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Operational Guidelines

Trail Bridge Strategy Information System (TBSIS)

Trail Bridge Support Unit/Helvetas Nepal



Trail Bridge Support Unit, TBSU



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Background

Trail Bridge Strategy Information System (TBSIS) is a quality monitoring tool developed to rectify or monitor the performance of each individual bridge. The system was a desktop based offline system till 2022 that requires several server computers at different points where the data are monitored and inspected and are entered into the system. The entered data are collected from all the points or regional offices and are there after compiled centrally. But, in 2023 the system was developed to an online system where several of the data are entered and compiled in real time.

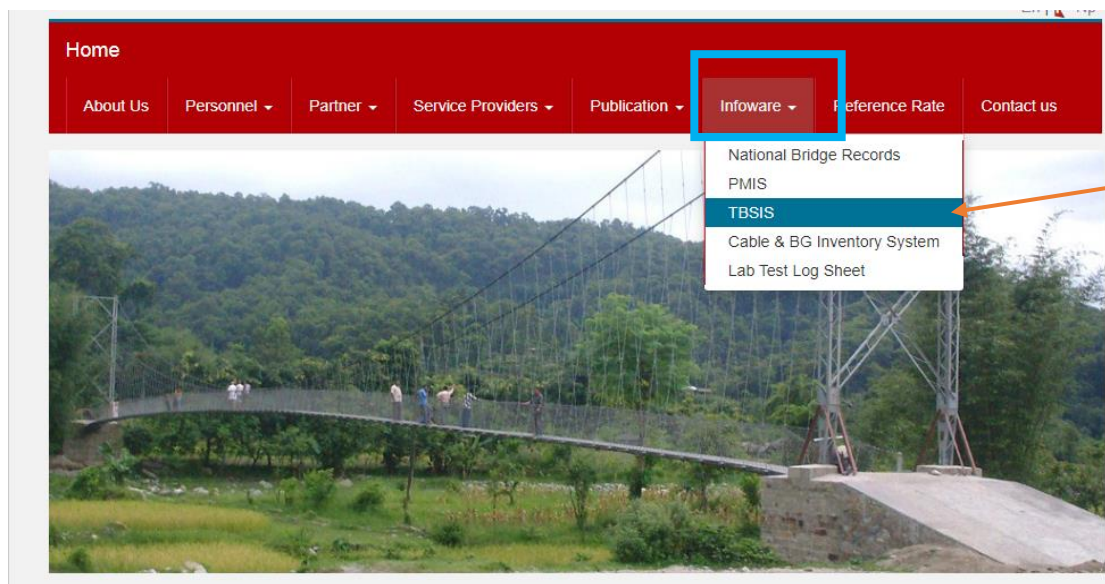
The system monitors the enforcement of trail bridge strategy during the construction of Trail Bridges. It is used for social inclusion, employment generation, transparency etc. of the bridges.

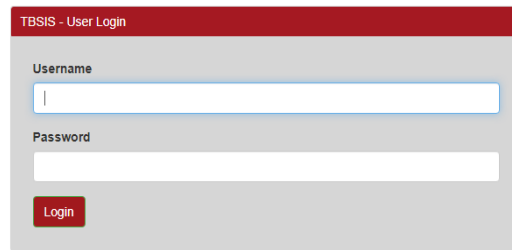
URL and LOGIN

The direct URL of TBSU TBSIS system is <http://tbsis.helvetas.org.np> . The site can also be visited through the main site of TBSU i.e. <http://nepaltrailbridges.org.np>.

Steps:

1. Visit the main site i.e. <http://nepaltrailbridges.org.np>.
2. Click on the infoware menu.
3. Click on TBSIS
4. Login with provided or authenticated username and password.



The image shows a login form titled "TBSIS - User Login". It has a red header bar. Below the header, there are two input fields: "Username" and "Password". The "Username" field has a blue border and a cursor. The "Password" field is a simple white box. Below these fields is a red "Login" button.

For Guest users,

- Username: guestuser@guestuser.com
- Password: guestuser

Types of Users

Here, the system can be accessed by basically three types of users: one with admin access, the second one with editorial access and third one with guest access. Users with **admin access** can view, add, edit, and modify all the cluster data and view all cluster reports in real time.

Similarly, users with **editorial access** can view, edit, and add respective clusters data and reports only. And user with **guest access** can only view respective cluster data and reports.

Dashboard and Menus

After login, dashboard will appear as shown in the image below. Dashboard All bridges where one can add and view the list of bridges, Reports where one can view reports and the third unseen menu is for Admin i.e. Setting where admin can change different permission, grant access, add edit province, municipalities, districts, supporting agencies etc.



Trail Bridge Strategy Information System

List of Menus

1. All Bridges
2. Reports
3. Settings

1. **All Bridges:** Clicking on this button will generate the image below where user can view the total list of bridges, can search individual bridges, and add bridges filling different milestones as mentioned below. Saved information of the bridge can be re-edited or updated later when needed by clicking on the edit button on the right side of the individual bridge list as shown below.

Adding information

For editing bridge information

The screenshot shows the 'All Bridges' interface. On the left, there is a sidebar with a 'Utilities' button and an 'Add Bridge' button. Below these are search filters: 'Search - Bridge' with an input field for 'Enter Bridge Number/Name', and 'Search - District Wise' with a 'Select District' dropdown menu. The main area displays a 'Bridge List' table with columns: Bridge No, Name, River name, District, Location, Supporting Agency, Completed Date, and Actions. The table contains four rows of test data. At the bottom, there is a pagination bar showing 'Showing 1 to 4 of 4 bridges' and 'Previous', 'Next' buttons.

