



# **Ministry of Water Resources**

Govt. of the People's Republic of Bangladesh

## **User Manual**

On

**Knowledge Repository**

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## 1.1 Overview

The Ministry of Water Resources is the highest authority in Bangladesh's water sector. It is responsible for drafting all laws, rules, and regulations pertaining to the water sector, as well as regulating and controlling the organizations that report to it. The Ministry of Water Resources and Environment plans and executes development projects for things like flood control and drainage (FCD), flood control, drainage, and irrigation (FCDI), riverbank erosion control, delta development, and land reclamation, and so on. It also builds things like barrages, regulators, sluices, canals, cross-dams, embankments, and sea-dykes along riverbanks to provide irrigation, drainage, flood protection, bank erosion protection, and land reclamation facilities. The ministry may need to monitor water sector operations in a more flexible fashion before designing and executing the development programs, and so it requires a comprehensive database as a single knowledge repository where all key agencies would publish the water related information. Higher-level ministry and agency officials, planners, decision-makers, researchers, and cabinet members could all have a stake in the information repository. The major purpose of building such a platform is to aggregate information related to Bangladesh's water industry in one convenient location.

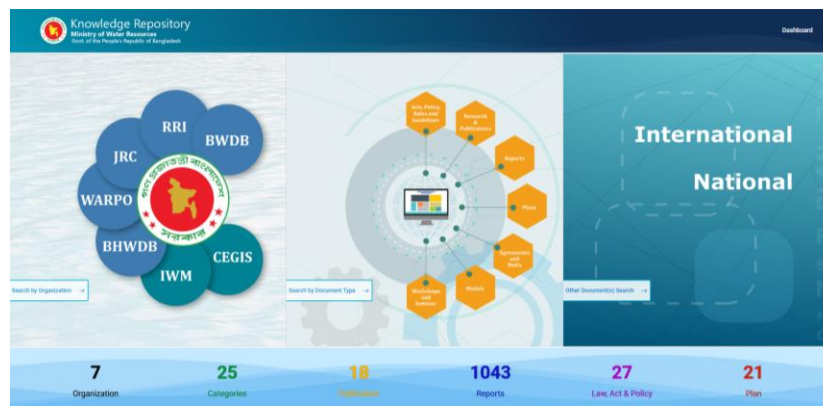


Figure 1 Home page of the MOWR Knowledge repository

## 1.2 Homepage

Homepage displays all the important information in form of numbers about the MoWR Knowledge repository. It contains important links to view different features and panels of this web application. Moreover, the user can find the three types of searching feature page and dashboard link from this page. By this page users can easily access all the features of Knowledge Repository by just clicking the displayed links.

To view the homepage of the MoWR knowledge repository please visit the following link: <http://202.53.173.185:8000>. It contains the navigation bar at the top and then the slider with three sections, which indicates three important searching parameters they are:

- Search by Organization
- Search by Document
- Search Other Documents

To find a document from the Ministry of Water Resource associated organizations Click on the **Search by Organization**. The user can filter any document based on keyword or from common categories by using this module. Sometimes it is convenient to find a document by a keyword to

title by using **Search by Document** module it is also possible. Moreover, for searching other documents like international or national information users can use **Search Other Documents** module.

In the top of the footer, section there is a panel for displaying useful information about Knowledge Repository. Finally, at the end of the page there is a footer with links of homepage of all the available organizations of Knowledge Repository. By clicking any of the organization logo, users will be redirected to the desired organization homepage.

