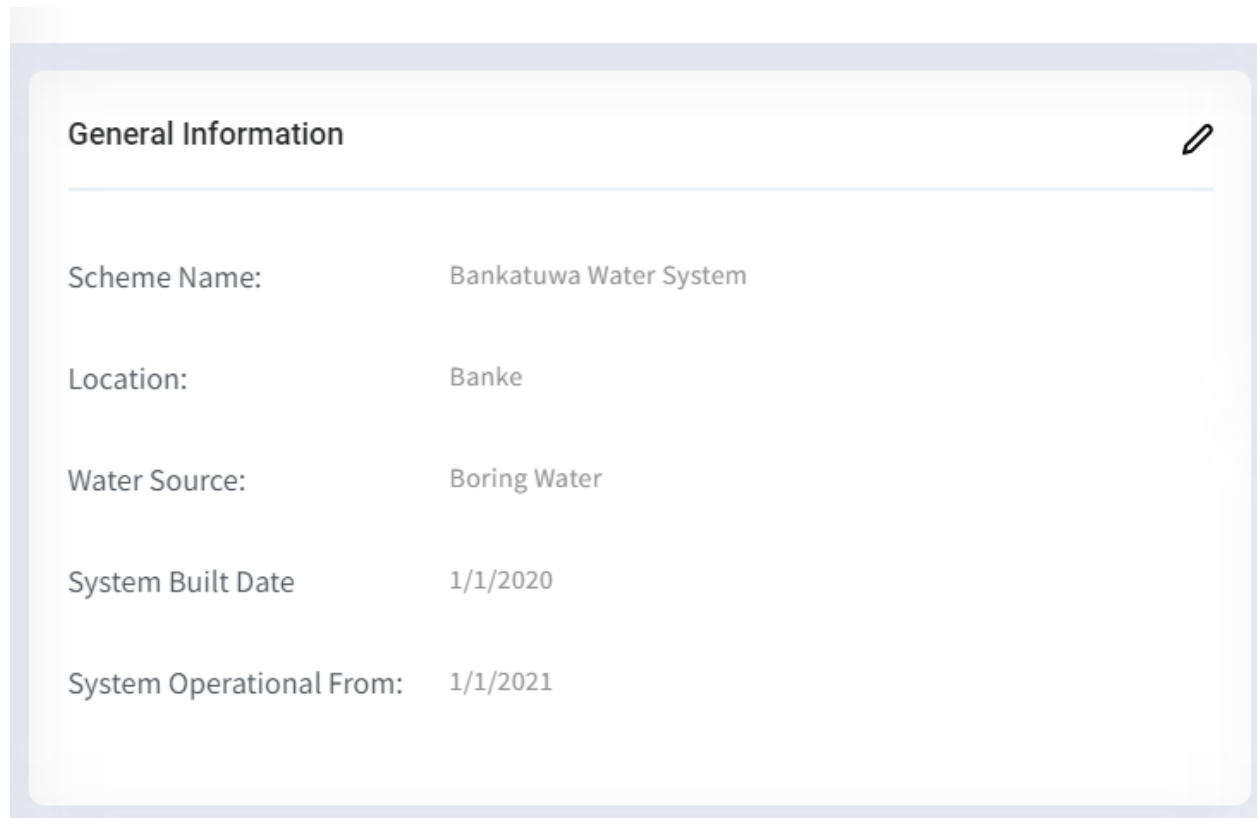
Beneficiary	Beneficiary Households	Beneficiary Population	Public Taps	Institution
-------------	------------------------	------------------------	-------------	-------------

### Add/Edit General Information

Users can add the General information of the Water Scheme by clicking on the edit icon placed in the right corner of the content.

