



Government of Nepal
Ministry of Federal Affairs and Local Development
Department of Local Infrastructure Development and Agricultural Roads
Local Bridge Section

TRAIL BRIDGE PROGRAM SECTOR WIDE APPROACH

**Annual Programme and Budget
for
Fiscal Year 2073/2074 (2016/2017)**



Women taking fodder across the Mahakali river at Dokat in Darchula. Photo: Nabin Thagunna, NGO- Social Welfare Society- Darchula

Aswin, 2073 (October, 2016)

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BASIC INFORMATION

Country	Nepal
Project Name	Trail Bridge Sub Sector Programme (TBSSP-IV) under Sector Wide Approach
Sector	Local Infrastructure
Sub-Sector	Trail Bridge
Implementing Agency	TBSSP-IV is implemented by the Government of Nepal. HELVETAS Swiss Intercooperation on behalf of SDC provides Technical Assistance to the programme through the Trail Bridge Support Unit
Agreement Phase IV	Bi-lateral Agreement between the Governments of Nepal (GoN) and Switzerland was signed on 25 th November 2014 for the provision of Technical Assistance for TBSSP, Phase IV (2014 – 2019).
Project Goal	Contribute towards poverty reduction through improvement of access for local people (particularly disadvantaged groups) to basic social public services, economic resources and opportunities by availing river crossing facilities within 1 hour detour.
Outcomes	<u>Outcome 1:</u> Local communities, especially the disadvantaged groups construct and maintain trail bridges to improve safe access to basic services (health, education), market, farms and employment opportunities at local level
	<u>Outcome 2:</u> Government of Nepal, MoFALD/DoLIDAR further designs and foster implementation of Trail Bridge Strategy (TBS) auxiliary to the Local Infrastructure Development Policy (LIDP) by the local bodies and communities in construction and maintenance of trail bridges
Phase Targets	Routine Maintenance : 32,500 bridges (cumulative-5 years) Major Maintenance : 800bridges New Construction : 2,500bridges
Outcome Targets FY 2073/2074	Targeted Beneficiaries : 874,500 people (50% DAGs) Targeted Employment Generation : 11,66,000 person-days (50% DAGs) Women representation in User Committees : At least 40% Executive positions to Discriminated groups in User Committees : At least one position in all User Committees
Output Targets FY 2073/2074	Routine Maintenance : 6,268 bridges Major Maintenance : 280 bridges New Construction : 583 bridges
Budget FY 2073/2074	NRs. 3,47,70,44,000

STRATEGIC REVIEW AND OUTLOOK

The Trail Bridge Sub-Sector Programme (TBSSP) is led by the Government of Nepal. The programme covers all 75 districts of Nepal and is being implemented under Trail Bridge Strategy 2062.

Presently the sub-sector is in operation under SWAp Framework-II (2014-2019). This report presents the programme targets and budget for the third year of implementation of TB SWAp Framework-II.

At the beginning, the report discusses briefly about the political scenario and its possible impact over TBSSP. These include, the formation of a new coalition government in August 2016, which faces some significant challenges. Chief amongst which is the mandate to hold central, provincial and local elections. The possibility of agitations by various parties if the Constitution is not amended as per their demand also exists.

Nevertheless, the experiences and learnings of the previous year demonstrate that despite unfavorable environments (such as the struggle to revive from the devastating earthquakes; acute shortages of fuel and materials due to the border blockades; floods/landslides), several planned outcomes were achieved significantly, such as the completion of 422 bridges, which was a landmark within TBSSP. These proved that the working strategies developed, such as contingency plans, to cope with the situation was successful and shall be applied as per the context in this upcoming fiscal year.

The second part of the report discusses the outcomes expected from TB SWAP-II operation. In the same section, the report discusses the transversal themes as well as Safety and Security concerns of the programme. It is followed by discussions on targets for FY 2073/2074 in the third section. This includes the routine maintenance of 6,268 bridges, major maintenance of 280 bridges and the new construction of 583 bridges. The replacement of tuins by trail bridges has also been prioritized ahead of regular planning for the fiscal year. Altogether, the trail bridge programme shall benefit 0.8 million people and over 1.1 million person-days of employment shall be generated at the local level.

In addition, other significant outputs include Technical Capacity Building Training events organized to benefit 30 Assistant Sub-Engineers for Trail Bridge (35 days) course, Refresher technical training to benefit 76 Assistant Sub-Engineers from the partner NGOs, Demonstrative Model Bridge Training to 600 persons from Users Committee and beneficiary community, and Routine Maintenance training to 900 Bridge Wardens. Likewise, Social Mobilization Refresher Workshop will be organized for 58 Social Mobilizers and NGO Board members and Community Leadership Trainings to 100 women Users Committee members.

The fourth part of the report highlights project management and financial resources. A brief introduction to the Steering Committee (SC) is also provided. After which, it provides information on technical audit provisions and TB SWAp Accounts. The report also includes details of technical assistance provisions and mechanism to deliver the technical service, together with quality monitoring frames that have been established for the programme.

It is followed by the budget requirement for the FY 2073/2074. The projection is NRs. 3,47,70,44,000; with expected contributions from GoN (91%), SDC (7%) and ADB/DRILP-AF (2%).

The final part of the report consists of lessons learnt and priorities that shall affect programme implementation. They include:

1. Prioritization of Tuin replacement, rehabilitation and reconstruction of earthquake and flood damaged bridges
2. Accompanied support and capacity building initiatives of TBSU/HELVETAS with Regional Technical Assistance Provider (RTAPs) have very positive outcomes. Hence, this clearly suggests for the continuation for FY 2073/2074, as envisaged in the SWAp Framework-II.
3. Online bridge database shall be the basis of MM/Rehab planning and implementation.
4. Strengthening of routine maintenance by re-activation of Bridge Wardens and the aggressive implementation of Routine Maintenance Trainings (RMT) shall be undertaken.
5. Need to address delays in steel parts fabrication and transportation to districts, particularly to the Karnali districts, which have adverse impact on timely programme progress.

Finally, Annexures are provided, as appropriate to give further details and to evidence the outcomes, outputs and policy provisions.

1. INTRODUCTION

The Trail Bridge Sub-Sector Programme (TBSSP) is a government-led programme guided by the Trail Bridge Strategy, 2062 and the Trail Bridge Directives, 2066. It covers all 75 districts. The sub-sector is currently being implemented under TB SWAp Framework-II (2014-2019). The goal of TB SWAp Framework-II is to contribute towards poverty alleviation through improved access for local people (particularly women, Dalits, and people belonging to ethnic communities, disadvantaged and underprivileged groups) to social, basic services, economic resources and opportunities by availing river crossing facilities within 1 hour detour. This report covers the third year of implementation.

The Ministry of Federal Affairs and Local Development/ Department of Local Infrastructure Development and Agriculture Roads (MoFALD/DoLIDAR) is responsible for overall implementation and monitoring, including policy formulation and enforcement, and procurement of steel wire ropes and bulldog grips, amongst others. From the center, DoLIDAR provides conditional grants to District Development Committees (DDCs), based on the bridge demands that have been approved by the DDC councils. Once approved, the DDC is responsible for implementation, monitoring, operation and maintenance, through User Committees for Short Span Trail Bridges (SSTBs) and through the private sector for Long Span Trail Bridges (LSTBs).

On behalf of the Swiss Agency for Development and Cooperation (SDC), Technical Assistance (TA) at the center is provided by Trail Bridge Support Unit/HELVETAS Swiss Intercooperation (hereafter referred to as TBSU/HELVETAS). At the regional level, TA is being implemented by Regional Technical Assistance Providers (RTAPs) composed of NGOs/private consulting firms, through joint ventures. For these districts, TBSU/HELVETAS provides back support to RTAPs through 'accompanied capacity building'. While direct TA support is provided by TBSU/HELVETAS to Terai and Karnali region districts through two Special Focus Units (SFUs) in Bardibas and Surkhet.

Costs for materials and construction are allocated by the GoN and Development Partners, such as the Asian Development Bank. In addition trail bridges are also constructed by the Remote Area Development Committee through government funds and by the Kadoorie Agricultural Aid Association – British Gurkhas Nepal. Meanwhile, LSTBs that are more than 350 m (for Suspended type) and 280 m (Suspension type), complex in design, along international boundaries and strategic locations, shall be constructed by the Suspension Bridge Division/DoLIDAR.

Implications of Political and Socio-economic context on TBSSP

A new coalition government was formed in August 2016 with a mandate to hold central, provincial and local elections by January 2018, as per the schedule mention in the Constitution. This represents a significant challenge given the past history of unstable governments and calls for amendments by various ethnic groups, which has the potential to lead to street agitations and *Bandhs*. The impact that these factors will have on the trial bridge programme are mixed. The creation of federal provinces will undoubtedly lead to new institutional structures for the implementation of TBSSP. However, it is only after the elections that the picture will become clearer. Till then, the changing contexts and developing scenarios will be closely monitored. Already internal exercises have been initiated to be ready to address the changed context after State re-structuring. In the meantime, the focus of the trail bridge programme will continue to be directed towards capacitating DDCs/DTOs and NGOs to implement TB SWAp Framework-II.