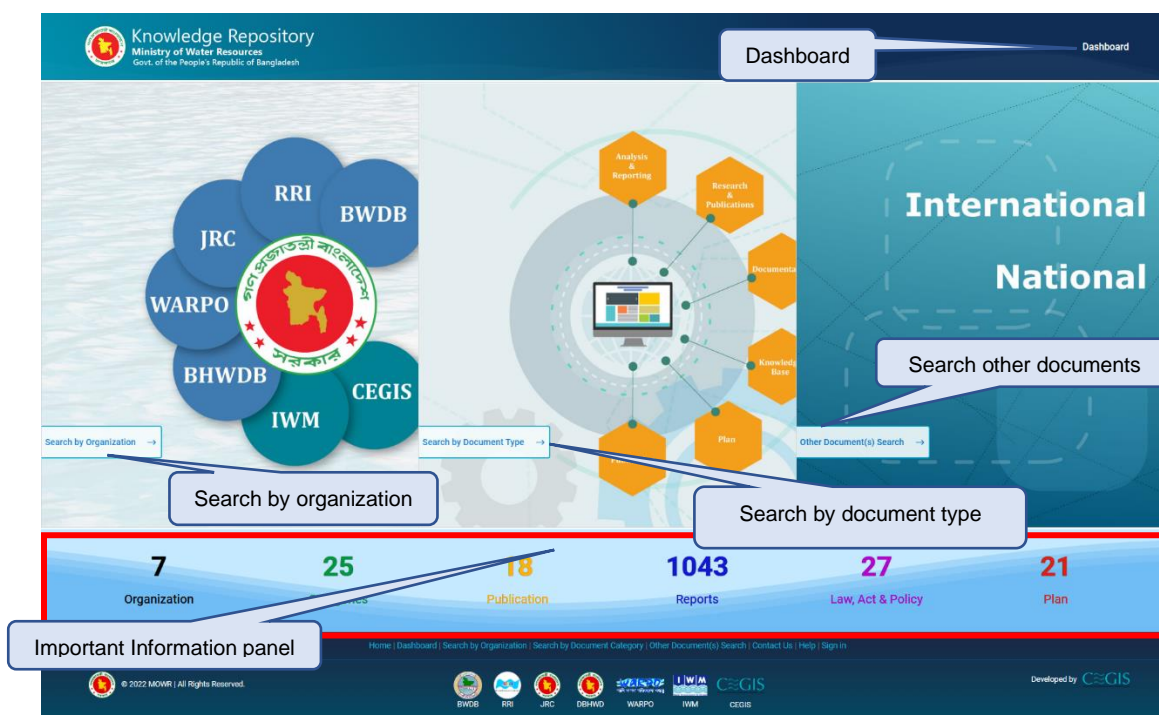


Figure 2 Home page of MoWR Knowledge Repository

### 1.3 Dashboard

Dashboard contains overall information of all the documents based on organization and document's category. A user can easily view any documents related to a specific organization by just clicking on the organization icon. However, the users can also view any document of a particular category by clicking on the category link. So, the Ministry or relevant organizations can only browse their organizational document or document by category from the Dashboard page.

After coming to the Dashboard page, three sections will be visible in the webpage. The first section is **Important Information panel** where different vital information related to MoWR Knowledge Repository would be visible. After that, they would be an **Organization Information** panel, where the number of documents available for each organization would be visible with all documents viewing capability. As soon as the user hits any of the displayed logo, they would redirect to the new page containing information about the documents of the respective organization. However, to visualize a categorical document for example report type documents just click on the Reports link from the Type of Documents section. Then after the application would redirect the user to the page with all report type documents. By clicking the **Important Links** user can view National and International relevant portals.



