

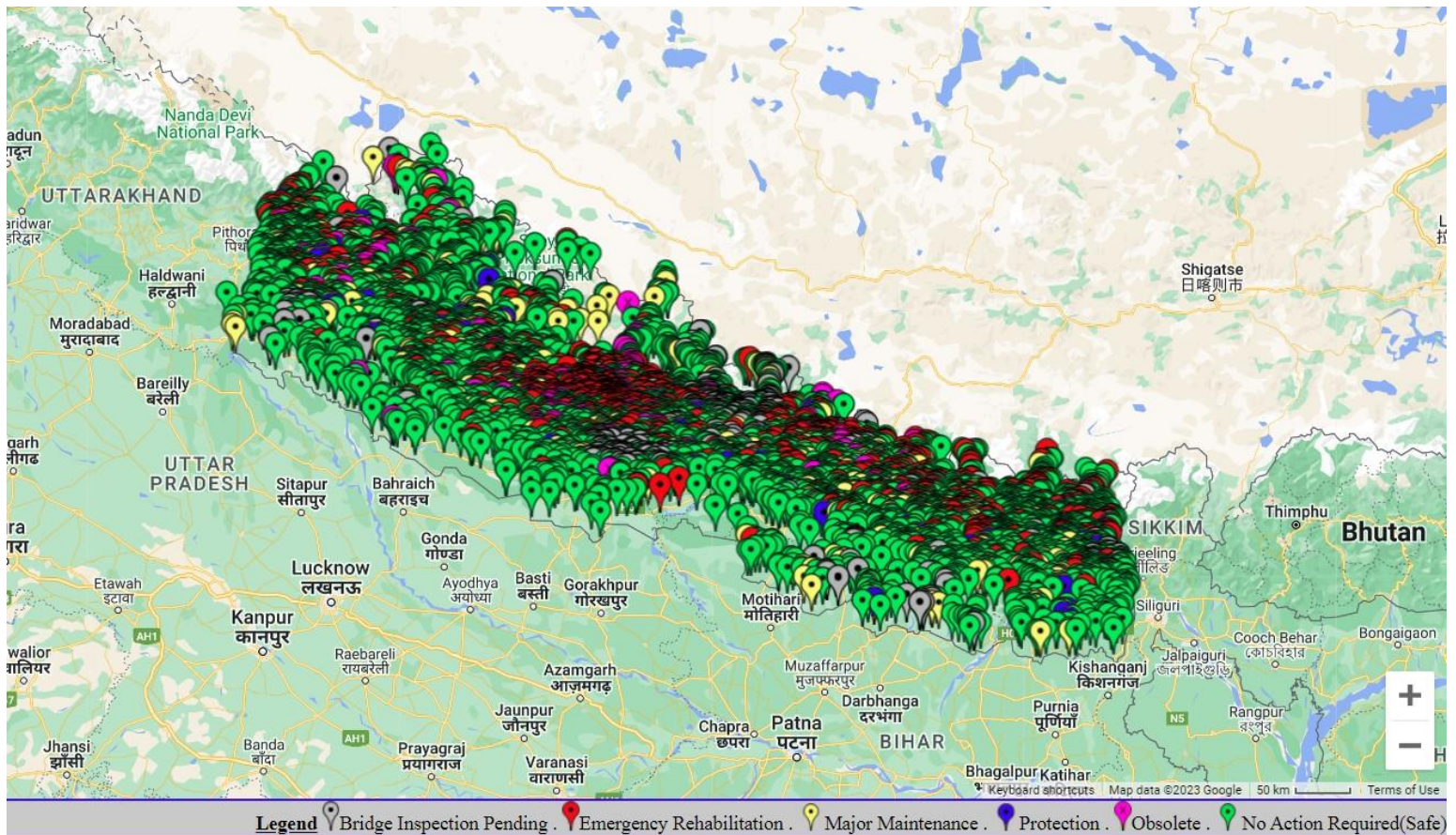


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Operational Guidelines

National Bridge Record System (NBR)



National Bridge Record System (NBR)

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Background

National Bridge record System (NBR) is web based online system developed for the quality monitoring of each bridge. It is developed for the continuous monitoring of the bridge condition. It includes the geographical location (Coordinate system using google map and GPS system) with the bridge conditions and its detail information.