According to the Post-Disaster Needs Assessment (PDNA) prepared by GoN and Development partners, the devastating earthquakes that occurred in April and May 2015, damaged 91 trial bridges. Bridge inspections later verified that only 68 needed major maintenance, rehabilitation or re-construction. These bridges were prioritized for in FY 2072/073, with 52 completed. The remaining bridges will receive priority for completion during this fiscal year. For this undertaking, GoN and SDC has provisioned funds of NRs 100 million and CHF 1 million respectively.

Every year, monsoonal rains trigger floods and landslides throughout the country, which damage roads and bridges. In 2016, 36 trail bridges were also damaged by floods and landslides in fourteen districts resulting in disruptions in mobility and transportation of people and goods. These damaged bridges, along with those damaged in 2014 and 2015 have also been prioritized for the upcoming fiscal year for major maintenance/rehabilitation and re-construction.

During the last fiscal year, the government had announced that all Tuins would be replaced with trail bridges within the next two years. After conducting extensive feasibility studies throughout the country, 134 Tuins were identified to be replaced (from an initial list of 171). The constructions of these bridges were prioritized in FY 2072/2073, with 10 completed. In this fiscal year as well the replacement of the remaining Tuins shall be prioritized and completed.

2. EXPECTED OUTCOMES

Outcome 1: Local communities, especially the Disadvantaged groups use trail bridges to improve safe access to basic services (health, education, markets, farms and employment opportunities) at local level.

During this third year of implementing Framework-II, it is expected that 0.8 million people will be provided with safer and improved access to basic facilities and employment opportunities; amongst which 50% will belong to disadvantaged groups. This will lead to increased school attendance and a rise in the number of patients seeking treatment by 10%. New shops/markets will also emerge at 20% of the newly constructed bridge sites.

Furthermore, it is expected that 1.1 million person-days of local employment will be generated at the local level, with 50% of the generated employment going to disadvantaged groups. Please refer to Annex-III for further details on the expected Outcomes.

Outcome 2: Government of Nepal, represented by MoFALD/DoLIDAR enforces Trail Bridge Strategy (TBS)/Local Infrastructure Development Policy (LIDP) in construction and maintenance of trail bridges.

All trail bridges, irrespective of funding and/or implementing agency including centrally implemented LSTB bridges shall be incorporated in DDCs annual plan. Trail bridge construction plan, data and Information will be included in the annual plan of the local bodies including LSTB implemented by the Center. A letter to this effect will be issued by the DoLIDAR.

Local Bridge Section (LBS), with dedicated staff for trail bridges, have been established in all 75 DTOs. However, not all the LBSs have sufficient staff of at least one trained engineer and one sub-engineer/ assistant sub-engineer. A standard list of qualified engineering consulting firms, fabricators and contractors shall continue to be periodically updated by DoLIDAR. List of cement brands that will pass quality test, will be uploaded/ updated on the website along with the reference rates of construction materials as well as per metre costs of bridges.

All bridge building agencies including DDCs/DTOs will continue to abide by TBS/LIDP and adhere to prioritization criteria, norms, standards, technologies and demarcation convention. A quality inspection shall be carried out at all bridges built to ensure safety of lives and goods passing through the bridges. Monitoring at different stages of trail bridge construction will ensure that they conform to quality standards. Load tests shall be carried out at 6 bridge sites. Quality tests of construction materials shall also be carried out. DoLIDAR/LBS shall carry random monitoring and inspection of at least 10 bridges. At least 2 constructed bridges will be given aesthetic look through beautification in the central and western regions along trekking routes and potential tourist sites.

As per the directives of the TB SWAp Framework-II, a Local Bridge Directorate (LBD) has been provisioned to be established by restructuring the Local Bridge Section and Suspension Bridge Division and drawing human resources from the Remote Area Development Committee. An Organization and Management survey of DoLIDAR was conducted in October 2015 to provide directions, including the development of its mandate, structure, and outputs, as envisioned in TB SWAp Framework-II. However, due to the State re-structuring processes that are currently underway, this re-structuring has not become a priority.

Meanwhile, the existing practice of close collaboration between LBS/DoLIDAR and TBSU shall continue. LBS/DoLIDAR, with support from TBSU shall monitor the application of TB Strategy and its core manuals.

Transversal Themes

User Committees (UCs) shall be formed inclusively. Each user committee shall be formed proportionately representative of the beneficiary population with at least 40% representation of women and a key position (Chairperson, Secretary, Treasurer) held by an individual from a discriminated group.

Public Hearings and Audits shall be carried out in all the bridges built under community approach. Equal pay for equal work shall be practiced at all sites and the workforce shall be paid within 15 days after UC receives funds from DDC/VDC. The basis for reporting shall continue to be the

Project Books, which are maintained at the sites. These issues will be taken up in the planning and review meetings with RTAPs, DDCs/DTOs and NGOs. Please refer to Annex – III for further details.

Safety and Security

Insurance shall be procured for the trail bridge workforce by the respective DDCs before commencement of construction works at all the bridge sites. The insurance policies shall cover medical treatment, disabilities and death. Use of safety gears by workers are mandatory and shall be provided by the DDCs.

3. EXPECTED OUTPUTS

Summary of the output target for the FY 2073/2074 is given in the table below:

Outputs	Phase Target (2071/072 - 2075/076)	Achievements till FY 2072/073	Target for FY 2073/074
Routine Maintenance	6,500 bridges annually	9,544 bridges	6,268 bridges
Major Maintenance	800 bridges	361 bridges	280 bridges
New Construction (completion)	2,500 brides	764 bridges	583 bridges
TB course (35 days) for Engineers	25 persons	28 persons	-
TB course (35 days) for Sub-Engineers	25 persons	-	-
TB course (35 days) Asst. Sub-Engineers	30 persons	80 persons	30 persons
Refresher Technical Course for Engineers	60 persons	-	-
Refresher Technical Course for Sub Engineers	100 persons	34 person	-
Refresher Technical Course for Asst. Sub-Engineers (NGOs)	120 persons	80 persons	96 persons
Demonstrative Model Bridge Trainings for Bridge Crafts persons	5,000 persons	898 persons	600 persons
Routine Maintenance Training for Bridge Wardens	4,000 persons	1,316 persons	900 persons
Social Mobilization Refresher workshop	-	101 persons	78 persons
Community Leadership Training for Women UC members	-	156 persons	100 persons
Load testing of 2% sample new bridges	50 bridges	10 bridges	6 bridges
Third party investigation of trail bridges	10	-	2
Lab test of construction materials	1,900 bridges	853 bridges	400 bridges
Baselines, Post Bridge Building Assessment, Case studies	5	5	3
Modular Course for Asst. Sub - Engineer	-	-	40 persons
Appreciative Leadership and Organizational Development	-	-	5 persons
SAP 2000 Training	-	-	10 persons

Note: Social Mobilization Refresher workshop and Refresher Technical Course for Asst. Sub-Engineers (NGOs) shall be organized jointly for time and cost effectiveness.

3.1. Maintenance and Construction of Trail Bridges

Routine Maintenance

Strengthening of routine maintenance (RM) of trail bridges is a priority of TB SWAp Framework-II and shall be continued during FY 2073/2074.

As per the Trail Bridge Strategy 2006, DDCs are to ensure that the RM of all the bridges are conducted and monitored by anchoring routine maintenance at the VDCs. During FY 2073/2074, RM shall be aggressively implemented by re-activating Bridge Wardens (where there are none, or to re-appoint new ones, where they are not functional) and conducting Routine Maintenance Trainings (RMTs). The target is to provide RMTs for 900 BWs throughout the country. Rosters of the Bridge Wardens shall be updated by the end of FY 2073/2074. The names along with their telephone numbers shall also be included into the online Bridge Database system so that more effective monitoring can be undertaken. Orientating and sensitizing VDC secretaries on the importance of RM has also led to improved maintenance. Hence, these activities shall also be continued.

During the previous fiscal year, advance bi-yearly payments to BWs had been piloted in a few districts. Early indication through field visits has shown that it has been effective. Hence, these shall be expanded to other districts to assess whether it is an effective approach. Furthermore, Bridge Warden days shall be celebrated at a few piloted sites to raise awareness amongst local communities and to also gather locals to clean the area around the bridge sites. If this is proved to be effective, then such types of events shall be rolled out to other bridges in other districts.

A budget of NRs 37.062 million has been proposed under GoN funding for the routine maintenance of 6,268 trail bridges. Please refer to Annex V for district-wise details of the RM plan.

Rehabilitation, Major Maintenance and Reconstruction

Rehabilitation (Rehab), Major Maintenance (MM) and Reconstruction, especially of earthquake and flood/landslide damaged trail bridges, have been prioritised for this fiscal year.