Add Bridge: This menu is clicked to add details of new bridge. After clicking on add bridge menu, below screen will appear with several milestones, there are total 14 milestones as seen below:

The screenshot shows the 'Add Bridge' interface. At the top, there is a sidebar with 'Add New' and 'Close' buttons. Below these are 14 milestones represented as tabs: 'Basic Data', 'Site Assessment', 'Beneficiaries' Composition', 'Public Hearing', 'UC Formation', 'Design', 'Cost Estimate', 'Insurance', 'Sign Board', 'Steel Parts', 'Construction Work', 'Final Inspection', 'Public Audit', and 'Employment Generation'. The 'Basic Data' tab is selected.

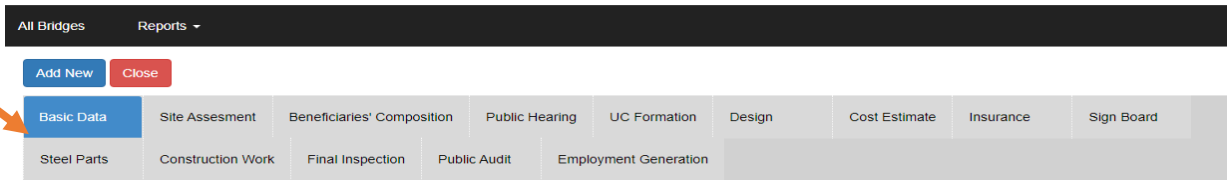
Basic Bridge Data

The 'Basic Bridge Data' form contains the following fields:

- Bridge Name: Text input
- Name of Place: Text input
- Bridge No: Text input (value: 0)
- District Name Left Bank: Dropdown menu (value: -- Please select --)
- District Name Right Bank: Dropdown menu (value: -- Please select --)
- River Name: Text input
- Municipality Left Bank: Dropdown menu (value: -- Please select --)
- Municipality Right Bank: Dropdown menu (value: -- Please select --)
- Funding agency: Dropdown menu (value: -- Please select --)
- Ward RB: Text input (value: 0)
- River Type (No. of months can be crossed): Text input (value: 0)
- Distance gained (Hrs): Text input (value: 0)
- Distance to Road Head (days): Text input (value: 0)
- Project Status: Dropdown menu (value: -- Please select --)
- Fiscal Year: Dropdown menu (value: -- Please select --)

- a. **Basic data:** Basic data is the initial milestone which includes basic information, geographic information, detoured information, and Fiscal year of the bridge construction. After entering data in all fields, the save button is clicked to save and end, if we need to enter another bridge information otherwise save and close button is clicked. And the Close button is clicked to end the session for data entry. At the top of the image, there are 2 buttons: Add

new and close button. Add new button is clicked to add new basic data of bridge. Otherwise, close button is used if we finish entering the data.



Basic Bridge Data

Bridge Name	<input type="text"/>	Name of Place	<input type="text"/>	Bridge No	<input type="text" value="0"/>
District Name Left Bank	-- Please select --	District Name Right Bank	-- Please select --	River Name	<input type="text"/>
Municipality Left Bank	-- Please select --	Municipality Right Bank	-- Please select --		
Major Municipality	Left	Funding agency	-- Please select --		
Ward LB	0	Ward RB	0		
Distance gained (Hrs)	0	River Type (No. of months can be crossed)	0		
Distance to Road Head (days)	0				
Project Status	-- Please select --				
Fiscal Year	-- Please select --				

- b. *Site Assessment*: Clicking on this button will display the image below. This milestone includes 5 columns with listed issues in the rows. The columns include issues, acceptable, “”, Deficiency and remarkable. The deficiency is filled only if there is lack of acceptability for the given issues. Here the information regarding site assessment is entered in all fields. At the end, assessment done by, Assessment date and remarks is also entered. After entering data in all fields, save button (blue) is clicked, if we need to enter another bridge information otherwise save and close button (green) is clicked. And the Close button is clicked if we finish entering the data.

Only marked if acceptable.

Filled the deficiency reason if unacceptable.

Management Information System

All Bridges Reports

Add New Close

Basic Data Site Assessment Beneficiaries' Composition Public Hearing UC Formation Design Cost Estimate Insurance Sign Board

Steel Parts Construction Work Final Inspection Public Audit Employment Generation

Site Assessment

S.No.	Issues	Acceptable	Deficiency	Remedial Action
1	Stability of the bank/slopes			
1.1	In case of soil	No sign of erosion/slides <input type="checkbox"/>		
	Far from confluence <input type="checkbox"/>			
1.2	In case of rock	Bedding plane subparallel/opposite to the slope <input type="checkbox"/>		
	No sign of wedge/toppling tailor <input type="checkbox"/>			
2	Influencing rivulet	No nearby rivulets <input type="checkbox"/>		
3	Meandering/Curving River	Rivers not hitting the bank or the bank is rock even if river is hitting <input type="checkbox"/>		
4	Source of Gravel	As per specifications <input type="checkbox"/>		
5	Source of Sand	As per specifications <input type="checkbox"/>		
6	Source of Stone	As per specifications <input type="checkbox"/>		
7	Profile Survey	Span and Level Correction and within tolerance <input type="checkbox"/>		

Assessment By

Assessment Date

Remark

Save and Close Save Close

- c. **Beneficiaries' composition:** Beneficiary composition includes the data of beneficiary populations and number of households based on dalit, jajnjati, minorities, and BCT and their respective percentage benefited after the construction of the bridge. Clicking on this button will display the image below. Here the information regarding beneficiaries' composition is entered in all fields. At the end, assessment done by, Assessment date and remarks is also entered. After entering data in all fields, save button (blue) is clicked, if we need to enter another bridge information otherwise save and close button (green) is clicked. And the Close button is clicked if we finish entering the data.