Figure 3 Dashboard Page

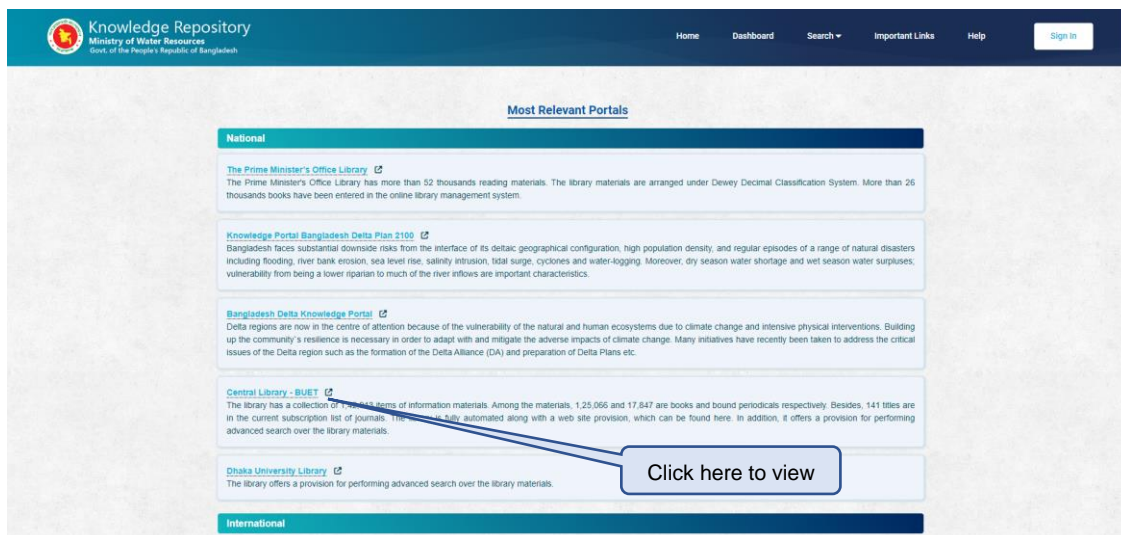


Figure 4 Important links

To help the user in case they are confused about any section there is link for user guide. By clicking the help, link user can be redirected to the user guideline pdf file. By going through the desired section, the user would understand all the necessary concepts and feature of this knowledge platform conveniently.

## Overview of Knowledge Repository

### 1.1 Overview

The Ministry of Water Resources is the highest authority in Bangladesh's water sector. It is responsible for drafting all laws, rules, and regulations pertaining to the water sector, as well as regulating and controlling the organizations that report to it. The Ministry of Water Resources and Environment plans and executes development projects for things like flood control and drainage (FCD), flood control, drainage, and irrigation (FCDI), riverbank erosion control, delta development, and land reclamation, and so on. It also builds things like barrages, regulators, sluices, canals, cross-dams, embankments, and sea-dykes along riverbanks to provide irrigation, drainage, flood protection, bank erosion protection, and land reclamation facilities. The ministry may need to monitor water sector operations in a more flexible fashion before designing and executing the development programs, and so it requires a comprehensive database as a single knowledge repository where all key agencies would publish the water related information. Higher-level ministry and agency officials, planners, decision-makers, researchers, and cabinet members could all have a stake in the information repository.

### 1.2 Objectives

The major purpose of building such a platform is to aggregate information related to Bangladesh's water industry in one convenient location. The explicit goals of building such repository is given below:

- To build an online platform with a custom database and a GIS interface for the water sector's knowledge repository
- To make it easy for users to insert, modify, upload, and search for data from the repository
- To build a reporting module that allows a user to view data and export it in excel/pdf formats.
- To provide system support and maintenance services
- To create a user manual and teach the selected users on how to use the system.



Figure 1.1 Home page of the MOWR Knowledge repository

## Figure 5 User Guideline Section

### 1.4 Document Search and Download

There are a lot of documents from different organizations which are available to public and some restricted documents for a few privileged users. Its difficult for an individual to search any particular document from the huge collections. To create convenience the knowledge repository has the capability to search by organization, document type etc. This feature helps the users to find their desired document by just typing a few keywords.

The access of MOWR knowledge repository is available to the different level of users based on the document type, organization and documents access levels. There are four access categories currently available in the system. Among them, limited, private and restricted documents are only

available to restricted users based on their access to these documents. However, besides it rests of the documents are available to public.

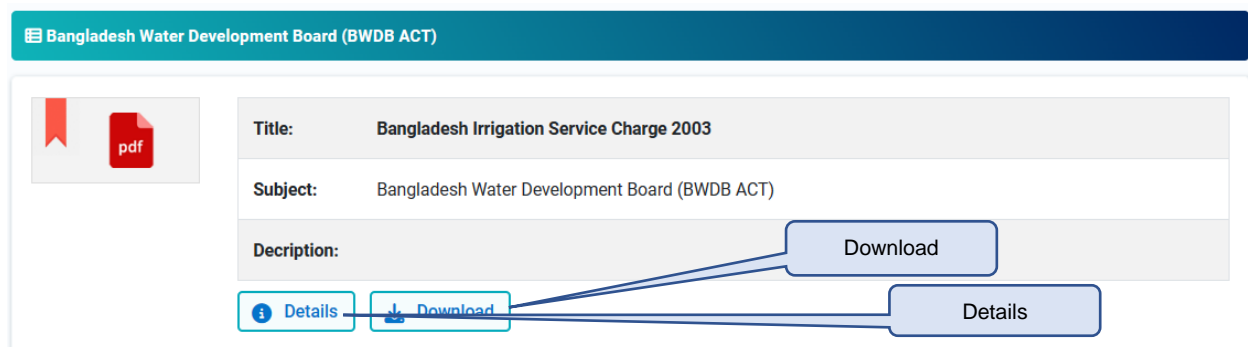
To make the use of knowledge repository, so that the users can make more effective searches and find their desired documents easily. The search is primarily based on document type, document responsible organizations, region level, important keywords etc. If the user enables a filter, it will then be applied to whole search result. So far, we have learnt that there are three types of customized search options available in the system. We will now see how each of these modules are working together to make the Knowledge repository effective.