The system is developed to continuous checkup of the bridge condition. The newly constructed bridges are investigated at least once every three years. NBR is the main tools for the Maintenance and Rehabilitation of the bridge.

Budgeting and Planning of the individual bridge is based on the NBR system generated report. As the system is web based online system so any individual can view and get the access to monitor and observe the detail information and condition of the bridge and are able to get the immediate information regarding the bridge condition such as emergency rehabilitation, Major maintenance, Protection, no action Required, Obsolete and Bridge Inspection Pending.

Based on the bridge condition mentioned in the system, the public can seek support from Municipality and / or rural Municipality for the new construction or any maintenance required for already existing bridge.

URL and LOGIN

The direct URL of TBSU PMIS system is <http://nbr.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 infoware menu.
3. Click on NBR
4. Login with provided or authenticated username and password.



Government of Nepal
Ministry of Urban Development
Department of Local Infrastructure
Local Bridge Section



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Nepal Trail Bridge Record - User Login

Username

Password

Login

For Guest users,

Username:
guestuser@guestuser.com
Password: guestuser



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For technical problems and feedbacks please email to System Officer: akaram.salamani@helvetas.org

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.

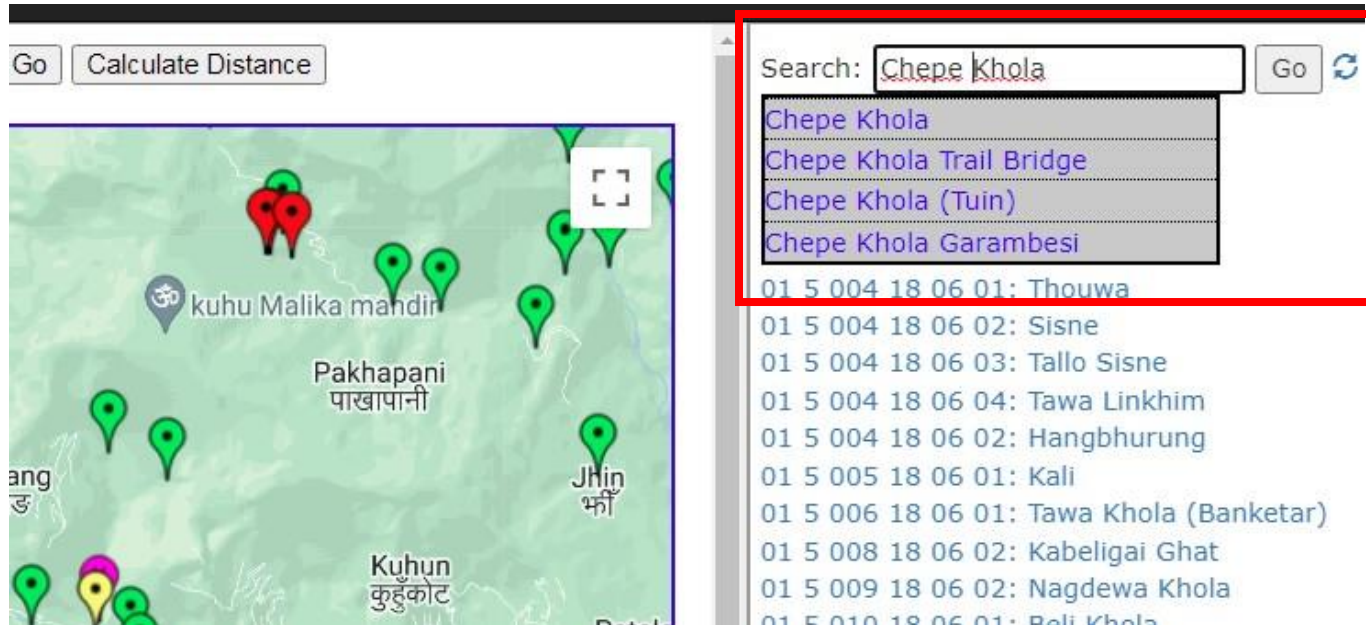
Dashboard and Menus

After login, dashboard will appear as shown in the image below. Dashboard – Home where one can view the list of bridges, condition of the bridge and geographical location of the bridges in google map API, 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.