All Bridges Reports

Basic Data Site Assessment Beneficiaries' Composition Public Hearing UC Formation Design Cost Estimate Insurance Sign Board

Steel Parts Construction Work Final Inspection Public Audit Employment Generation

Immediate Beneficiaries' Composition

Cast/Ethnicity	No. of Households		Beneficiary Population		Total
	Total	Poor	Women	Men	
Dalit	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Janjati	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Minorities	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bct	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
%	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Assessment By	<input type="text"/>		Assessment Date	<input type="text"/>	<input type="radio"/> Active

Save and Close Save Close

- d. **Public Hearing:** Public hearing includes the number of members from the community involved in the committee for the construction of the bridge based on dalit, janjati, minorities and BCT. It also describes about the number of male and female members from the community. Clicking on this button will display the image below. Here the information regarding public hearing is entered in all field. At the end, assessment done by, Assessment date and remarks is also entered. After entering data in all fields, save button (blue) is clicked, if we need to enter another bridge information otherwise save and close button (green) is clicked. And Close button is clicked, if we finish entering the data.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Public Hearing

Total	Dalit	Janjati	Minorities	BCT	Total	Female	Male
					Sum		
Members from community	0	0	0	0	0	0	0
%	0	0	0	0	0	0	0
Assessment By		Assessment Date	<div></div>	<input type="radio"/> Active			

Save and Close
Save
Close

- e. **UC formation:** UC formation includes the number or composition of UC members and their positions. It also includes the number of male and female members inclusive in the formation for the construction of the bridge. Clicking on this button will display the image below. Here the information regarding UC formation is entered in all field. At the end, assessment done by, Assessment date and remarks is also entered. After entering data in all fields, save button (blue) is clicked, if we need to enter another bridge information otherwise save and close button (green) is clicked. And Close button is clicked, if we finish entering the data.

Add New

Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

UC Composition (Applicable for SSTB only) / Contracting (Applicable for LSTB only)

Positions	Dalit	Janjati	Minorities	BCT	Total		
					Sum	Female	Male
Chairperson	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
(DY) Chairperson	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Secretary	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Treasurer	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
UC Members	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Total	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
%	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="100"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>
Name of Contractor (LSTB)	<input type="text"/>	Date of Contract Agreement	<input type="text"/>				
Assessment By	<input type="text"/>	Assessment Date	<input type="text"/>	<input type="radio"/> Active			

Save and Close

Save

Close

- f. **Design**: Design milestone is specially focused on the design part. It specially includes the acceptability of the bridge type selection, span, overall design, free board, environmental consideration, foundation location, cable geometry and design optimization. Clicking on this button will display the image below. Here the information regarding design of a bridge is entered in all field. At the end, assessment done by, Assessment date and remarks is also entered. After entering data in all fields, **save button (blue)** is clicked, if we need to enter another bridge information otherwise **save and close** button (green) is clicked. And **Close** button is clicked, if we finish entering the data.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Design (Desk Study)

S.No.	Issues	Acceptable		Deficiency	Remedial Action
1	Bridge Type Selection	Selected Bridge type is correct(LSTB or SSTB/(Suspension or Suspended))	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
2	Span	Appropriate	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
3	Overall Design	Meets the norms and standards	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
4	Free Board	(>= 5m)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
5	Environmental Consideration	Cutting and filling is balanced and cut slopes maintained	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6	Foundation Location	Both Criteria(slope angle & frontage) in the standard are met	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
7	Cable Geometry	Meets the norms and standards and Optimized	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
8	Design Optimization	<=20% of the prevailing district linear cost	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Assessment By

Assessment Date

Remark

Save and Close
Save
Close

g. *Cost Estimate*: Cost estimate is related with the budget and the estimated cost required during the construction of bridge. It includes the cost of implementation approach, unit rates of steel parts, pottering cost and distance, and linear cost.

All Bridges
Reports

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Cost Estimate (Desk Study)

S.No.	Issues	Acceptable		Deficiency	Remedial Action
1	Implementation Approach	SSTB: Commit Approach	o	<input type="text"/>	<input type="text"/>
		LSTB: Contracting (Lumsun Contract/CTP)	o	<input type="text"/>	<input type="text"/>
2	Unit Rates of Steel Parts	Published reference rates based on the norms established by DOLI/MoUD	o	<input type="text"/>	<input type="text"/>
3	Unit Rates(Portering,Labor,Cement etc)	Approved palika/District rates followed	o	<input type="text"/>	<input type="text"/>
4	Portering distance	DCC's/Palika norms but not referred to 4	o	<input type="text"/>	<input type="text"/>

5	Per meter linear cost	Within limit	°	<input type="text"/>	<input type="text"/>
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Cost Assessment By

Cost Assessment Date

Remark

- h. *Insurance*: The milestone regarding the insurance includes about the information of insurance covered for the labor or not.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Insurance

Insurance Coverage ☐

Insurance Expiry Date

- i. *Sign Board*: This milestone covers the information regarding the placement of signboard at the bridge site. If the signboard is placed at the bridge site then the presence of signboard is indicated in the system by marking the tick else it is unmarked and saved with the updated date.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Sign Board

Sign Board ☐

Date

- j. *Steel Parts*: It includes the quality of finished steel parts and the acceptability according to the used steel parts during the construction of the bridge. If the requirements meet the acceptable list, then it is marked as yes else it is unmarked mentioning the deficiency reason and any remedial action if any.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Quality of Fabricated Steel Parts (Factory Visit)

S.No.	Issues	Acceptable		Deficiency	Remedial Action
1	Quality of finished steel parts	Lab test reports of raw materials is available	<input type="checkbox"/>		
		Manufacturer maintains QA documentation of fabrication & Galvanization	<input type="checkbox"/>		
		Welding is smooth and without pores	<input type="checkbox"/>		
		Zinc coating is as per specification	<input type="checkbox"/>		
		100% Assembled fittings have been checked positively	<input type="checkbox"/>		
		Wire mesh is made of 10 SWG GI Wires and with heavy coating	<input type="checkbox"/>		
		Nuts/bolts are as per specification & drawing	<input type="checkbox"/>		

Assessment By

Assessment Date

Remark

Save and Close
Save
Close

- k. **Construction Works:** Construction works carry detailed information and issues faced during the construction of the bridges. If any of the issues are not accepted in the construction works, then the system will show that the bridge technically failed though the bridge is completed in the site. But since it did not meet the requirement and proof that all the issues are resolved, for quality improvement the system labels it as technically failed. It includes the issues to be addressed as Quality of cable, cable sage, relative sag, bulldog grips, cross checking for the quality of stones, cement, plum concrete, anchorage foundation, tower, and galvanization check. On acceptance of the issue the bridge is marked as accepted otherwise, deficiency reason should be illustrated in the field as shown in the field below. If any document for the mentioned issue is not available during the time of update can be further edited or updated once available by clicking on the edit option in the list as shown in figure I.