Amongst the 68 bridges that were listed as being damaged by the earthquake, 52 were completed in the last fiscal year. As such the completion of the remaining damaged bridges shall be prioritised for this FY 2073/74. Please refer to Annex IX for the list of earthquake damaged bridges and their status. For this undertaking, the GoN and SDC had provisioned funds of NRs 100 million and CHF 1 million respectively in the last fiscal year.



Jhangrali Trail Bridge (Dolakha) damaged by the earthquake under reconstruction



Khyanjo Trail Bridge (Rasuwa) damaged by the earthquake under reconstruction



Ghatgaun Trail Bridge (Surkhet) damaged by floods in 2014 under reconstruction

Likewise, in FY 2071/2072, a total of 42 bridges were damaged by floods/landslides in Taplejung, Sankhuwasabha, Khotang, Okhlahunga and Illam. In the last fiscal year, 3 bridges (in Khotang, Okhlahunga, Illam) were completed and the remaining 39 are at various stages of reconstruction. These bridges shall be completed by the end of this FY 2073/2074. Please refer to Annex VII for further details.

In addition, 23 bridges were also damaged by floods in FY 2070/2071 in Surkhet, Dang, Banke, Bhojpur, Bardiya and Sindhupalchok. Amongst these bridges 12 needed to be re-constructed and 11 needed major maintenance. By the end of the last fiscal year, 4 bridges were reconstructed while 8 bridges underwent major maintenance. For this FY 2073/2074, the remaining bridges shall be prioritized for completion. For this undertaking as well, the GoN and SDC had provisioned NRs 100 million each in the last fiscal year. For further details please refer to Annex-VI.

From this fiscal year onwards, the online bridge database will be the basis for major maintenance and rehabilitation planning and implementation. This will significantly reduce the ad-hoc maintenance planning and implementation of the past. Planning and implementation will furthermore follow the trail bridge project cycle similar to new-construction. Steps shall also be initiated to establish the database within LBS/DoLIDAR by the end of FY 2073/2074.

For the FY 2073/2074, altogether 280 bridges have been planned for major maintenance and rehabilitation. A budget of NRs 127.643 million for the major maintenance and rehabilitation of the bridges have been allocated by the government for this fiscal year 2073/2074.

New Construction

A total of 583 trail bridges for new construction have been targeted for the FY 2073/2074.

During FY 2073/2074, through GoN District funds 428 ongoing bridges will be carried over from fiscal year 2072/2073 with 623 new bridges planned. Amongst the newly planned bridges, Community Agreements will be established for 562 bridges. Thus there will be a total of 1,051 bridges under construction. A budget of NRs 1,210.092 million has been allocated by the GoN as district grants for this undertaking.

In addition, through GoN central funds, 110 bridges (66 carry over and 44 new bridges) shall be taken up by the SBD/DoLIDAR. Out of which 41 are planned to be completed, with the priority on the completion of carryover bridges over new planning.

RADC through GoN district funds will also support 135 underconstruction bridges, with 22 expected to be completed by the end of the fiscal year. Here to, the priority shall be on the completion of carry over bridges over new planning.

DRILP-AF will also support the construction of 36 carry over bridges in eight districts (Taplejung, Okhaldhunga, Ramechhap, Gorkha, Lamjung, Myagdi, Baglung and Baitadi), which must be completed by December 2016 as the project will be closed by the end of the date.

A further 20 bridges are also expected to be completed by KAAA-BGN within the fiscal year.

Please refer to Annex-V for further details.

Replacement of Tuins

The replacement of Tuins by Trail Bridges has also been prioritized for FY 2073/2074. Altogether 134 Tuins¹, from the original list of 171, were identified for replacement after feasibility studies in the last fiscal year. Out of which, 6 were completed by SBD/DoLIDAR and 4 by DDCs through the support of LBS/DoLIDAR and TBSU/HELVETAS. In the upcoming FY 2073/2074, the remaining Tuins shall be replaced by the DDCs and SBD/DoLIDAR. For this undertaking the criteria as mentioned in the Trail Bridge Directives 2066, shall be adhered.

A budget of NRs 200 million has been specifically allocated for this activity. Please refer to Annex IX for the list of Tuins to be replaced by the DDCs and Annex X for the Tuins being replaced by SBD/DoLIDAR.

3.2. Enhanced Capacity at the Local and Central Levels

A number of courses will be organized at various levels to capacitate the central and local bodies within the trail bridge sub-sector.

¹ 38 tuins were later identified for replacement and added to the initial 96 tuins after the feasibility studies were conducted.

A modular course on Diploma in Bridge Engineering shall be initiated for 40 Assistant Sub-Engineer of the NGOs, DDC/DTOs and private firms in this fiscal year. The taught course will be for 4 years duration, during which every year there will be 3 months for “theory input” including exams and 9 months of the “field work” as practical in bridge related projects.

Trail Bridge courses for 30 Assistant Sub-Engineers shall be conducted by Educational Institutions (EIs). Refreshers courses on Technical matters will also be provided for 56 each Assistant Sub-Engineers. While 70 persons from partner NGOs will be provided with refreshers course on Social Organizational Support.

Community leadership trainings will also be organized for women UC members in order to encourage and enhance their involvement in the UCs during the bridge construction process. Demonstration Model Bridge Trainings will be provided to 600 persons, which will include UC members and bridge crafts persons. Similarly Routine Maintenance Trainings (RMT) shall be conducted for 900 bridge wardens.

Trainings on Auto cad for NGO personnel (30 persons), Designing of Pile Foundation using SAP 2000 (12 persons), Appreciative Leadership and Organization development training for SWAp Facilitation Managers (6 persons) and Presentation skills for TBSU staff (15 persons) shall also be conducted.

Performance assessments of the RTAPs shall also be continued in this FY 2073/2074. The findings from last year indicated that ‘accompanied capacity building’ by situating TBSU/HELVETAS staff with RTAPs had helped in building RTAP staff’s understanding and smoothen implementation, especially when there were high turnovers of RTAP staff. These assessments are also useful to identify gaps, areas for improvement and the development of action plans for future capacity building.

3.3. Research and Development (R&D)

DoLIDAR is keen to test and promote the Research and Development of new ideas and gain enough data and experiences to draw conclusions. In this fiscal year the focus will be on:

- Consolidation and standardization of Pile Foundation in Terai
- Applicability of low cost river protection works at immediate upstream of bridges in Terai
- Review standard design in view of earthquake resilience.

The findings and outcomes of R&D activities shall be reviewed by the Technical Committee established in DoLIDAR. TBSU/HELVETAS shall provide technical support for the verification of facts and data to validate the findings and draw conclusion for the replication in the future.

3.4. District Bridge Record (DBR)

It is important for DDC/DTOs to maintain and update District Bridge Records (DBRs) for planning and implementation of bridge maintenance. These records consist of bridge names along with Bridge Condition Investigations (BCIs) which provide the status of the bridges and are therefore crucial to flag up risky and dangerous bridges that need immediate action as well as to plan for periodic maintenance for other bridges. Planning and monitoring is done based on the ‘Guidelines for the Maintenance of Trail Bridges’.

DoLIDAR and TBSU/HELVETAS shall continue to encourage DDC/DTOs to maintain and update the DBRs with bridge conditions. This shall apply to all districts.

By the end of the last fiscal year, the DBRs of 65 districts were updated. The remaining DBRs of the remaining bridges in a few districts shall be prioritised and completed in this fiscal year. Planning and implementation of major maintenance and rehabilitation shall be based on the online database.

In addition, amendments of guidelines to include trail bridges in the District Transport Master Plans (DTMPs) shall also be initiated by LBS/DoLIDAR to ensure effective planning and utilisation of available resources. However, this plan is very much contingent to the upcoming federal demarcations.

3.5. Updating of Prospective Bridge List (Long List)

Steps had been initiated in the last fiscal year to update the prospective bridge list (Long List) in order to address the expansion of road networks and changing settlement patterns; which may have

led to the prospective bridges identified in 2009 Long List to be no longer relevant or new demands needed as per the one hour detour criteria in the Trail Bridge Strategy.

However, the State re-structuring that is being proposed, as per the creation of federal provinces and Village/Municipality councils, could potentially lead to further changes in bridge needs and demands as most of the strategic locations of the administrative and basic service centres will undoubtedly be re-located. As a consequence, bridge demands may again change and will have to be re-assessed as per the Trail Bridge Strategy criteria.

The current Long List shall therefore be continued until state re-structuring occurs. At which point it shall be updated as per the changing context after the creation of the federal provinces and Village/Municipality Councils.

3.6. Procurement

District Development Committees shall procure fabricated steel parts through e-bidding as per the GoN's procurement rules and regulations and by using the standard bidding documents. Procurement of wire ropes and bulldog grips shall be initiated by DoLIDAR through international competitive bidding. TBSU/HELVETAS shall provide TA to ensure that the wire ropes and bulldog grips conform to the required standards. A budget of NRs. 145 million has been proposed for the procurement of cables and NRs 15 million for bulldog grips.