Then a pop-up form is displayed where the following details have to be filled up:

- i. Scheme Name: Add the Name of the Water System
- ii. Location: Add the location & address of the Water System
- iii. Water Source: Add source of water e.g. Boring water, Spring water etc
- iv. System Built Date: Add Water System's built date
- v. System Operational Date : Add date from where the water system operated



The screenshot shows a light blue pop-up window titled 'General Information' with an edit icon in the top right corner. The form contains five fields, each with a label and a value:

Field Label	Value
Scheme Name:	Bankatuwa Water System
Location:	Banke
Water Source:	Boring Water
System Built Date	1/1/2020
System Operational From:	1/1/2021

### Add/Edit Mobile App Users

After adding General information, the User has to click on the Mobile App Users where a pop-up form will be displayed. In order to add the Mobile App Users, the following details have to be filled up:

- i. Name: Add the name of the mobile app user
- ii. Phone: Add phone number of the mobile App User
- iii. Username: Add username for the mobile app user
- iv. Password (PIN): Add a password which shouldn't be less than Four number digits.

- v. Confirm Password: Add the same password which was created previously for the confirmation
- vi. Save the added data by clicking on the Save Button

The screenshot shows the 'Bankatuwa Water System' mobile app interface. A modal window titled 'Add / Edit Mobile App users' is open, displaying a form with the following fields:

- Name:
- Phone:
- Username:
- Password (PIN):
- Confirm Password:

At the bottom right of the form are 'Save' and 'Cancel' buttons. Below the form is a table with the following data:

S.N	Name	Phone	Operations	Action
1	bankatwa	9841367057	Caretaker	

The bottom navigation bar includes tabs for: Beneficiary, Beneficiary Households, Beneficiary Population, Public Taps, Institution, and Tariff Rates.

### Add/ Edit Supply Schedule

In order to add and edit the supply schedule of the water system, the following details have to be filled up:

- i. Day: Add the day for the supply schedule ( eg: Sunday, Monday or Sun-Thur, etc)
- ii. Supply Belt: Supply Belt is not a required field so user can skip this field
- iii. Morning : Add water supply time for the morning
- iv. Evening: Add water supply time for the evening
- v. Save the added data by clicking on the Save Button

Bankatuwa  
Banke

Home  
Finance  
Maintain  
Service  
Notifica

### Add / Edit Supply schedule

Day

Supply Belt

Select...

Morning:

05:00 AM

06:00 AM

Evening:

05:00 PM

06:00 PM

Save

Cancel

S.N	Day	Supply Belt	Morning	Evening	Action
1	Sun-Mon	-	05:00:00 - 08:00:00	04:00:00 - 08:00:00	
2	Tue-wed	-	06:00:00 - 08:00:00	04:00:00 - 08:00:00	
3	Thu-Sat	-	06:00:00 - 07:00:00	04:00:00 - 07:00:00	

### Add/Edit Beneficiary Information

In order to add and edit Beneficiary Information of the Water System, the following details have to be filled in:

- Beneficiary Households: Add the number of the beneficiary households number (eg: 250 Houses)
- Institutional Connection: Add the number of the institutional connections ( eg: 20 Schools)
- Apply Date: There will be a by default apply date as per the Water System.
- Beneficiary Population: Add the total number of the beneficiary population (eg: 3000)
- Public Taps: Add the total number of the Public Taps
- Save the added data by clicking on the Save Button



## 2.2 Finance

In the Finance tab, there are mainly three sub-menus. Tariff Rates, Other Parameters and Cash Book. In order to add these, the following details have to be filled up:

### Add/Edit Tariff Rates

In order to add **Fixed Based** Tariff Rates, the following details have to be filled up:

- Apply date: There will be a by default apply date as per the Water System.
- Rate for Households(Rs): Add the water tariff rate for the households connection
- Rate for institutions(Rs): Add the water tariff rate for the institutional connection
- Estimated paying connection Households (%): Add the estimated paying connection Households in % (eg: 40%)
- Estimated paying connection Institution(%): Add the estimated paying connection Institution in % (eg: 60%)
- Save the added data by clicking on the Save Button

Bankatuwa Water System

Banke

Home

Finance

Tariff Rates

Other Parameters

Cash Book

Maintainance

Service

Notifications

Tariff Rates

Fixed rate

Apply Date

2020-03-01





Rate for households (Rs )

Rate for institution (Rs )

Estimated Paying Connection Households (%)

Estimated Paying Connection Institution (%)

Save

S.N	Apply Date	Rate for households (Rs )	Rate for institution (Rs )	Estimated Paying Connection Households (%)	Estimated Paying Connection Institution (%)	Action
1	2020-03-01	Rs. 450   Units	Rs. 550   Unit	40 %	40 %	 
2	2025-03-03	Rs. 450   Units	Rs. 550   Unit	40 %	40 %	 

### Income Estimates -This year & All Time

User can view the graph and other short information regarding tariff rates in the income estimates for the water system's current year and also including other years as well.