List of Menus

1. Home
2. Bridge Reports
3. Settings

1. **Home:** Home is the dashboard of the NBR system where the list of bridges is displayed. The bridge's condition can be determined, and the geographical and hydrological location of the bridge is determined. Bridges can be searched by the bridge name or bridge number from the search bar.



Place: Search Lat: Lng: Go District: Taplejung VDC/Muni: Aathrai Tribeni Ga Pa Go Calculate Distance

Map
Satellite

Add/Edit Bridge Information

Put same PMIS Bridge Number, if exist.

BridgeNumber: 37 5 021 18 06 08

Old Number:

Bridge Name: Chepe Khola

Bridge Type: SSB D

Bridge Span(Mtr): 91

Trail Type: Main

Major DCC: Lamjung

Major RM/UM: Elampokhari

Ward No.:

River Name: Chepe Khola

RM/UM Left: Rupa

RM/UM Right:

Latitude: 28.175065335949554

Longitude: 84.6151971816688

Coordinate Source: GoogleEarth

Funding Agency:

National Agency: SWAp/GoN

Foreign Agency: KAABGN

Select Bridge Conditions as per BCI

☐ Cable terminals / Anchorage Steel Parts heavily rusted

☐ Main Cables / Walkway Cable / Handrail Cable heavily rusted

☐ Tower Base element heavily rusted

Bridge Status: No action required

Action Taken: ☐ Work In Progress

Each color marker in the google map API defines the condition of the bridge as shown below.



2. Adding Bridge Information:

Several fields need to be filled before adding bridge data.

- Place of data entry
- Latitude and Longitude (GPS) location of the bridge
- Name of the district and its respective municipality where the bridge lies.
- Then, click on go and then click on calculate distance.

Place: Search Lat: Lng: Go District: Dang VDC/Muni: Tulsipur Na Pa Go Calculate Distance