- Search by Organization
- Search by Document type
- Search by Other Organization

There are several Common Categories available in the knowledge portal for search the document based on its type.

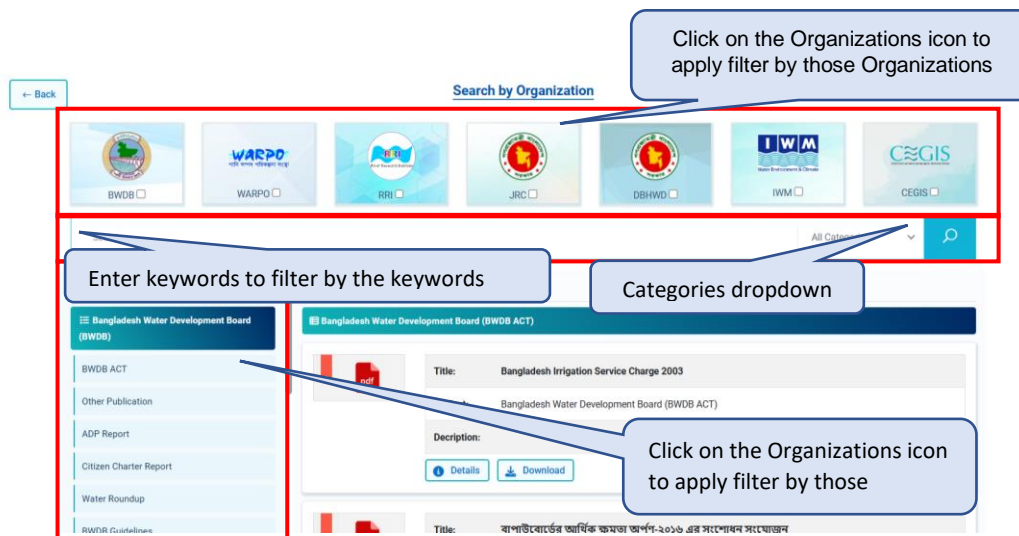
- Acts, Policy, Rules and Guidelines
- Research & Publications
- Reports
- Plans
- Agreements and MoUs
- Models
- Workshops and Seminars

To find among any the mentioned specific categories please click on the any of above common category items. Later the information under that category would be visible in the system to view or download.



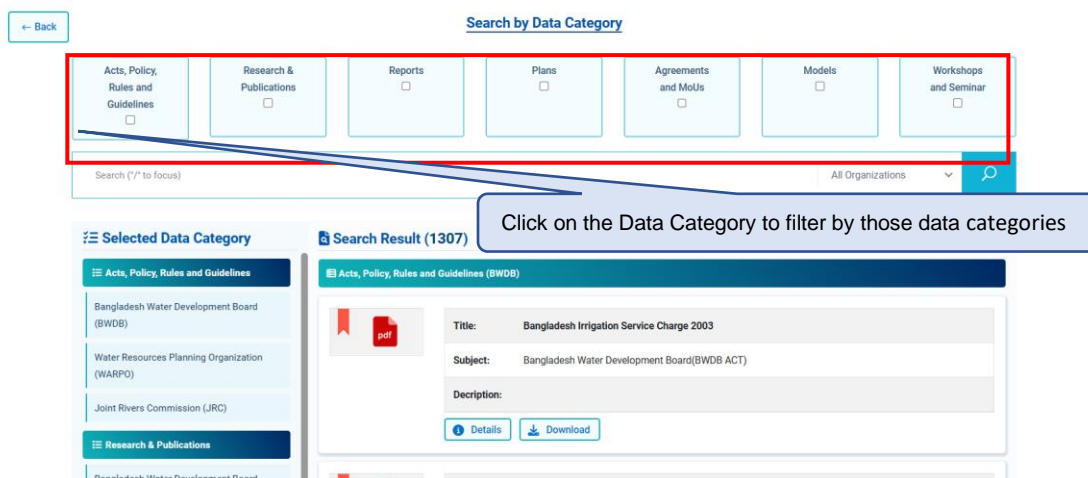
**Figure 6 Individual Document Specific information**