### Other Parameters

In order to add Other Parameters, the following details have to be filled up

- Apply Date: Add the apply date by selecting through the calendar as there will be no by default apply date
- Expense Heading: Add the expense heading
- Yearly Expenditure: Add the yearly expenditure

- iv. Category: Select one of the categories, either income or expenditure
- v. Apply for specific date: Add “yes” or “No” for the specific date
- vi. One Time Cost: Add “yes” or “No” for the one time cost for the other parameters

**Bankatuwa Water System**  
 Banke

1/2/2022 Rupeeta

Home  
 Finance  
 Tariff Rates  
**Other Parameters**  
 Cash Book  
 Maintenance  
 Service  
 Notifications

**Other Parameters**

Apply Date :

Expense Heading :

Yearly Expenditure :

Category :  
 Select...

Apply for specific date :  
☒ Yes ☐ No

One Time Cost :  
☒ Yes ☐ No

S.N	Category	Expense Heading	Yearly Expenditure	Action
1	Expenditure	Other Expenses	Rs. 50000	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

**Inflation (%) Parameters**

Inflation (%) :

Disallow app edit after month closing :  
 Select...

S.N	Inflation (%)	Edit State	Action
1	6	Allow	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

### Add Inflation (%) Parameters

In order to add inflation parameters, the following details have to be filled up

- i. Inflation(%) : Add the inflation rate
- ii. Disallow app edit after month closing: Select Yes or No for the app for month closing after edit
- iii. Save the added data by clicking on the Save Button



1/2/2022

Rupeeta



Inflation (%) Parameters

Inflation (%) :

Disallow app edit after month closing :

Select...

Save

S.N	Inflation (%)	Edit State	Action
1	6	Allow	 

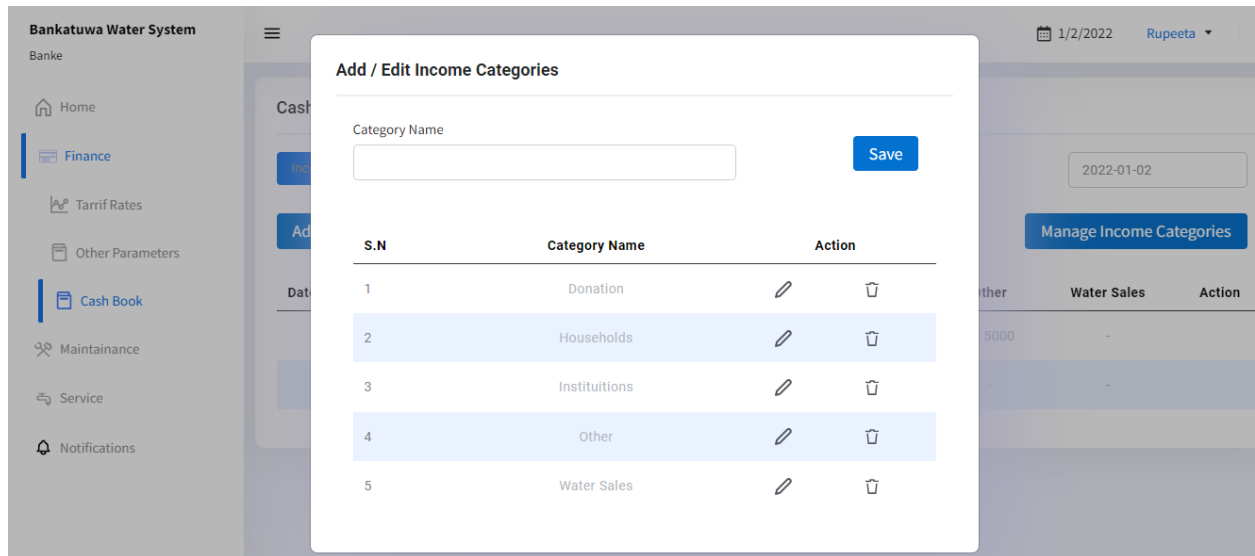
## Cash Book

In the cash book tab, there are mainly two sections. They are Income and Expenditure. There is also a date filter in the corner of the tab, where the user can select the date as per the date requirement in order to see income and expenses records for the given years.