4. FINANCES AND MANAGEMENT

4.1. Project Management

Steering Committee Meeting (SC)

Ministry of Federal Affairs and Local Development (MoFALD) has constituted a Steering Committee at the central level to review progress, resolve policy issues and guide DoLIDAR. The Steering Committee will meet as necessary, but not less than once a year.

In the past few years, the Steering Committee has also endorsed the Annual Project Report (APR) and the Annual Programme and Budget (APB). These are activities that come under the jurisdiction of the Trail Bridge SWAp Coordination Committee (TBSCC). However for pragmatic reasons and expediency, the practice has been to use the Steering Committee meeting to endorse these reports along with the need to assess TB SWAp progress, delegate authorities at the operational level and identify constraints in implementation and determine corrective measures where necessary. During this FY 2073/2074, the Steering Committee has been planned in December 2016.

The annual performance review of district trail bridge program shall also be incorporated in the annual review program of MoFALD. Meanwhile, a Technical Review Mission will be organized in March 2017.

Technical Audit

DoLIDAR shall request the National Vigilance Centre (NVC) to conduct third party technical audit of a sample of trail bridges completed in FY 2072/2073 for independent monitoring. DoLIDAR will provide the required funds to the NVC for technical audit.

Audit of TB SWAp Accounts

Office of Auditor General (OAG) shall audit the accounts of TB SWAp at the centre and districts as per the prevailing laws and practices. At the centre, LBS/DoLIDAR shall provide the required information and updates on TB SWAp. At the districts, DDC/DTOs shall be responsible for providing all required support and logistic support for the audits of accounts.

Technical Assistance

TBSU/HELVETAS on behalf of SDC will continue to provide Technical Assistance of stakeholders at all levels for TB SWAp. The major areas of TA shall include quality monitoring, capacity enhancement, updating of the Programme Monitoring Information System (PMIS) and Trail Bridge Strategy Information System (TBSIS), establishing and updating District Bridge Records, material support and promoting social inclusion and good governance.

At the regional level, TBSU/HELVETAS will continue to provide back-stopping support to RTAPs for the implementation of TA at the regional and district levels. Likewise, supporting DoLIDAR for building capacity of central and local government, NGOs, Educational Institutes and the Private Sector; managing information; monitoring application of Trail Bridge Strategy; research and development on bridge technology and approach, and review/update of norms and standards shall fall under TA responsibilities of TBSU/HELVETAS.

Meanwhile, regional stores for wire ropes and bulldog grips, which are being jointly managed by DoLIDAR and TBSU/HELVETAS, will gradually come under full control of the DoLIDAR by 2019.

Quality Monitoring

During FY 2073/2074, there will be over 1,026 trail bridges under construction, at different stages of implementation. These bridges shall be continuously monitored, from planning to completion, through the existing well-established and robust monitoring systems. The prime responsibility of supervision and monitoring shall lie with DDCs/DTOs. TBSU/HELVETAS as a TA provider will provide support to LBS/DoLIDAR and RTAPs for monitoring quality of works and private sector for quality assurance. Furthermore, RTAPs shall provide TA to DDCs/DTOs, including district NGOs for monitoring quality of works and galvanization.

For monitoring purposes, the project cycle is divided into ten milestones that are further grouped as ordinary and critical. DDCs/DTOs are to monitor all ten milestones, whereas RTAPs and TBSU/HELVETAS are to monitor during critical milestones by making field visits. In case of ordinary milestones as well, RTAPs and TBSU / HELVETAS will make field visits where the districts require further support (such as the Karnali districts). Sample of raw materials are collected from fabricators and tested at reliable labs. Fabricators are to commence production only after the samples of raw steel passes the specified tests. Quality of fabricated steel parts is to be thoroughly checked after the completion of fabrication works.

In addition, information related to quality monitoring, based on the Comprehensive Manual for Monitoring and adherence to the Trail Bridge Strategy, shall be recorded and monitored through TBSIS.

Quality Control

Cement quality available in the market is tested through material testing laboratories every year. After which, those that meet the quality standards are published on the official Nepal trail bridge website.

Similarly, wire ropes and bulldog grips are also inspected and certified by third parties, who have been appointed by TBSU/HELVETAS, during pre-dispatch and also post-delivery.

4.2. Financial Resources

A total budget of NRs 3,477.044 million, including TA support provided by SDC, is required for FY 2073/2074 to achieve the set Tb SWAp targets. The expected contributions are as follows:

Expected contributions	NRs (in millions)
GoN	3,179.794
SDC	250.000
Total	3,429.794
ADB/DRILP-AF	47.250
GRAND TOTAL	3,477.044

A budget of NRs 37.062 million has been proposed for Routine Maintenance and NRs 127.634 million for Major Maintenance. NR 1,045.396 million has also been earmarked for New Construction (district). In addition, NRs 200 million has also been allocated for the replacement of Tuins.

Budget provision of NRs 500.000 million has also been provisioned for centrally implemented SBD/DoLIDAR bridges. A budget of NRs 13.801 million are also proposed for recurrent expenses of both SBD/ DoLIDAR and LBS/DoLIDAR.

Of the Government budget, 35% shall be utilized at the centre, while 75% shall be spent at the district levels. At the centre, expenses shall include the procurement of wire ropes and costs of bridges built through Suspension Bridge Division.

A budget of NRs 47.250 million is also expected to be available from DRILP-AF for the completion of 36 bridges in 8 districts.

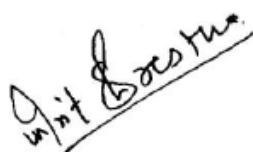
Technical assistance shall be provided by SDC through TBSU/HELVETAS Swiss Intercooperation. The budget for the TA is NRs 250 million.

Refer to Annex II for the budget proposed for the FY 2073/2074.

5. ISSUES AND LESSONS

- Replacement of Tuins and the re-construction and rehabilitation of remaining trail bridges damaged by the earthquakes and floods are the top most priority ahead of new planning/new construction for the FY 2073/2074.
- In order to achieve the targets, the provision and early authorization of the budget will be essential for ensuring fast implementation.
- The internalization of the importance of routine maintenance by DDC/DTOs and local communities is very important for the sustainability of the trail bridges and will therefore be focused upon during this fiscal year.
- Delays by the fabricators to supply steel parts have been an on-going problem over the past couple of years within TBSSP, resulting in the overall delays in trail bridge implementation throughout the country. The chief reason for these delays is due to the awarding of contracts to limited Fabricators as per the prevailing procurement rules & regulations, which awards the jobs for the lowest bidder, without looking at the number of bridges that the Fabricators already have at hand. In 2015, the Trail Bridge Steering Committee had instructed to form a central committee comprised of Government and Development partners to help resolve this issue, which shall be followed up in the upcoming fiscal year.
- The transportation of materials in the Karnali region represents a challenge. There are currently two routes – road transportation via Tibet/China and through air-lifting from Nepalgunj. The former approach requires the need to adhere to diplomatic channels while there are numerous delays (especially during the tourist season) with the commercial flights for the latter. For the alternative route (via Tibet/China), transportation needs and appropriate channels need to be explored by the Government (at various levels) rather than the past experiences of ad hoc implementation.

On behalf of LBS / DoLIDAR



Amrit K Shrestha

Section Chief
Local Bridge Section
Department of Local Infrastructure Development and Agricultural Roads

October 2016

Annex - I:

Trail Bridge SWAp Log Frame

Trail Bridge Sector Wide Approach Logical Framework 2014-2019

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Assumptions
Goal: Contribute to poverty alleviation through improved access of the local people (particularly women, Dalits and people belonging to ethnic communities and disadvantaged and under privileged groups) to social and basic services and economic resources and opportunities	River crossing facility is available to local people within 1 hour detour.	<ul style="list-style-type: none"> Trail Bridge Strategy Information System (TBSIS) Report Impact Monitoring Report 	
Outcome 1: Local communities, especially the Disadvantaged groups use trail bridges to improve safe access to basic services (health, education, markets, farms and employment opportunities) at local level	1.1. 3.75 million people (including 1.8 million Disadvantaged Groups) have a safe river crossing facility 1.2. School attendance and visit to health centres increased by 10% respectively as compared to baseline data of July 2014. 1.3. New marketing centres developed / including growth of existing market centres at 20% of bridge sites 1.4. A total of 5.0 million person days of employment opportunities created at local level out of which 50% goes to DAGs 1.5. At least 40% women are represented in Users' Committees with proportionate representation of marginalized groups including at least one member in executive position	<ul style="list-style-type: none"> Community Application Form Post Bridge Building Assessment Trail Bridge Strategy Information System (TBSIS) Report Case Study Reports Outcome Monitoring Report 	<ul style="list-style-type: none"> Trail bridge program and resources are devolved from the centre to the local bodies Required funds are available from the development partners and the GoN Private sector and service providers are available and willing to participate in trail bridge building Technical assistance is available for the period 2014-2019 Mutual understanding reached among central agencies and DDCs that constructing road bridge might not be feasible for next 5 years in the place where trail bridges will be constructed in this phase