Acceptability check

Deficiency reason & remark

Remedial action if any

All Bridges Reports ▾

Add New

Social Issues ▾
 Unacceptable Bridge ▾
 Access & Utility ▾

Basic Data

Bridges' Composition

Public Hearing

UC Formation

Design

Cost Estimate

Insurance

Sign Board

Steel Parts

Construction Work

Final Inspection

Public Audit

Employment Generation

Quality of Civil Works and Cable Sag (Site Visit)

S.No.	Issues	Acceptable		Deficiency	Remedial Action
1	Quality of Cable	Without kinks and/or broken strands	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
2	Cable Sag	As per design	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
3	Relative Sag	Equal sag of all cables	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
4	Bulldog Grips	As per design & specifications	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
5	Cross Check the quality of stones/aggregate/sand	Chiseled dressed, hammer dressed and broken stones are as per drawings and for aggregate & sand refer to CMS 2	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6	Cement	OPC Min,43 Grade	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

		Monolithic & stepwise construction	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
9	Workmanship(General)	As per specifications: Concrete/Mortar mix, Bond/joints, Plumb vertical/horizontal and Curing	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
10	Plum Concrete	Size of Boulder < 10cm	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
		Minimum gap of 12cm between boulders maintained	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
11	Dimension of Anchorage & Foundation blocks	As per design and drawing	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
12	Tower(N Types only)	Vertical, Missing nuts and bolts. Temporary struts are in place	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
13	Painting works of non galvanized steel parts(MM only)	As per specifications.	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Assessment By
 Assessment Date
 Remark

Save and Close

Save

Close

L. Final Inspection: Final Inspection is also a part of the construction phase of the bridge. It enables the final check of the completion of the bridge by marking several issues such as cable sag, relative sag, bulldog grips, anchorage foundation, walkway, suspenders, towers, wind guy arrangements, wire mesh, and wind ties. This is generally performed after the completion of bridge. After the bridge is completed Final check (FC) and Bridge Maintenance committee (BMC) is performed. During the time public audit and quality assessment is also done by filling the format of quality assessment and later updating in the online system based on FC and BMC. During the period Bridge warden and Bridge maintenance committee is formed for the maintenance of the bridge from the local community.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Final Inspection (Site Visit)

S.No.	Issues	Acceptable		Deficiency	Remedial Action
1	Cable Sag	As per design	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
2	Relative Sag	Equal sag of all cables	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
3	Bulldog Grips	Number as per specification	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
		No missing	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
		Retightened	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
4	Anchorage/Foundation Block	Proper cut slopes as per drawing	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
		Dimensions as per drawing	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
		Stone masonry and concreting as per drawing & specifications	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

M. Public Audit: Public Audit is done during the final check or final inspection of the bridge after the completion of the bridge. During this time, involvement of the community person, beneficiaries, UC members etc. are recorded. BMC is arranged and bridge warden is appointed and the data related to public audit is then transformed to the system.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Participants during Public Audit

Total	Dalit	Janjati	Minorities	BCT	Total		
					Sum	Female	Male
Members from community	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Total %	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Assessment By	<input type="text"/>	Assessment Date	<input type="text"/>	<input type="radio"/> Yes			

Save and Close
Save
Close

N. Employment Generation: During the construction of the bridge, employees are created, and works are performed from the local community. Thus, the local community also benefited from several employment opportunities. Thus, those record of employment generation and the number of employees as per the caste and gender are recorded and are updated in the system.

All Bridges
Reports

Add New
Close

Basic Data	Site Assessment	Beneficiaries' Composition	Public Hearing	UC Formation	Design	Cost Estimate	Insurance	Sign Board
Steel Parts	Construction Work	Final Inspection	Public Audit	Employment Generation				

Local Employment Generation

Cast/Ethnicity	Women	Men	Poor	Total
Dalit	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Janjati	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Minorities	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
BCT (Male)	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
BCT (Female)	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Total	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
%	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Save and Close
Save
Close

Search Bridge: Search field allows you to easily search or find the individual bridge details from the list of bridges. To search the details of any bridge, a bridge name or bridge number is entered in a field as seen in below fig. The bridge can also be searched by district wise as well.

Search by bridge name or number

Utilities

Add Bridge

Search - Bridge

Enter Bridge Number/Name

Search - District Wise

Select District

All District

All Bridges
Reports

Bridge List

Show 10 bridges
Search:

Bridge No	Name	River name	District	Location	Supporting Agency	Completed Date	Actions
22 5 0859 18 06 01	Tasinam	Gonba khola	Dolakha	Gonba khola	SWAp		

Showing 1 to 9 of 9 bridges

Previous

Next

1

Search by bridge name or number

Search by bridge name or number

Search district wise: Here the name of district is selected from the dropdown menu and press enter. It will display bridge list districtwise as below mentioned figure.