## Manage Income Categories

In order to add income categories, the following details have to be filled up:

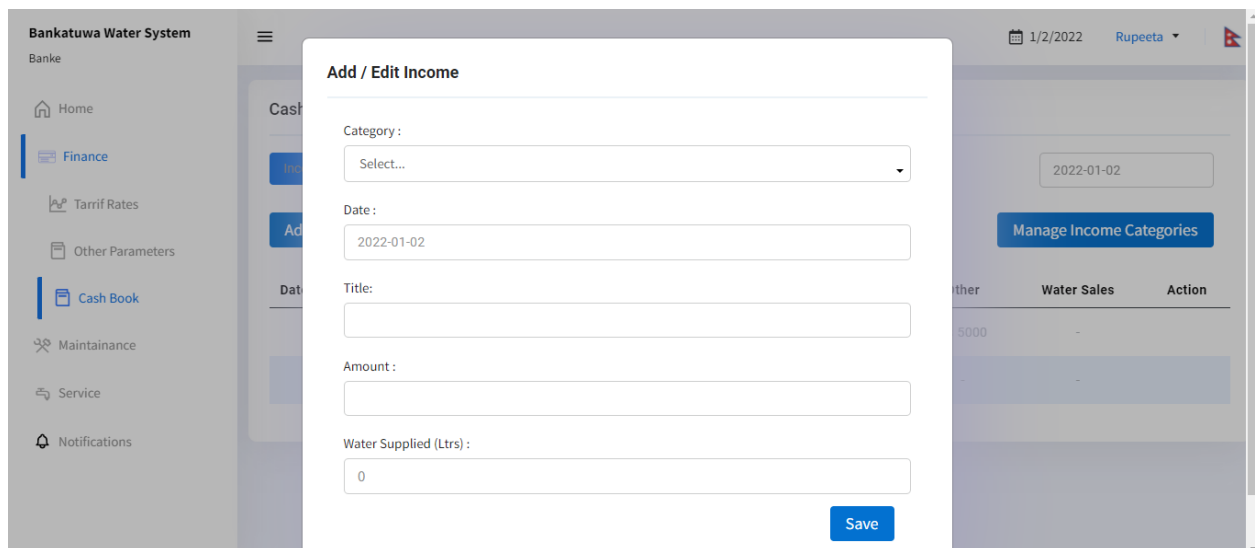
- Category Name: Add a category name for the Income
- Save the added data by clicking on the Save Button



## Manage Expenditure Categories

In order to add expenditure categories, the following details have to be filled up:

- Category Name: Add a category name for the Expenditure
- Save the added data by clicking on the Save Button



## Add/Edit Income

In order to add the income, the following details have to be filled up:

- Category: Select category from the given income category lists
- Date: By default, there will be a date for the income as the date has already been selected by the user
- Title: Add the income title
- Amount: Add the income amount

- iv. Water Supplied (Ltrs): Add the total water supplied for the month in Liters
- v. Save the added data by clicking on the Save Button

The screenshot shows the 'Bankatuwa Water System' interface. On the left is a sidebar with navigation links: Home, Finance (selected), Tariff Rates, Other Parameters, Cash Book, Maintenance, Service, and Notifications. The main area displays the 'Add / Edit Expense' form. The form has the following fields: 'Category' (a dropdown menu with 'Select...' as the placeholder), 'Date' (a text box containing '2022-01-02'), 'Title' (a text box), 'Amount' (a text box), and 'Remarks' (a text box). A blue 'Save' button is located at the bottom right of the form. In the background, a table titled 'Manage Expenditure Categories' is visible, showing a table with columns 'Regular Maintenance' and 'Action', and a row with a minus sign '-'.