**Figure 7 Search by Organization**

Now to Search among all documents first select the Organizations in which to apply the filter. This can be achieved by clicking the desired organizations logo icon. If no organizations are selected then filter is applied on all the organizations. After that user can go to specific categories by clicking on the organization specific categories on the left side panel.



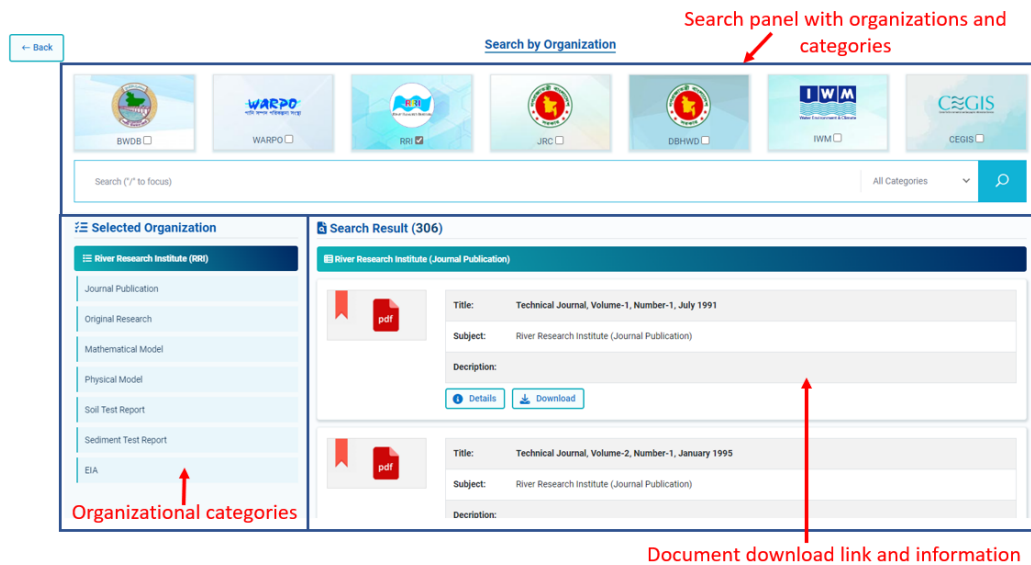


Figure 9 Document Search Module