Search by district

Utilities
Add Bridge

Search - Bridge
Enter Bridge Number/Name

Search - District Wise
Select District
All District
-- Please select --
Achham
Arghakhanchi
Baglung
Baitadi
Bajhang
Bajura
Banke
Bara
Bardiya
Bhaktapur
Bhojpur
Chitawan

Bridge List

Show 10 bridges

Search:

Bridge No	Name	River name	District	Location	Supporting Agency	Completed Date	As
22 5 0217 18 06 06	Dholi khola gagreto	Dholi khola	Dolakha	Dholi khola	SWAp		
22 5 0217 18 06 07	Naike gaun Kharidhunga Truss	Dholi Khola	Dolakha	Dholi Khola	SWAp		
22 3 0218 18 06 04	Kajjale khola	Kajjale khola	Dolakha	Kajjale khola	SWAp		
22 3 0218 18 06 05	Hatti Chhahara	Charnawati Khola	Dolakha	Hatti Chhahara	SWAp		
22 5 0861 18 06 01	Orang khola	Orang khola	Dolakha	Orang khola	SWAp		
22 5 0859 18 06 01	Tasinam	Gonba khola	Dolakha	Gonba khola	SWAp		
23 5 0517 18 06 04	Kabe ghatte	Mahadev khola	Sindhupalchok	Kabe ghatte	SWAp		
23 5 0514 18 06 01	Sipa khola	Sipa khola	Sindhupalchok	Sipa khola	SWAp		
23 5 0598 18 06 04	Sunkoshi khola	Sunkoshi khola	Sindhupalchok	Sunkoshi	SWAp		
23 5 0515 18 06 06	Nesham Khola	Nesham Kholaju	Sindhupalchok	Jugal	SWAp		

Showing 1 to 10 of 10 bridges

Previous Next 1

2. **Reports:** It consists of 3 sub menus as: **Social Issues, Unacceptable Bridge, and Access and Utility** as seen in below image.

Reports

Social Issues

Unacceptable Bridge

Access & Utility

Utilities
Add Bridge

Search - Bridge
Enter Bridge Number/Name

Search - District Wise
Select District
All District

Bridge List

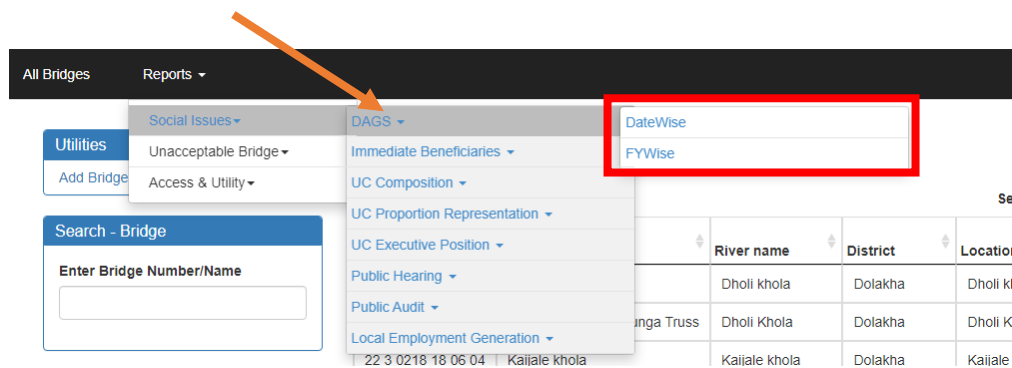
Show 10 bridges

Search:

Bridge No	Name	River name	District	Location	Supporting Agency	Completed Date	As
22 5 0217 18 06 06	Dholi khola gagreto	Dholi khola	Dolakha	Dholi khola	SWAp		
22 5 0217 18 06 07	Naike gaun Kharidhunga Truss	Dholi Khola	Dolakha	Dholi Khola	SWAp		
22 3 0218 18 06 04	Kajjale khola	Kajjale khola	Dolakha	Kajjale khola	SWAp		
22 3 0218 18 06 05	Hatti Chhahara	Charnawati Khola	Dolakha	Hatti Chhahara	SWAp		
22 5 0861 18 06 01	Orang khola	Orang khola	Dolakha	Orang khola	SWAp		
22 5 0859 18 06 01	Tasinam	Gonba khola	Dolakha	Gonba khola	SWAp		
23 5 0517 18 06 04	Kabe ghatte	Mahadev khola	Sindhupalchok	Kabe ghatte	SWAp		

Each sub menu as further child sub menu as:

1. **Social Issues:** It has 8 child-sub menus. Clicking on 1st child sub menu:
 - 1.1. **DAGs** will further generate 2 sub menus as: Date wise and FY wise. DAGs give detailed information of the disadvantaged groups as per the bridge. It provides beneficiary population, total households, and DAG population as per Dalit, Janjati, Minorities and BCT and their respective percentage. The images are shown below.



➤ Date wise Reports

All Bridges **Reports** ▼

DAGS
Choose Date

Start Date:

End Date:

Report **Back**

➤ FY wise Report:

All Bridges **Reports** ▼

DAGS
Choose Fiscal Year

Start Year:

End Year:

Report **Back**

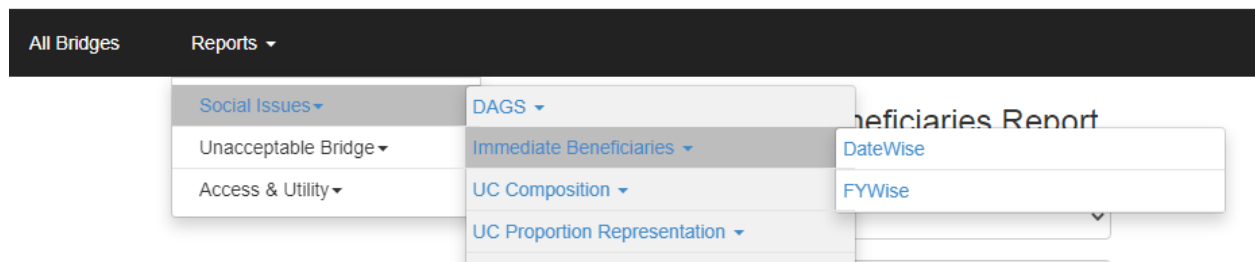
➤ DAG report as per FY

Filter By Province

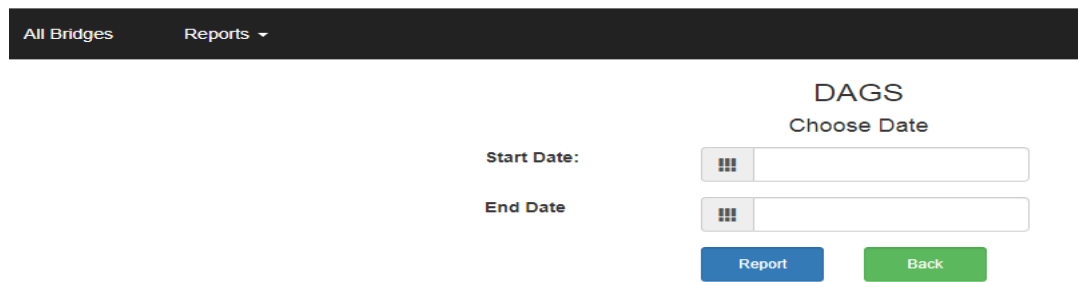
Disadvantaged Group (Between 20222023 - 20222023)

SN	Bridge Id	Name	Total Households	Total Beneficiaries Population	Daalit	Jenajati	DAG Population	BCT	Total
							Minorities		
District:Bara									
1	33 3 0180 18 06 06	Baiganga	1435	7175	0155	800	0	680	1435
2	33 5 0143 18 06 03	Bhelu Khola	804	4099	030	525	0	249	804
3	33 5 0143 18 06 04	Koraha Ghat	942	4754	0325	571	39	7	942
4	33 5 0144 18 06 02	Muni/Mahurespur Ghat	414	2144	030	330	30	4	414
5	33 5 0144 18 06 03	Aduna Khola	0	0	0	0	0	0	0
6	33 3 0180 18 06 06	Ghatel Ghat	708	3579	092	335	280	21	708
Total per District:			4303	21750	652	2361	329	961	4303
%					3.00	10.86	1.51	4.42	19.78

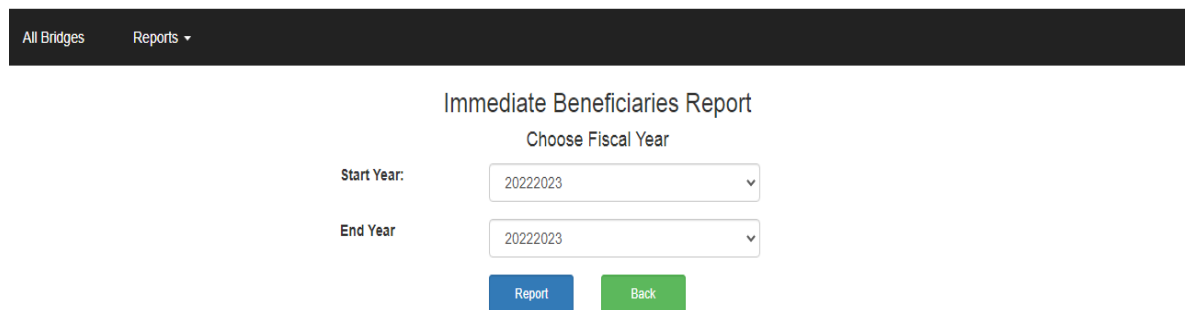
1.2. **Immediate Beneficiary:** It is the second child sub menu. It has further 2 sub menus as: Date wise and FY wise like DAG. It generates the report of beneficiary population and their percentage, number of households etc. The images are given below.



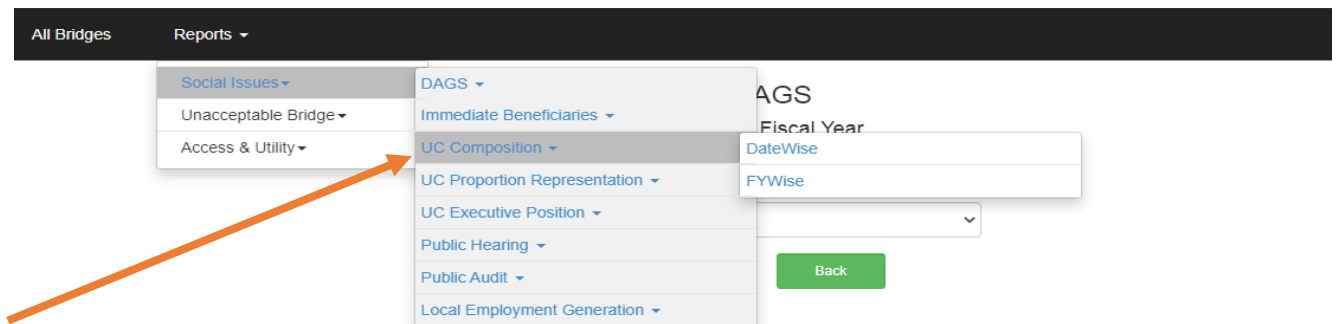
➤ Date wise Reports



➤ FY wise Reports



1.3. **UC Composition:** UC composition provides the user committee composition based on total number of members, gender and caste and ethnicity. It is the third child sub menu. It has further 2 sub menus as: Date wise and FY wise. The images are given below.



User Committee Composition (Between 20222023 - 20222023)

SN	Bridge Id	Name	Total no. of Members	Men	Women	Dalits	Janjatis	Minorities	BCT
DistrictBara									
1	33 3 0150 18 08 05	Balganga	0	0	0	0	0	0	0
2	33 3 0143 18 08 03	Bhalu Khola	0	0	0	0	0	0	0
3	33 3 0143 18 08 04	Harna Dhat	7	4	3	4	2	1	0
4	33 3 0144 18 08 02	Muni Mahurespur Dhat	0	0	0	0	0	0	0
5	33 3 0144 18 08 03	Aduna Khola	0	0	0	0	0	0	0
6	33 3 0150 18 08 06	Ornat Dhat	0	0	0	0	0	0	0
Total:			7	4	3	4	2	1	0
%				57.14	42.86	57.14	28.57	14.29	0.00

1.4. **UC proportion Representation:** It provides the proportionate study of both beneficiary population and UC composition based on caste and ethnicity population (Dalit, Janjati, Minorities and BCT). Based on proportionate study, the acceptability is decided. It is the fourth child sub menu. It has further 2 sub menus as: Date wise and FY wise. The images are given below.