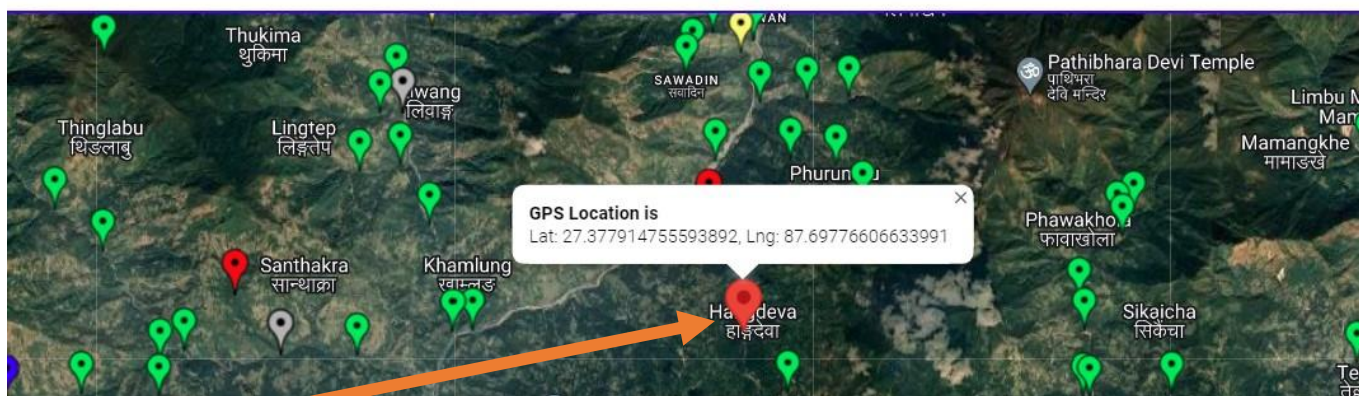
Map
Satellite

Search: Go

- 01 5 002 18 06 01: Jogi Rumba
- 01 5 002 18 06 02: Dhupaure
- 01 5 003 18 06 04: Mauwa Khola
- 01 5 003 18 06 05: Gopani
- 01 5 004 18 06 01: Thowwa
- 01 5 004 18 06 02: Sisne
- 01 5 004 18 06 03: Tallo Sisne
- 01 5 004 18 06 04: Tawa Linkhim
- 01 5 004 18 06 02: Hangbhurung
- 01 5 005 18 06 01: Kali
- 01 5 006 18 06 01: Tawa Khola (Banketar)
- 01 5 008 18 06 02: Kabeligai Ghat
- 01 5 009 18 06 02: Nagdewa Khola
- 01 5 010 18 06 01: Bell Khola
- 01 5 010 18 06 03: Tumcha Khola
- 01 5 010 18 06 05: Hoputar
- 01 5 011 18 06 01: Phuwa
- 01 5 012 18 06 01: Kabeli I
- 01 5 012 18 06 02: Siwa Khola
- 01 5 013 18 06 02: Sajju
- 01 5 013 18 06 04: Phawa Khola (Orakpa)
- 01 5 013 18 06 05: Phawa Khola (Sisne)
- 01 5 014 18 06 01: Sakrate
- 01 5 014 18 06 03: Siwa
- 01 5 014 18 06 04: Tiringe
- 01 5 014 18 06 06: Amilise
- 01 5 015 18 06 01: Devidaha
- 01 5 015 18 06 03: Hapu Khola
- 01 5 015 18 06 04: Nebu Khola
- 01 5 016 18 06 01: Make
- 01 5 017 18 06 02: Phawa Khola
- 01 5 018 18 06 01: Phawa Khola
- 01 5 019 18 06 01: Sinam Panchami
- 01 5 020 18 06 01: Inwa Dobhan

- Clicking on the calculated distance a big red marker will appear to the respective district and municipality with its corresponding GPS location.

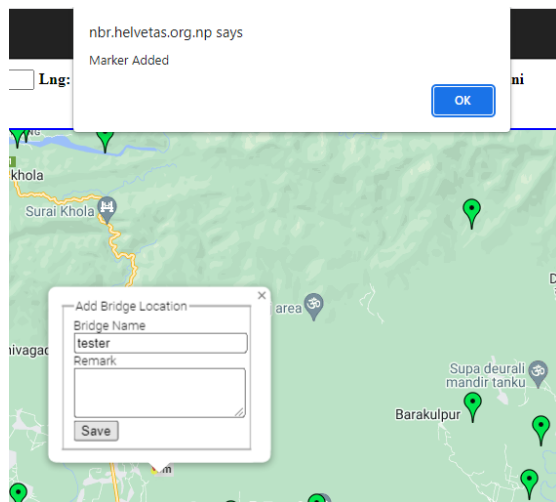
Lat: Lng: District: VDC/Muni:



- f. A hand will appear to the bottom of the marker once the mouse cursor is placed at the bottom of the marker.
- g. Double left click once the hand icon appeared at the bottom of the marker, then a pop up box will appear with the bridge name field.
- h. Input the bridge name field with the respective bridge name.



- i. Then click on Save.
- j. Click on Ok.



- k. Refresh the page and drag the list at the bottom of the bridge list. There you will see the added bridge name at the end of the list.
- l. Click on the bridge name then the detail form will appear.
- m. Fill up the missing details in the forms properly.

Place: Search Lat: Lng: Go District: VDC/Muni:

Map Satellite

BridgeName: **Tester2**
River:
BridgeType: **dw** Span:
BridgeCondition:

Add/Edit Bridge Information

Put same PMIS Bridge Number, if exist.
BridgeNumber

Old Number:

Bridge Name:

Bridge Type:

Bridge Span(Mtr):

Trail Type:

Major DCC:

Major RM/UM:

Ward No.:

River Name:

RM/UM Left:

RM/UM Right:

Latitude:

Longitude:

Coordinate:

Source:

Funding Agency
National:
Agency:
Foreign:
Agency:

Select Bridge Conditions as per BCI

☐ Cable terminals / Anchorage
Steel Parts heavily rusted

☐ Main Cables / Wallows: Cable /

3. Bridge Reports

The bridge report generally shows the detail basic information of the bridge along with its condition and geographical information of the bridge. The information includes bridge numbers, bridge name, bridge type, span, river name, district, province, municipality left /right, major municipalities, ward number, trail type, latitude, longitude, national and funding agency, completion FY, Bridge condition, Action taken, Bridge warden information, inspected organization and persons name etc. The report can be displayed as per the bridge condition wise such as emergency rehabilitation, major maintenance, protection and no action required. It also filter report by the province as well as the detail bridge report can be exported in excel sheet.

Eg. of Emergency Rehabilitation report is as shown below.