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Assumptions
<p>Outcome 2: Government of Nepal, represented by MoFALD / DoLIDAR enforces Trail Bridge Strategy (TBS/LIDP) in construction and maintenance of trail bridges.</p>	<p>2.1. LBD created with merger of SBD within restructured DoLIDAR and functional by December 2015</p> <p>2.2. All trail bridge s are incorporated in local bodies annual plan including centrally implemented Trail Bridges</p> <p>2.3. Public hearing is conducted at all bridge sites and public audit is conducted in all SSTB bridges</p> <p>2.4. Trail bridge norms, standards, technologies and demarcation convention are adhered to by all DDCs and all other bridge building agencies</p> <p>2.5. 100% of the supervised/inspected bridges in the country adhere to the norms, standards and quality requirements.</p> <p>2.6. All DDCs and bridge building agencies adhere to the prescribed prioritization formula and criteria</p>	<ul style="list-style-type: none"> • Project Book • Monitoring and Inspection Reports • TBSIS Report • Annual Project Report • PMIS Report • PBBA Report 	

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Activities
Outcome 1: Local communities, especially the Disadvantaged groups use trail bridges to improve safe access to basic services (health, education market, farms and employment opportunities) at local level...			
Output 1: Local communities construct and maintain trail bridges with the support DDCs.	1.1. Construction of 2,500 bridges by the end of the phase 1.2. Routine maintenance (RM) of 6,500 bridges annually (cumulative 32,500 bridges in 5 years) 1.3. Major Maintenance of 800 bridges (including rehabilitation) 1.4. Bridges beyond 250 metres only constructed by LBD from August 2014 1.5. LBD starts LSTB bridge construction through DDC/DTO by December 2014.	<ul style="list-style-type: none"> • Work Completion certificates • DDCs' Annual Report • PMIS 	<ul style="list-style-type: none"> • Prepare DDCs periodic plan and DDC/DTO annual plan • Insert/ locate constructed and planned bridges in DTMP • Conduct baseline survey • Collect and compile bridge further demands from across the districts • Prioritize new demands • Prepare Procurement Plan of DDC/DTO • Construct bridges in order of priority • Procure wire ropes and bulldog grips from the centre • Procure construction materials (except wire ropes, bulldog grips, and locally available materials) by DDC/DTO • Sign MOU with the Community to construct SSTB bridge • Hire NGOs to provide technical and social support to communities for SSTB bridge construction • 1.8 Construct LSTB bridges by DDCs through private sector on turnkey (lump sum) modality • Revive/ appoint BWs/BMCs for RM (DDCs through VDCs) • Monitor quality of constructed bridges through DTO • Monitor performance of RM through DDCs/VDCs • Update DBR at districts through DDC/DTO • Update NTBD at the centre • Prepare/update Trail Bridge Directory (trail bridge inventory) by DDC and National Trail Bridge Directory at the centre

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Activities
Output 2: Local bodies and local communities (including CBOs / NGOs and private sector) strengthen their capacity to implement trail bridge programme at local level	2.1 300 trained technical personnel available in 75 districts 2.2 All 75 DDCs have a delegation agreement with NGOs. 2.3 Consulting firms /NGOs are providing technical services at district level 2.4 25 fabricators are available to manufacturing steel parts as per standards 2.4 30 consultants are available to provide engineering services including monitoring and inspection 2.5 At least Trained engineer (1) and assist / sub-engineer (1) are assigned for trail bridge program in all districts 2.6 All 75 DDCs adhere to TBS/LIDP and its core Manuals as well as the guidelines specified therein 2.7 Web-based PMIS including for Maintenance functional by the end of 2016	<ul style="list-style-type: none"> • TBSIS Report • DDCs/DTOs Human Resource Monitoring Report • Bridge Site Visit / Monitoring Reports • Inspection Reports • Delegation Agreement between DDC and NGO 	<u>DDC/DTO level</u> <ul style="list-style-type: none"> • Make Local Bridge Section / Unit functional at DTO with technical personnel • Hire NGOs for providing technical and social support to communities • Outsource the required regional support to consulting firms / NGOs • Organize training courses for DDCs / DTOs personnel, UC, consultants including monitors and inspectors, NGOs personnel, fabricators and contractors • Monitor the services and reports of NGOs • Check and approve each bridge survey and design • Monitor construction works of each bridge and conduct quality test of construction materials • Inspect and issue Work Completion Certificate • Monitor timely payment and equal pay for equal work to workers from UCs • Provide construction materials and funds to UCs in time • Submit progress reports to DoLIDAR • Inspect bridges regularly and update District Bridge Record with bridge conditions

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Activities
Outcome 2: GoN represented by MoFALD / DoLIDAR enforces TBS/LIDP in construction and maintenance of trail bridges.			
Output 3: DoLIDAR enhanced its capacity to enforce TBS/LIDP.	<p>3.1 A Local Bridge Directorate exists by the end of 2014/015 with the merger of LBS and SBD</p> <p>3.2 The human resources at the Remote Areas Development Committee (RADC) are available at the disposal of the LBD</p> <p>3.3 A standard list of qualified fabricators, consultants, material manufacturers (cement) and contractors is available</p> <p>3.4 A national bridge inventory available</p> <p>3.5 Periodically updated reference rates for materials, per metre bridge costs are available in the web</p> <p>3.6 Technical audit and third party audit of at least 10 bridges are available every year</p> <p>3.7 Reports of random monitoring and inspection of at least 10 bridges by LBD is available every year</p>	<ul style="list-style-type: none"> • PMIS and TBSIS reports • Bridge site visit and inspection reports • Annual report • Prioritized bridge list 	<p><u>LBD/DoLIDAR level</u></p> <ul style="list-style-type: none"> • Establish LBD • Assess institutional capacity of DoLIDAR and LBD • Prepare and publish standard list of fabricators, consultants, material manufacturers (cement) and contractors • Carry out random monitoring and inspection at construction sites • Prepare web based GIS data map with bridge condition and flagging system • Carry out Impact Study of trail bridges • Review / update trail bridge policies and directives / manuals • Regularly maintain and update PMIS and TBSIS • Conduct technical audit and financial audit to ensure that observations are complied with • Carry out independent monitoring and inspection tasks through private sector • Monitor EIs training courses and its performances • Publish reference rates for materials • Publish per metre bridge rate • Prepare progress reports

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Activities
Output 4: Stakeholders at national level strengthen their capacity to select and use right technologies for trail bridge construction.	4.1 Suitable type of trail bridges for Terai districts designed and tested 4.2 Test reports on suitability of trail bridges for the use of two and three wheelers are available 4.3 At least 1% of the bridges constructed by the end of the phase have beautification component 4.4 Special provision for transportation to Karnali districts and very remote parts of other districts functional by Sept. 2015 4.5 TB festival organized every year (exhibition, bridge warden day etc.) 4.6 Demarcation of LSTB and SSTB on the span of 120 metres revisited to increase the application of the more cost effective SSTB bridges) 4.7 Implementation modality with community approach for LSTB is available	<ul style="list-style-type: none"> • Research Reports • Impact Study Reports • Manuals and Guidelines • Annual Progress Report 	<ul style="list-style-type: none"> • Carry out action-research on suitable type of trail bridges for Terai districts • Pilot more cost effective SSTB bridges beyond 120m • Introduce technological enhancement of gravity ropeway • Initiate alternative of river crossing • Review demarcation policy on application of SSTB and • LSTB based on action research and findings of piloting • Expand community approach for LSTB bridges • Review implementation modality of LSTB based on findings of action research and findings of piloting • Carry out different impact studies and assessments • Update manuals and guidelines based on lessons learned • Incorporate beautification of selected trail bridges • Pilot power-trailer suspension bridges • Implement technically challenging and multi-span trail bridges including those lying on international boundary

Inputs

- Budget of US \$ 96 million from the centre including development partners and GoN
- 8% contributions for bridge construction and maintenance from DDCs/ VDCs
- 2% contributions for bridge construction and maintenance from UCs
- TA is made available in the areas of technical, social and financial management
- TA team includes: 35 professional at centre and Regional TA is implemented by local private consulting firms / NGOs.