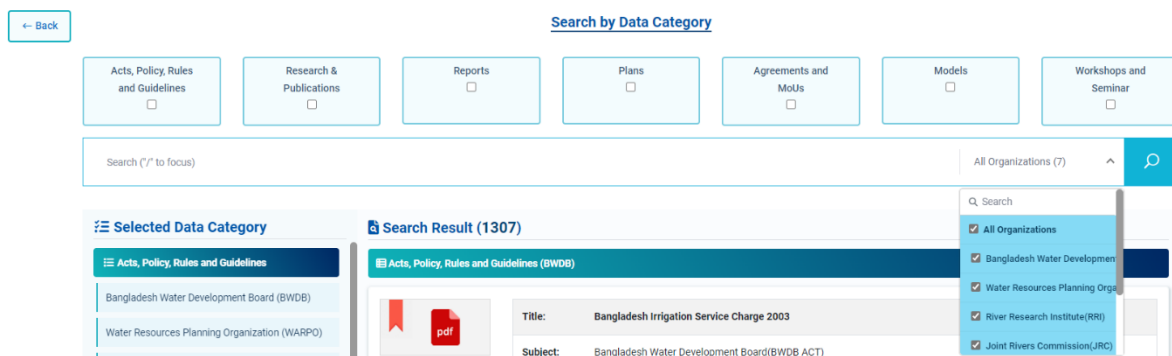


Figure 10 Filter by organization while searching by data category

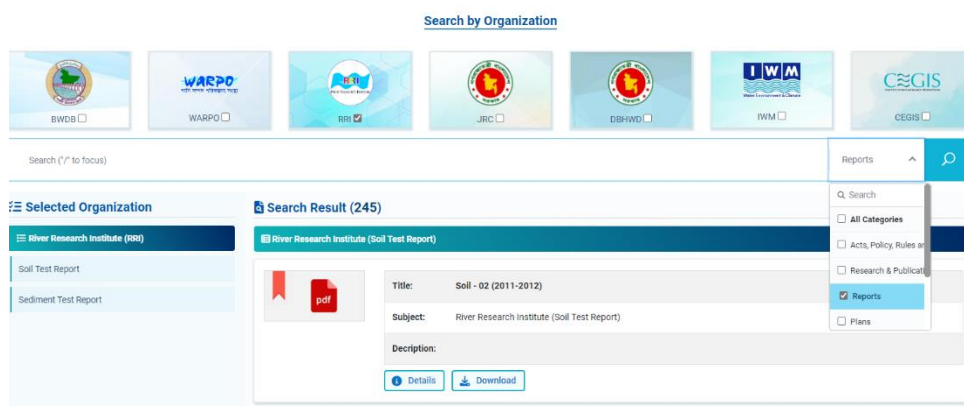
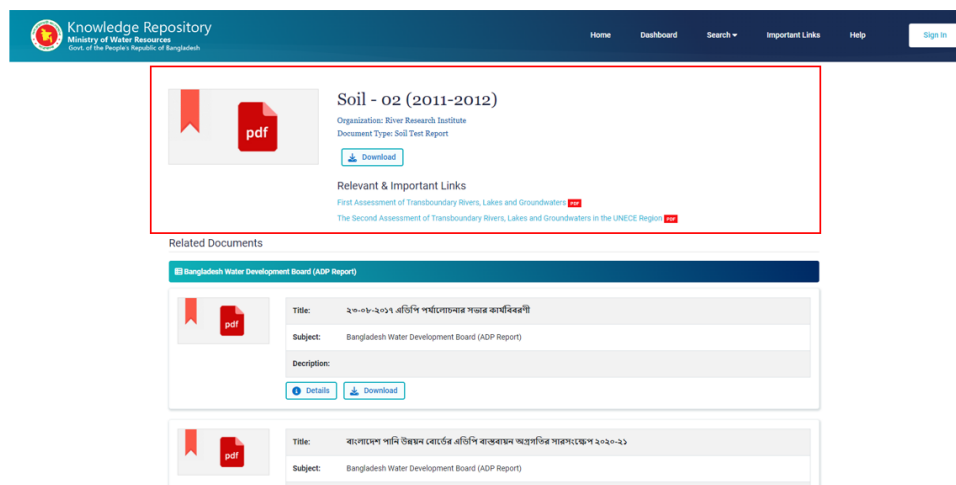


Figure 11 Search by Common Categories

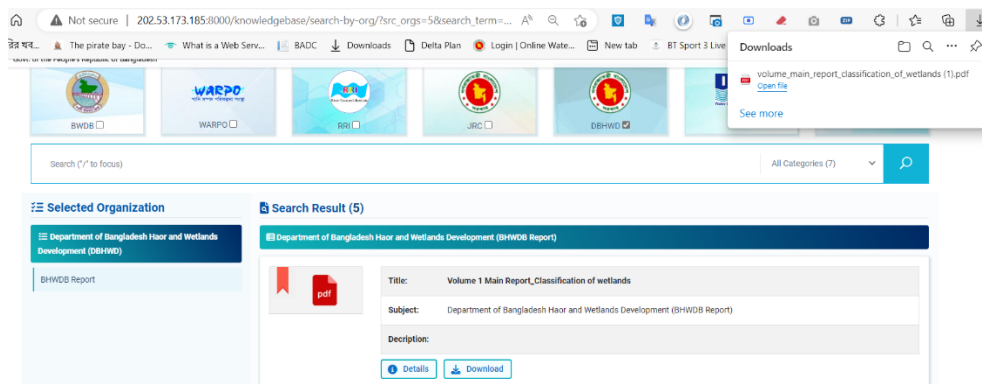


**Figure 12 Search by Organization from specific categories**



**Figure 13 Display document's details information**

To download a specific file please click on the Download link on the bottom part of the section.



**Figure 14 File Download**