Select the bridge types to filter the report

Maintenance Types:

☒Emergency Rehabilitation
 ☐Major Maintenance
 ☐Protection
 ☐No action required

☐Obsolete
 ☐Bridge Inspection Pending

Show Report

Filter by Province:

-Please Select-

Show Report

Export Report


Click the icon to export.

Summary Report

S.No	Bridge Number:	Bridge Name	Bridge Type	Bridge Span(M)	River Name	District	Major VDC	Ward No	Major Palika	Province	Trail Type	Latitude
1	01 5 004 18 06 02	Hangbhurung	D	119	Tamor Nadi	Taplejung	Limkhim		Phaktanglung	Province 1	Main	27.4511603
2	01 5 011 18 06 01	Phuwa	D	118	Tamor	Taplejung	Nangkholyang		Yangwarak	Province 1	Main	27.2974409
3	01 5 033 18 06 01	Hellok	D	54	Hellok Khola	Taplejung	Tapethok		Phaktanglung	Province 1	Local	27.526683
4	01 5 038 18 06 01	Khesenebar	D	62	Hangwa Khola	Taplejung	Thinglabu		Meringden	Province 1	Local	27.3853199
5	01 5 045 18 06 04	Mekuwa	D	50	Mekhuwa Khola	Taplejung	Ikhabu		Phaktanglung	Province 1	Local	27.4968422
6	03 5 018 18 06 01	Dudhang	D	106.0	Mai Khola	Ilam	Barbote		Majjogmai	Province 1	Main	26.9514435
7	08 5 001 18 06 03	Sisnedhara	D	70	Lundrungkhola	Terhathum	Aabung		Myanglung	Province 1	Local	27.1717302
8	08 5 003 18 06 05	Khorunga Khola (Asuwadovan)	D	30	Khorunga Khola	Terhathum	Sabla		Myanglung	Province 1	Local	27.1739589
9	08 5 030 18 06 01	Sallery Dovan	D	57.6	Kharanga Khola	Terhathum	Morahang		Phedap	Province 1	Local	27.1884729
10	09 5 001 18 06 01	Dema Khola	D	38	Dema Khola	Sangkhuwasabha	Diding		Chichila	Province 1	Local	27.4868728
11	09 5 007 18 06 02	Ipsuwa	LN	76.6	Arun	Sangkhuwasabha	Makalu		Makalu	Province 1	Local	27.5591505

Longitude	Coordinate Source	National Agency	Funding Agency	Completion FY	Bridge Condition	Action Taken	Mela	Inspected By		Bridge Warden		Comment & Recommendation
								Organisation	Persons Name	Name	Mobile No:	
87.7070101492352	GPS	VDC	DRILP+SDC/DFID	2010/11	Emergency Rehabilitation	Yet No Action		NGO personnel	Hemraj Bista	bridge not visible		
87.69314728657764	GPS	VDC	SDC	2006/07	Emergency Rehabilitation	Yet No Action		NGO personnel	Hemraj Bista	bridge visible		
87.8056338	GPS	GoN	CARE	1982/1983	Emergency Rehabilitation	Yet No Action		NGO personnel	Hemraj Bista	bridge visible		
87.57316292366704	GPS	VDC	DRILP+SDC/DFID	2008	Emergency Rehabilitation	Yet No Action		NGO personnel	Hemraj Bista	Limb wall crack by tree felled.		
87.7469015	GPS	GoN	Other	2003/04	Emergency Rehabilitation	Yet No Action		NGO personnel	Hemraj Bista	bridge not visible		
87.94821193558198	GoogleEarth	Other	Other	1987/4988	Emergency Rehabilitation	Yet No Action		NGO personnel		bridge visible		
87.5276389	GoogleEarth	DDC	SDC	2006/2007	Emergency Rehabilitation	Yet No Action		NGO personnel	Dhan Bdr Limbu	bridge visible		
87.5373324	GoogleEarth	DDC	SDC	1976/77	Emergency Rehabilitation	Yet No Action		NGO personnel	Dhan Bdr Limbu	bridge not visible		
87.53460190317992	GoogleEarth	DDC/VDC	SDC	1997/1998	Emergency Rehabilitation	Yet No Action		NGO personnel	Dhan Bdr Limbu	bridge visible		
87.20404919999999	GPS	GoN	SDC		Emergency Rehabilitation	Yet No Action		NGO personnel	Roshan Gurung	bridge not visible		
87.255156	GoogleEarth	GoN	CARE		Emergency Rehabilitation	Yet No Action		Public	Roshan Gurung	bridge not visible		

Province wise Bridge Inspection Pending



Home

Bridge Report

Welcome rashmi.jha@helvetas.org

Logout

Select the bridge types to filter the report

Maintenance Types:

☐Emergency Rehabilitation☐Major Maintenance☐Protection☐No action required☐Obsolete☒Bridge Inspection Pending


Show Report

Filter by Province:

Bagmati Province

Show Report

Export Report

 Click the icon to export.