Annex-II:

Trail Bridge SWAp GoN Proposed Budget for FY 2073/2074 (2015/2016)

नेपाल सरकार
संघीय मामिला तथा स्थानीय विकास मन्त्रालय
स्थानीय पूर्वाधार विकास तथा कृषि सडक विभाग
भोलुङ्गे पुल क्षेत्रगत कार्यक्रम
आ.ब. २०७३/२०७४ को प्रस्तावित वार्षिक कार्यक्रम

व.शि.न. ३६५८०९									रु. ०००			
सि.न.	अख्तियारी पाउने कार्यालय	जिल्ला	भोलुङ्गे पुलक्षेत्रगत कार्यक्रम TB SWAp						जम्मा		कुल जम्मा	कैफियत
			नेपाल सरकार				वैदेशिक	कुल जम्मा	श्रोत			
									नेपाल सरकार	वैदेशिक		
क)	चालु खर्च											
अ)	जि.वि.स.सशर्त चालु अनुदान		नियमित मर्मत	बृहत मर्मत	नया र क्रमागत निर्माण	लट्टा तथा बुल्डग्रीप्स						
१	जिल्ला विकास समिति	ताप्लेजुङ्ग	९७८	२,६७९	१०,०५६			१३,७१३	१३,७१३		१३,७१३	
२	जिल्ला विकास समिति	पाँचथर	७१४	६००	११,१७९			१२,४९३	१२,४९३		१२,४९३	
३	जिल्ला विकास समिति	ईलाम	८३४	९००	८,९८५			१०,७१९	१०,७१९		१०,७१९	
४	जिल्ला विकास समिति	भुपा	६६		१२,३०३			१२,३६९	१२,३६९		१२,३६९	
५	जिल्ला विकास समिति	मोरङ	२४६	१,४००	११,६३६			१३,२८२	१३,२८२		१३,२८२	
६	जिल्ला विकास समिति	सुनसरी	१०२		१२,८७२			१२,९७४	१२,९७४		१२,९७४	
७	जिल्ला विकास समिति	धनकुटा	३००	३००	१०,७०२			११,३०२	११,३०२		११,३०२	
८	जिल्ला विकास समिति	तेह्रथुम	५८८	९५९	९,७३५			११,२८२	११,२८२		११,२८२	
९	जिल्ला विकास समिति	संखुवासभा	९००	१,०००	१८,७१३			२०,६१३	२०,६१३		२०,६१३	
१०	जिल्ला विकास समिति	भोजपुर	७३२	३,०६०	८,१११			११,९०३	११,९०३		११,९०३	
११	जिल्ला विकास समिति	सोलुखुम्बु	७९२	२,१९६	८,८८७			११,८७५	११,८७५		११,८७५	
१२	जिल्ला विकास समिति	खोटाङ्ग	९९६	२,५५०	८,१४९			११,६९५	११,६९५		११,६९५	
१३	जिल्ला विकास समिति	ओखलढुङ्गा	८८८	१,२३०	७,६३१			९,७४९	९,७४९		९,७४९	

Trail Bridge Sub-Sector Programme

Annual Programme& Budget FY 2073/2074

१४	जिल्ला विकास समिति	उदयपुर	३९०	१,३६०	१५,०३२			१६,७८२	१६,७८२		१६,७८२	
१५	जिल्ला विकास समिति	सिराहा	३०		१३,९७१			१४,००१	१४,००१		१४,००१	
१६	जिल्ला विकास समिति	सप्तरी	४८	८००	१२,७३९			१३,५८७	१३,५८७		१३,५८७	
१७	जिल्ला विकास समिति	धनुषा	३६		१५,२३१			१५,२६७	१५,२६७		१५,२६७	
१८	जिल्ला विकास समिति	महोत्तरी	२४	४००	१०,८५८			११,२८२	११,२८२		११,२८२	
१९	जिल्ला विकास समिति	सर्लाही	४२		११,३१७			११,३५९	११,३५९		११,३५९	
२०	जिल्ला विकास समिति	सिन्धुली	५४०	३,०००	१९,९८०			२३,५२०	२३,५२०		२३,५२०	
२१	जिल्ला विकास समिति	रामेछाप	८१०	२,०००	४,३०४			७,११४	७,११४		७,११४	
२२	जिल्ला विकास समिति	दोलखा	८७०	४,०००	८,८५२			१३,७२२	१३,७२२		१३,७२२	
२३	जिल्ला विकास समिति	सिन्धुपाल्चोक	५१०	४,०००	१०,१५६			१४,६६६	१४,६६६		१४,६६६	
२४	जिल्ला विकास समिति	काभ्रेपलान्चोक	६६०	२,०००	९,३५६			१२,०१६	१२,०१६		१२,०१६	
२५	जिल्ला विकास समिति	ललितपुर	२७६	२,०००	२३,८९४			२६,१७०	२६,१७०		२६,१७०	
२६	जिल्ला विकास समिति	भक्तपुर	७२	७००	६,६१७			७,३८९	७,३८९		७,३८९	
२७	जिल्ला विकास समिति	काठमाण्डौ	२०४	१,५००	६,१६७			७,८७१	७,८७१		७,८७१	
२८	जिल्ला विकास समिति	नुवाकोट	६९६	३,०००	९,६३४			१३,३३०	१३,३३०		१३,३३०	
२९	जिल्ला विकास समिति	रसुवा	४३८	४,५००	९,७१०			१४,६४८	१४,६४८		१४,६४८	
३०	जिल्ला विकास समिति	धादिङ्ग	६००	४,५००	२४,०३६			२९,१३६	२९,१३६		२९,१३६	
३१	जिल्ला विकास समिति	मकवानपुर	३२४	२,०००	१२,८३४			१५,१५८	१५,१५८		१५,१५८	
३२	जिल्ला विकास समिति	चितवन	३१८	२,५००	२५,०४५			२७,८६३	२७,८६३		२७,८६३	
३३	जिल्ला विकास समिति	बारा	२४		१२,२०८			१२,२३२	१२,२३२		१२,२३२	
३४	जिल्ला विकास समिति	रौतहट	४८		१२,४०५			१२,४५३	१२,४५३		१२,४५३	
३५	जिल्ला विकास समिति	पर्सा	४८	७००	१२,९४९			१३,६९७	१३,६९७		१३,६९७	
३६	जिल्ला विकास समिति	गोर्खा	७८०	१,५००	११,१७५			१३,४५५	१३,४५५		१३,४५५	
३७	जिल्ला विकास समिति	लम्जुङ्ग	१,०६२	१,०००	३६,३९७			३८,४५९	३८,४५९		३८,४५९	
३८	जिल्ला विकास समिति	मनाङ्ग	३३६	१,०००	११,८७०			१३,२०६	१३,२०६		१३,२०६	
३९	जिल्ला विकास समिति	कास्की	८७०	१,५००	१७,८३३			२०,२०३	२०,२०३		२०,२०३	
४०	जिल्ला विकास समिति	तनहुँ	५०४	१,५००	१७,७८२			१९,७८६	१९,७८६		१९,७८६	
४१	जिल्ला विकास समिति	स्याङ्गजा	७३२	१,५००	९,२२९			११,४६१	११,४६१		११,४६१	

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४२	जिल्ला विकास समिति	पर्वत	७८०	१,०००	१४,६८७			१६,४६७	१६,४६७		१६,४६७	
४३	जिल्ला विकास समिति	बाग्लुङ	२,४६०	२,०००	७,६१७			१२,०७७	१२,०७७		१२,०७७	
४४	जिल्ला विकास समिति	म्याग्दी	१,११६	३,०००	११,९५२			१६,०६८	१६,०६८		१६,०६८	
४५	जिल्ला विकास समिति	मुस्ताङ्ग	२८८	१,०००	११,३६६			१२,६५४	१२,६५४		१२,६५४	
४६	जिल्ला विकास समिति	पाल्पा	९०६	३,०००	६,८६०			१०,७६६	१०,७६६		१०,७६६	
४७	जिल्ला विकास समिति	नवलपरासी	२६४	२,०००	१४,६४५			१६,९०९	१६,९०९		१६,९०९	
४८	जिल्ला विकास समिति	रूपन्देही	७८	१,०००	१२,०२१			१३,०९९	१३,०९९		१३,०९९	
४९	जिल्ला विकास समिति	कर्णालबस्तु	४८		१२,३७९			१२,४२७	१२,४२७		१२,४२७	
५०	जिल्ला विकास समिति	अर्घाखाँची	३६०	१,०००	९,४७०			१०,८३०	१०,८३०		१०,८३०	
५१	जिल्ला विकास समिति	गुल्मी	१,०९८	३,०००	७,११८			११,२१६	११,२१६		११,२१६	
५२	जिल्ला विकास समिति	रूकुम	५५८	२,५००	२६,७४९			२९,८०७	२९,८०७		२९,८०७	
५३	जिल्ला विकास समिति	सल्यान	२२२	१,०००	२३,१८७			२४,४०९	२४,४०९		२४,४०९	
५४	जिल्ला विकास समिति	रोल्पा	९१२	१,४००	१५,७५८			१८,०७०	१८,०७०		१८,०७०	
५५	जिल्ला विकास समिति	प्युठान	६५४	१,४००	११,२६९			१३,३२३	१३,३२३		१३,३२३	
५६	जिल्ला विकास समिति	दाङ	२८२	१,०००	१७,८७२			१९,१५४	१९,१५४		१९,१५४	
५७	जिल्ला विकास समिति	बाँके	७२	७५०	६,३७३			७,१९५	७,१९५		७,१९५	
५८	जिल्ला विकास समिति	बर्दिया	६०	७५०	१०,८०४			११,६१४	११,६१४		११,६१४	
५९	जिल्ला विकास समिति	सुर्खेत	४७४	३,५००	२२,३८९			२६,३६३	२६,३६३		२६,३६३	
६०	जिल्ला विकास समिति	जाजरकोट	४५०	२,०००	१८,९७५			२१,४२५	२१,४२५		२१,४२५	
६१	जिल्ला विकास समिति	दैलेख	५१०	२,०००	२०,२५०			२२,७६०	२२,७६०		२२,७६०	
६२	जिल्ला विकास समिति	डोल्पा	३००	३,०००	१५,४६९			१८,७६९	१८,७६९		१८,७६९	
६३	जिल्ला विकास समिति	जुम्ला	२६४	१,०००	१७,६११			१८,८७५	१८,८७५		१८,८७५	
६४	जिल्ला विकास समिति	मुगु	३१२	२,५००	१४,६१२			१७,४२४	१७,४२४		१७,४२४	
६५	जिल्ला विकास समिति	कालीकोट	३६६	१,०००	१४,८६४			१६,२३०	१६,२३०		१६,२३०	
६६	जिल्ला विकास समिति	हुम्ला	३७२	३,५००	३१,७४६			३५,६१८	३५,६१८		३५,६१८	
६७	जिल्ला विकास समिति	बझाङ्ग	६६०	३,५००	१३,५४३			१७,७०३	१७,७०३		१७,७०३	
६८	जिल्ला विकास समिति	बाजुरा	५०४	३,०००	१७,५१०			२१,०१४	२१,०१४		२१,०१४	
६९	जिल्ला विकास समिति	अछाम	५१०	२,५००	१२,२८०			१५,२९०	१५,२९०		१५,२९०	