### Add/Edit Expenditure

In order to add the expenditure, the following details have to be filled up:

- i. Category: Select category from the given expenditure category lists
- ii. Date: By default, there will be a date for the expenditure as the date has already been selected by the user
- iii. Title: Add the expenditure title
- iv. Amount: Add the income amount
- lv. Water Supplied (Ltrs): Add the total water supplied for the month in Liters
- v. Save the added data by clicking on the Save Button

This is an identical screenshot to the one above, showing the 'Bankatuwa Water System' interface with the 'Add / Edit Expense' form. The form fields are: 'Category' (dropdown), 'Date' (text box with '2022-01-02'), 'Title' (text box), 'Amount' (text box), and 'Remarks' (text box). A blue 'Save' button is at the bottom right. The background table 'Manage Expenditure Categories' is also visible.

## 2.3 Maintenance

In the Maintenance tab, there are mainly three sub-tabs. They are **Component Categories**, **Asset Components** and **Components Logs**. In order to add the multiple data regarding this, the following details have to be filled up:

### Add/Edit Component Categories

In order to add the Component Categories, the following details have to be filled up:

- Title: Add the title of the component category
- Save the added data by clicking on the Save Button.

Component

Category:

Select...

Name :

Save

S.N	Category	Component
1	Main component	Dome tank surface-parts (inside and outside su
2	Main component	Metal structure( main part )
3	Main component	Metal structure (sub part)

Component Categories

Title :

Main Component

Save

S.N	Category Name	Action
1	Main component	
2	Meter and transformer	
3	Supply of HDP Pipe	
4	CI/HDP Flange set	

### Add/ Edit Component

In order to add the component, the following details have to be filled up:

- Category: Select category from the given Component category lists
- Name: Add the component name
- Save the added data by clicking on the Save Button.

1/2/2022

Rupeeta

Component

Category:

Select...

Name :

Save

Component Categories

Title :

Main Component

Save

S.N	Category	Component
1	Main component	Dome tank surface-parts (inside and outside su
2	Main component	Metal structure( main part )
3	Main component	Metal structure (sub part)

S.N	Category Name	Action
1	Main component	
2	Meter and transformer	
3	Supply of HDP Pipe	
4	CI/HDP Flange set	

## Asset Components

In order to add the information regarding asset components, the following details have to be filled in:

### Add/Edit Component Info

In order to add component info, the following details have to be filled up:

- Component Category: Select the component category from the component lists
- Component Number: Add the component number
- Possible failure: Add the possible failure of the component category
- Maintenance action: Add the maintenance action required for the component category
- Maintenance Interval: Add the maintenance interval of the component in the year
- Maintenance cost: Add total maintenance cost without any segregation
- Labour cost : Add the labour cost (if there is segregation of the cost)
- Material Cost: Add the material cost (if there is segregation of the cost)
- Replacement Cost: Add the replacement cost (if there is segregation of the cost)
- Supply Belt: User can skip the supply belt
- Possibility of Failure: Select one of the possibility of failure from the given list
- Impact of Failure: Select one of the impact of failure from the given lists
- Mitigation: Select one of the mitigation from the given lists
- Designated Person: Select one of the designated persons from the given list
- Apply Date: There will be a by default apply date as per the Water System.
- Next Action date: There will be a by default apply date and if the user wants to change the date,he can add the next action date.
- Component picture: Add the component picture which should be less than 1Mb
- Save the added data by clicking on the Save Button.

---

### Add/Edit Component Info

---

Component Category:	Component Number:	Possible Failure:
<input type="text" value="Select..."/>	<input type="text"/>	<input type="text"/>
Maintainance Action:	Maintainance Interval:	मर्मत लागत दृश्य (Rs.):
<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>
Labour Cost (Rs.):	Material Cost (Rs.):	Replacement Cost (Rs.):
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Supply Belt :	Possibility Of Failure :	Impact Of Failure:
<input type="text" value="Select..."/>	<input type="text" value="Select..."/>	<input type="text" value="Select..."/>
Mitigation:	Designated Person:	Apply Date:
<input type="text" value="Select..."/>	<input type="text" value="Select..."/>	<input type="text" value="2020-03-01"/>
Next Action Date:	Component Picture:	
<input type="text" value="2021-03-01"/>	<input type="button" value="Choose File"/> No file chosen	