Summary Report

S.No	Bridge Number:	Bridge Name	Bridge Type	Bridge Span(M)	River Name	District	Ward No	Major Palika	Province	Trail Type	Latitude	Longitude	Coordinate Source	National Agency
1	21 5 055 18 06 02	Sisnery Khola	D	41.8	Sisnery Khola	Ramechhap	3	Doramba Shailung Ga Pa	Bagmati Province	Local	27.5351908190395	85.93438262394261		DDC
2	23 5 047 18 06 03	Ghochyang Khola		16	Ghochyang Khola	Sindhupalchok	3	Melamchi	Bagmati Province	Local	27.8150378	85.5039203		
3	23 5 056 18 06 01	Okhle Chalise	D	64.5	Kundule Khola	Sindhupalchok	3	Helambu	Bagmati Province	Local	27.894239	85.5477154		DDC
4	23 5 057 18 06 05	Patang Lapse Khola	D	49.5	Balephi Khola	Sindhupalchok	2	Jugal Ga Pa	Bagmati Province	Local	28.0582243	85.7548731		
5	23 5 057 18 06 06	Dipu		59.7	Balephi Khola	Sindhupalchok	2	Jugal Ga Pa	Bagmati Province		28.043490139377955	85.77306967674122		
6	23 5 065 18 06 01	Timure Khola	D	83.6	Melamchi Khola	Sindhupalchok	1	Helambu	Bagmati Province	Local	27.9992351	85.5336821		DDC
7	23 5 065 18 06 02	Sarkathali		117	Melamchi Khola	Sindhupalchok	1	Helambu	Bagmati Province	Local	27.985844894155893	85.53182320407561		
8	23 5 075 18 06 01	Mahaveer Khalde	D	41.5	Khalde Khola	Sindhupalchok	8	Panchpokhari Thangpal Ga Pa	Bagmati Province	Local	27.8582336	85.6216344		DDC

Summary Report

Summary Report provides the detailed number of bridge condition in each district. For eg. as per the below summary report, in Taplejung there are 8 bridges that requires emergency rehabilitation, 9 major maintenance, 5 protection, 161 no action required, 0 obsolete, 3 bridge inspection pending and the total number of bridges is Taplejung is 186 as per the summary report.

SN	District	Emergency Rehabilitation	Major Maintenance	Protection	No action required	Obsolete	Bridge Inspection Pending	Total
1	Taplejung	8	9	5	161	0	3	186
2	Panchthar	6	11	3	138	0	3	161
3	Ilam	1	5	0	147	0	12	165
4	Jhapa	0	0	0	34	0	0	34
5	Morang	0	12	6	31	0	0	49
6	Sunsari	0	0	0	29	0	0	29
7	Dhankuta	0	8	0	46	0	2	56
8	Terhathum	3	7	1	103	0	0	114
9	Sankhuwasabha	18	7	0	160	0	0	185
10	Bhojpur	4	4	0	141	0	0	149
11	Solukhumbu	25	25	2	111	0	4	167
12	Khotang	20	43	7	95	0	3	168
13	Okhaldhunga	11	37	4	129	0	0	181
14	Udayapur	0	2	2	81	0	1	86
15	Saptari	0	1	0	17	0	1	19
16	Siraha	0	2	0	10	0	9	21
17	Dhanusha	0	0	0	10	0	0	10
18	Mahottari	0	1	1	16	0	0	18
19	Sarlahi	0	3	0	16	0	10	29
20	Sindhuli	1	12	1	119	0	0	133
21	Ramechhap	11	24	2	133	3	3	176
22	Dolakha	24	48	3	124	4	0	203
23	Sindhupalchok	18	34	1	116	11	9	189