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७०	जिल्ला विकास समिति	डोटी	६६६	२,०००	१९,१९५			२१,८६१	२१,८६१		२१,८६१	
७१	जिल्ला विकास समिति	कैलाली	२२२	१,०००	१५,१२१			१६,३४३	१६,३४३		१६,३४३	
७२	जिल्ला विकास समिति	कन्चनपुर	८४	१,४००	१८,५२०			२०,००४	२०,००४		२०,००४	
७३	जिल्ला विकास समिति	डडेल्धुरा	५१६	२,१००	१४,०१०			१६,६२६	१६,६२६		१६,६२६	
७४	जिल्ला विकास समिति	बैतडी	६००	२,०००	१३,३३१			१५,९३१	१५,९३१		१५,९३१	
७५	जिल्ला विकास समिति	दाङ्गुला	६६६	२,०००	१५,३०३			१७,९६९	१७,९६९		१७,९६९	
	जिल्ला विकास समिति चालु खर्च रकम		३७,०६२	१२७,६३४	१,०४५,३९६			१,२१०,०९२	१,२१०,०९२		१,२१०,०९२	
आ)	प्रशासनिक चालु खर्च (केन्द्र)											
१)	सस्पेन्सन् बृज डिभिजन							१२,७७८	१२,७७८		१२,७७८	
द)	स्थानीय पुल शाखा							१,०२३	१,०२३		१,०२३	
	केन्द्रको चालु खर्च जम्मा							१३,८०१	१३,८०१		१३,८०१	
	चालु खर्च जम्मा (अ + आ)							१,२२३,८९३	१,२२३,८९३		१,२२३,८९३	
ख)	पुँजिगत खर्च											
अ)	केन्द्र											
१)	स्थानीय पुल शाखा											
i	नेपाल सरकारको बजेट बाट जिल्लाहरुको माग बमोजिम वितरण गरिने लड्डा खरीदको लागि स्थानीय पुल शाखा					१४५०००		१४५०००	१४५०००		१४५०००	
ii	नेपाल सरकारको बजेट बाट जिल्लाहरुको माग बमोजिम वितरण गरिने बुलडग गिप्स खरीदको लागि स्थानीय पुल शाखा					१५०००		१५०००	१५०००		१५०००	

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iii	फलामे लट्टा तथा बुल्डग ग्रीपस खरीदको लागि भन्सार महशुल तथा भ्याट				४५०००		४५०००	४५०००		४५०००	
iv	अमलेख गञ्ज स्टोर व्यवस्थापन (लट्टा तथा बुल्डग्रीपस को काटने तथा मिलाउने कार्य)				९००		९००	९००		९००	
	जम्मा				२०५९००		२०५९००	२०५९००		२०५९००	
द)	सस्पेन्सन् बृज डिभिजन										
i	भो.पु. निर्माण, मर्मत तथा सर्भे						५००,०००	५०००००		५०००००	
	जम्मा						५००,०००	५०००००		५०००००	
३)	तुईन विस्थापन कार्यक्रम			१०००००१			घघघघघघघघ	१०००००१		१०००००१	
	भो.पु.को DPR तयार गर्ने र भो.पु रणनीति बमोजिम निर्माण प्रक्रिया केन्द्र र जिल्लाले अगाडि बढाउने			२५००००			२५०,०००	२५००००		२५००००	
	कुल जम्मा केन्द्र पुँजिगत						घघघघघघघघ	१९५५९०१		१९५५९०१	
४)	भोलुङ्गे पुल सहयोग ईकाई वजेट रकम नं. २२२३०२					घघघघघघघघ	२५०,०००		२५००००	२५००००	
	पुजिगत जम्मा						२,२०५,९०१	१९५५९०१	२५००००	२२०५९०१	
	जम्मा बजेट (क + ख))						३,४२९,७९४	३,१७९,७९४	२५००००१००	३,४२९,७९४१००	
तयार गर्ने अधिकृतको दस्तखत				आयोजना/कार्यालयप्रमुखको दस्तखत			विभागिय प्रमुखको दस्तखत :			प्रमाणित गर्नेको दस्तखत	
मिति :-			मिति :-				मिति :-			मिति :-	

Annex - III:

Trail Bridge SWAp Outcome Summary for FY 2073/2074 (2016/2017)

2. OUTCOME SUMMARY

The expected outcomes of the year FY 2073/2074 (2016/2017) as delineated in the Log Frame of TB SWAp Framework Document and based on the expected outputs are presented in the following table:

S. N	Indicator	Phase Target (FY 2014/15-2019/20)	Actual Achievements till FY 2015/2016	Expected Outcomes FY 2016/17	Comments
Outcome 1: Local communities, especially the Disadvantaged groups use trail bridges to improve safe access to basic services (health, education, markets, farms and employment opportunities) at local level					
1.1	Rural people have safe and improved access to service centres	3.75 million people including 1.8 million DAGs	1,464,134 people, including 846,385 DAGs (58%)	874,500 people, including 437,250 DAGs (50%)	The average beneficiaries per bridge is estimated at 1,500 persons, having 50% DAGs as foreseen in Framework II
1.2	Increment in school attendance and visits to health centres	10% increment in school attendance and visits to health centres	22 % increment in school attendance and 32% increment in people going to health facilities	10% increment in school attendance and visits to health centres	The expected outcomes are as foreseen in the Framework II
1.3	Market centres developed	500 market centres (20% of bridges)	Markets developed at 39% of bridge sites	20% of the bridge sites	
1.4	Employment created at local level	5.0 million person-days, including 50% for DAGs	1,954,873 person-days, including 1,255,833 person-days for DAGs	1.1 m person-days, including 583,000 person-days for DAGs	The average local employment per bridge is estimated at 2,000 p-days as foreseen in the Framework II
1.5	Women representation in UCs	At least 40%	45%	40% Women representation in UCs	An in-depth study shall be conducted by HELVETAS Swiss International to identify policy and practices to enhance women's participation in UCs.
1.6	Representation of discriminated groups	Proportionate in all UCs	81% UCs proportionately representative	100% UCs proportionately representative	
1.7	Executive position to discriminated groups	At least one in all UCs	100%	100%	

SN	Indicator	Phase Target (FY 2014/15-2019/20)	Actual Achievements till FY 2015/2016	Expected Outcomes FY 2016/17	Comments
Outcome 2: Government of Nepal, represented by MoFALD / DoLIDAR enforces Trail Bridge Strategy (TBS/LIDP) in construction and maintenance of trail bridges					
2.1	LBD created with merger of SBD and LBS	Functional by July 2016	-	Established by end of fiscal year	As per the TB SWAp Framework-II
2.2	All trail bridges incorporated in annual plan of Local Bodies	All trail bridge programme including centrally implemented included in annual plan of Local Bodies	All DDCs	All DDCs	DoLIDAR to issue letter to all concerned agencies
2.3	Public Hearing & Public Audit in all SSTB bridges	All SSTB bridges	PH 100% and PA 81% community bridge sites	100% PHs and 90% PAs conducted within the fiscal year	The rest 10% will be done within 4 months of TB completion
2.4	Application of Technical standards and demarcation convention	Application of technical standards and demarcation convention mandatory for all bridge building agencies	Application by most bridge building agencies	Application by all bridge building agencies	LBS/DoLIDAR will carry out random inspections with the support of TBSU
2.5	Quality of bridge	100% of bridges constructed meet set quality standards	98% (minor rectification needed at 2% bridges)	100% of bridges constructed meet set quality standards	LBS/DoLIDAR will carry out random inspection with the support of TBSU
2.6	Application of prioritization criteria and formula	All DDCs and bridge building agencies adhere to prescribed prioritization criteria of 1 hour detour	All bridge building agencies have adhered to prescribed prioritization criteria and formula	All bridge building agencies adhere to prescribed prioritization criteria and formula	LBS/DoLIDAR will carry out random inspection with the support of TBSU