---

### Add/ Edit Components Logs

In order to add the component logs, the following details have to be filled up:

- Component: Select the component category from the given lists
- Maintenance date: Add the maintenance date for the component category
- Possible failure: Add the possible failure of the component
- Duration: Add the duration of the component in order add the log (interval in days)
- Total Cost: Add the total cost of the component (without any segregation cost)
- Labor cost: Add the labor cost (if there is segregation of the cost)
- Material Cost: Add the material cost (if there is segregation of the cost)
- Replacement Cost: Add the replacement cost (if there is segregation of the cost)
- Remarks: Add the remarks for the component
- Component Picture: Add the component picture which should be less than 1Mb
- Save the added data by clicking on the Save Button.

Bankatuwa Water System

Banke

Tariff Rates

Other Parameters

Cash Book

Maintenance

Component Categories

Asset Components

Component Logs

Service

Notifications

1/2/2022

Rupeeta

Component Logs

Component :

Select...

Maintenance date :

Possible Failure :

Maintenance Action :

Duration

Total Cost:

0

labor Cost :

0

Material Cost :

0

Replacement Cost :

0

Remarks :

Component Picture:

Choose File

No file chosen

Save

https://assetmanagementsystem.netlify.app/#/auth/component-logs

Component

Maintenance date

Duration

Total Cost

Action

## 2.4 Service

In the service tab, there is only one other sub-tab which is Quality Test Parameters.

### Add Quality Test Parameter

In order to add the Quality Test Parameter, the following details have to be filled up:

- Parameter: Add the parameter name for the water quality test
- Unit: Add the unit of the quality test parameter
- NDWQ Standard: Add the Given NDWQ Standard for the water quality test parameter
- Types: Select the types, either chemical or other from the lists.
- Save the added data by clicking on the Save Button.

Bankatuwa Water System

Banke

Cash Book

Maintenance

Component Categories

Asset Components

Component Logs

Service

Quality Test Parameters

Notifications

1/2/2022

Rupeeta

Quality Test Parameters

Parameter:

Unit:

NDWQ Standard:

Types:

Select...

Save

S.N	Parameter	Units	NDWQ Standard	Action
1	Turbidity	NTU	5	
2	Aluminium	mg/l	0.2	
3	Zinc	mg/l	3	
4	Copper	mg/l	1.0	
5	Sulphate	mg/l	250	

## 2.5 Notifications

In the notification tab, there is a sub-tab named manage notifications.

### Manage Notifications

In order to manage notifications, the following details have to be filled up:

- i. Initial date: Add the initial date for the notifications
- ii. Income notifications period: Add the income notifications period in days
- iii. Expenditure notifications period: Add the expenditure notifications periods in days.
- iv. Test result notifications period: Add the test result notifications periods in days.
- v. Supply record notifications period: Add the supply record notifications periods in days.
- vi. Save the added data by clicking on the Save Button.

The screenshot displays the 'Manage Notifications' interface within the 'Bankatuwa Water System'. The left sidebar contains a list of navigation items: 'Other Parameters', 'Cash Book', 'Maintenance', 'Component Categories', 'Asset Components', 'Component Logs', 'Service', 'Notifications', and 'Manage Notifications'. The 'Manage Notifications' section is currently active. The main content area features a form with the following fields: 'Initial Date' (2021-10-03), 'Income notifications period' (30), 'Expenditure notifications period' (30), 'Test Result notifications period' (30), and 'Supply Record notifications period' (30). A 'Save' button is positioned at the bottom right of the form. The top right of the interface shows the date '1/2/2022', the language 'Rupeeta', and a flag icon. The URL at the bottom of the browser window is 'https://assetmanagementsystem.netlify.app/#/auth/update-notification'.

### Change Language

There is the availability of two languages: English and Nepali in the configuration web utility. Users can select the language by:

- Click on the top of the right corner where there is an Icon of Flag in the configuration panel

### Logout

Users can logout from the web configuration by:

- Click on the name of the User placed on the right side of the panel near the language selection and click on the Logout displayed text.