All Bridges
Reports

Social Issues
Unacceptable Bridge
Access & Utility

DAGS
Immediate Beneficiaries
UC Composition
UC Proportion Representation
UC Executive Position
Public Hearing
Public Audit
Local Employment Generation

DAGS
Fiscal Year
DateWise
FYWise
Back

Print
Filter By Province
Madesh Province

UC Proportion Representation Report (Between 20222023 - 20222023)

SN	Bridge Id	Name	Beneficiary Population			UC Composition				Proportionately Representative
			Dalits (%)	Janjatis (%)	Others (%)	Dalits (%)	Janjatis (%)	Minorities (%)	BCT (%)	
DistrictBara										
1	33 3 0150 18 08 05	Balganga	10.80	41.81	0.00	47.39	0.00	0.00	0.00	
2	33 3 0143 18 08 03	Bhalu Khola	0.00	64.27	0.00	21.72	0.00	0.00	0.00	
3	33 3 0143 18 08 04	Harna Dhat	34.28	60.77	4.16	57.14	42.86	14.29	0.00	
4	33 3 0144 18 08 02	Muni Mahurespur Dhat	11.71	79.94	7.37	0.00	57.14	42.86	14.29	0.00
5	33 3 0144 18 08 03	Aduna Khola	11.71	79.94	7.37	0.00	57.14	42.86	14.29	0.00
6	33 3 0150 18 08 06	Ornat Dhat	12.91	48.83	37.35	2.85	57.14	42.86	14.29	0.00
Total (Accepted):									2	

1.5. **UC Executive Positions:** This report generates the composition of UC executive positions i.e Chairperson, Chairperson (DY), Secretary, Treasurer. The images are given below.

All Bridges
Reports

Social Issues
Unacceptable Bridge
Access & Utility

DAGS
Immediate Beneficiaries
UC Composition
UC Proportion Representation
UC Executive Position
Public Hearing
Public Audit
Local Employment Generation

DAGS
Fiscal Year
DateWise
FYWise
Back

Print

Filter By Province

Sudur Pashchim Province

Executive Position Held in UC FYWise (Between 20222023 - 20222023)

SN	Bridge Id	Bridge Name	Chairperson				SPY Chairperson				Secretary				Treasurer				Status
			D	J	M	W	D	J	M	W	D	J	M	W	D	J	M	W	
District:Dadeldhura																			
1	73 S 0169 18 08 18	Baai ST	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	
2	73 S 0169 18 08 19	Jada Kana	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	
3	73 S 0170 18 08 10	Dumkhesi	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1
4	73 S 0170 18 08 11	Karainchok	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1
5	73 S 004 18 08 22	Taro Mangal	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0	0	
6	73 S 004 18 08 23	Tudbas	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1
Total (Accepted)			0	0	0	6	0	0	0	3	0	0	0	6	2	0	0	4	6

1.6. **Public Audit:** It describes whether a public audit has been conducted or not. During the time of public audit actual cost and bridge maintenance committee is formed. The images are given below.

All Bridges
Reports

Social Issues
Unacceptable Bridge
Access & Utility

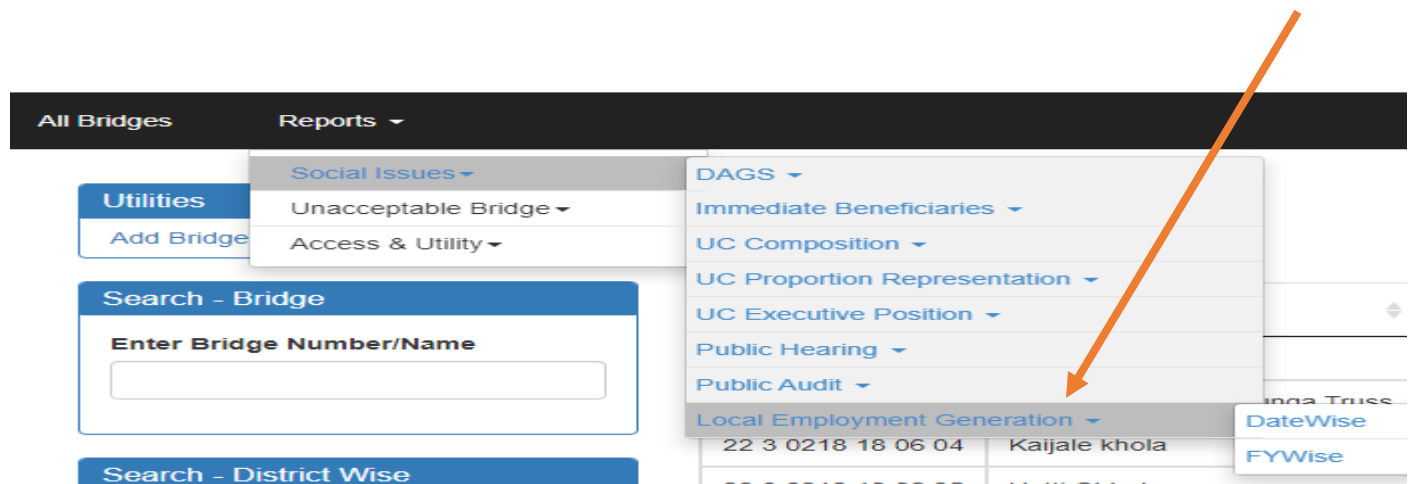
DAGS
Immediate Beneficiaries
UC Composition
UC Proportion Representation
UC Executive Position
Public Hearing
Public Audit
Local Employment Generation

DAGS
Fiscal Year
DateWise
FYWise

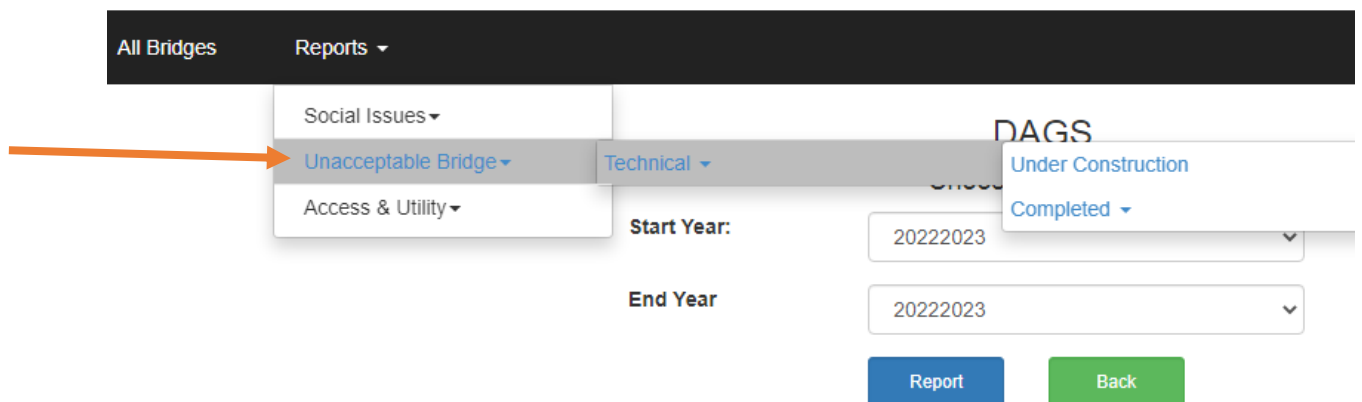
Participation during Public Audit (Between 20222023 - 20222023)

SN	Bridge Id	Name	Public Audit Conducted
District:Arghakhanchi			
1	80 S 0109 18 08 11	Damarasi	no
District:Baglung			
2	43 S 0116 18 08 05	Rudbarani Ghat Trail Bridge	no

1.7. **Local Employment Generation:** It describes the employment generated from the local community during the construction of the bridge. It includes the number of employments generated by gender, caste, and ethnicity.



2. **Unacceptable Issues:** It is the second child menu under main menu Reports. It consists of a sub child menu “Technical” which further consists of 2 sub child menus as under construction and completed. This menu describes the unacceptability of the under construction and completed bridges due to technical reasons. The bridges, even if it is completed can be unacceptable if it lacks the criteria described in the system. The same procedure is applied for the under-construction bridge as well.



Clicking on under construction will generate you the list of active bridges which are unacceptable due to some lack of technical glitches that are not fulfilled in the system.

List of Unacceptable Under Construction Bridges		
Issues	Deficiency	Remedial Action
District:Kabhrepalanchok		
Bridge No: 24 5 0500 10 08 04	Bridge Name: Phedi Anptar	Physical Progress:
UC Formation >> UC Proportion	Not Defined Yet	

Clicking on completed will generate those bridges list that are completed but are technically unacceptable due to lack of technical glitches that are not filled in the system.

All Bridges
Reports

Social Issues
Unacceptable Bridge
Access & Utility

Technical
Under Construction
Completed

DateWise
FYWise

District:Kabhrepalanchok

Bridge No: 24 5 0508 18 08 04
Bridge Name: Phedi Anptar
Physical Progress:

UC Formation >> UC Proportion
Not Defined Yet

1
2

- Access and Utility:** The menu describes the purpose of the bridge used. It provides the percentage of the usage purpose through which the beneficiaries are benefitted.

All Bridges
Reports

Social Issues
Unacceptable Bridge
Access & Utility

Completed

DateWise
FYWise

Unacceptable Completed Report

Choose Fiscal Year

20222023

End Year

20222023

Report
Back

Filter By Province

Gandaki Province

Access and Utility Report

SN	Bridge Id	Bridge Name	Palika	Distance Gained (hrs)	Distance to Road Head (days)	River Type (months)	Bridge Utility	
							Left Bank	Right Bank
District:Baglung								
1	43 5 0116 18 06 05	Rudbarana Ghat Trail Bridge	Tara khola Da Pa	1.93	0	7	Markets	Household Activities
District:Eastern Nawalparasi								
2	47 5 0371 18 06 05	Plan Ghat	Binayee Tribeni Da Pa	5	0.5	6	Household Activities	Schools
3	47 3 0374 18 06 02	Bogha Ghat	Madhyabindu Na Pa	15	0	6	Schools	Household Activities
District:Kaski								
4	39 5 0640 18 06 06	Hugu Naule	Madh Da Pa	15	0	0	Household Activities	Household Activities
5	39 5 0641 18 06 05	Ghatte khola Sunki khola	Annapurna Da Pa	2	0.125	6	Social Functions	Household Activities
6	39 5 0641 18 06 06	Runhe Sagu	Annapurna Da Pa	0.93	0.02	9	Schools	Household Activities
District:Mustang								
7	45 5 0364 18 06 07	Narsing khola (Tatang Choprang)	Bamegun Mudhinsara Da Pa	1	0	6	Household Activities	Household Activities
District:Myagdi								
8	44 5 0647 18 06 01	Deushni Patak khola	Malika Da Pa	6	0	6	Household Activities	Household Activities
Total:				1166.416	139.6265	3251	Markets	17.37 %
							Health Posts	14.61 %
							Schools	24.54 %
							Social Functions	16.11 %
							Household Activities	25.37 %