Annex - IV:

Trail Bridge SWAp Annual Program for FY 2073/2074 (2016/2017)

Trail Bridge Sector-Wide Approach Annual Plan for FY 2073/074 (2016/017) Programme Summary

SN	Sources of Fund	Routine Maintenance	Major Maintenance	New Construction
1	GoN Funded (District Programme)	6,268	280	464
2	DRILP-AF Funded (District Programme)	0	0	36
	Total	6,268	280	500

3	GoN Funded-RADC Programme	0	0	22
4	GoN Funded-SBD (Central Programme)	0	0	41
5	KAAA-BGN	0	0	20
	Grand Total	6,268	280	583

Trail Bridge Sector-Wide Approach Annual Plan for FY 2073/074 (2016/017) Cluster-wise District Programme (GoN + DRILP-AF Funded)

SN	Cluster wise	Routine Maintenance	Major Maintenance	New Construction
1	Eastern Cluster	1267	68	95
2	SFU 1- Bardibas	139	12	65
3	Central Cluster	1240	53	90
4	Western Cluster	1942	69	95
5	Mid and Far-Western Cluster	1415	66	105
6	SFU 2- Surkhet	265	12	50
	Grand Total	6268	280	500

Note: RADC, SDB and KAA bridges are excluded in this list.

Trail Bridge Sector-Wide Approach Annual Plan for FY 2073/074(2016/017)

GoN -Funded District-wise Programme

Cluster	SN	District	Routine Maintenance	Major Maintenance	New Construction
Eastern Cluster	1	Taplejung	150	10	0
	2	Panchthar	119	6	10
	3	Ilam	139	5	11
	4	Dhankuta	43	3	7
	5	Terhathum	96	6	6
	6	S Sava	120	8	10
	7	Bhojpur	120	5	7
	8	Udaypur	66	4	7
	9	Khotang	162	9	6
	10	Okhaldhunga	136	7	5
	11	Solukhumbu	116	5	9
	12	Jhapa	12	0	4
	13	Morang	43	3	5
	14	Sunsari	16	0	6
	15	Saptari	7	2	7
	16	Siraha	5	1	4
Total			1,350	74	104

Central Cluster	17	Dolakha	166	5	6
	18	Ramechhap	143	4	3
	19	Sindhuli	106	5	9
	20	Dhanusha	4	0	4
	21	Mahottari	9	1	4
	22	Sarlahi	7	0	4
	23	Rasuwa	73	6	6
	24	Dhading	148	6	8
	25	Nuwakot	151	5	10
	26	Kathmandu	25	2	4
	27	Bhaktapur	10	0	5
	28	Lalitpur	64	4	6
	29	Kavrepalanchowk	119	3	6
	30	Sindhupalchowk	122	5	9
	31	Makwanpur	59	4	5
	32	Rautahat	8	0	6
	33	Bara	2	0	5
	34	Parsa	8	2	7
	35	Chitwan	54	4	9
Total			1278	56	116

Cluster	S.N.	District	Routine Maintenance	Major Maintenance	New Construction
Western Cluster	36	Gorkha	138	7	2
	37	Manang	54	2	3
	38	Lamjung	153	6	9
	39	Kaski	135	7	7
	40	Tanahun	88	3	6
	41	Syangja	128	4	7
	42	Gulmi	187	6	7
	43	Palpa	155	4	7
	44	Arghakhanchi	60	3	6
	45	Nawalparasi	50	3	4
	46	Rupandehi	13	2	3
	47	Kapilbastu	5	1	6
	48	Mustang	47	3	6
	49	Myagdi	197	9	5
	50	Baglung	417	8	8
	51	Parbat	133	4	6
	Total		1960	72	92

Mid-Western Cluster	52	Rukum	93	4	8
	53	Rolpa	152	3	8
	54	Pyuthan	109	4	4
	55	Salyan	37	3	7
	56	Dang	47	3	3
	57	Dolpa	57	4	9
	58	Mugu	50	2	9
	59	Jumla	41	2	9
	60	Kalikot	52	2	10
	61	Humla	48	2	8
	62	Jajarkot	75	4	9
	63	Dailekh	85	4	6
	64	Surkhet	79	8	8
	65	Banke	10	0	2
	66	Bardiya	7	0	3
	Total		942	45	103

Far Western Cluster	67	Achham	85	4	5
	68	Bajhang	110	5	5
	69	Kailali	37	2	3
	70	Bajura	84	5	6
	71	Doti	111	4	7
	72	Darchula	111	4	7
	73	Baitadi	100	4	6
	74	Dadeldhura	86	3	7
	75	Kanchanpur	14	2	3
	Total		738	33	49

Grand Total			6,268	280	464
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Note: No DRILP AF bridges are included in these tables

Trail Bridge Sector-Wide Approach
Annual Plan for FY 2073/2074 (2016/017)
DRILP-AF Funded District-wise Programme
New Construction

S.N.		District	Routine Maintenance	Major Maintenance	New Construction
ER	1	Taplejung	0	0	11
	2	Okharkidhunga	0	0	6
CR	3	Ramechhap	0	0	4
WR	4	Gorkha	0	0	10
	5	Lamjung	0	0	0
	6	Myagdi	0	0	2
	7	Baglung	0	0	0
FWR	8	Baitadi	0	0	3
Total			0	0	36

Annex - V:

Trail Bridge SWAp New Construction Plan for FY 2073/2074 (2016/2017)

Overview: Trail Bridge SWAp New Bridge Planning for FY 2073/074 (2016/017)
Funding Agency Wise - New Construction

S N	District	Carry over from FY 2072/73	New Planning in FY 2073/74	Community Agreement in FY 2073/74	1st Phase of Construction		Materials Handover		Total under construction (Active Bridges)	Expected Completion		Expected Carry over to FY 2074/75	
					Carry over	New	Carry over	New		Carry Over (from FY 2072/73)	New (from FY 2073/74)	Carry Over	New
1	2	3	4	5	6	7	8	9	10=(3+5)	11	12	13=(3-11)	14=(5-12)
1	GoN funded district programme	428	623	562	428	292	429	272	990	353	111	78	457
2	DRILP-AF funded programme	36	0	0	36	0	36	0	36	36	0	0	0
	Total	464	623	562	464	292	465	272	1026	389	111	78	457
Total										500		535	

Overview: Trail Bridge SWAp New Bridge Planning for FY 2073/074 (2016/017)
Cluster wise- New Construction (GoN and DRILP-AF Funded)

SN	District	Carry over from FY 2072/73	New Planning in FY 2073/74	Community Agreement in FY 2073/74	1st Phase of Construction		Materials Handover		Total under construction (Active Bridges)	Expected Completion		Expected Carry over to FY 2074/75	
					Carry over	New	Carry over	New		Carry Over (from FY 2072/73)	New (from FY 2073/74)	Carry Over	New
1	2	3	4	5	6	7	8	9	10=(3+5)	11	12	13=(3-11)	14=(5-12)
1	Eastern Cluster	89	130	101	89	66	89	66	190	74	21	15	80
2	Special Focus Unit - Bardibas	59	49	48	59	48	57	39	107	49	7	14	44
3	Central Cluster	69	129	111	69	64	69	57	180	63	27	6	84
4	Western Cluster	83	126	119	83	57	86	53	202	76	28	6	94
5	Mid and Far Western Cluster	137	121	115	137	33	137	33	252	100	10	37	105
6	Special Focus Unit - Surkhet	27	68	68	27	24	27	24	95	27	18	0	50
	Total	464	623	562	464	292	465	272	1026	389	111	78	457
Total										500		535	

Note: The Cluster and SFU office figures are inclusive of the re-allocation of the districts

a. Banke and Bardiya from SFU-Surkhet to Mid and Far-Western Cluster

b. Kapilvastu and Rupendehi from SFU-Bardibas to Western Cluster

Trail Bridge Sector-Wide Approach (TB SWAp)

GoN Funding Programme- New Construction Planning for FY 2073/2074 (2016/2017)

Cluster Office	S N	District	Carryover from FY 2015/01 6	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1 st Phase of Construction		Material Handover		Total under constructi on (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
						Carry over	New	Carry over	New		Carry over	New	Carry over	New
1	2	3	4	5	6	7	8	9	10	11=(4+6)	12	13	14=(4- 12)	15 = (6-13)
Eastern Cluster	1	Taplejung	0	19	13	0	12	0	12	13	0	0	0	12
	2	Panchthar	11	13	11	11	7	11	7	22	9	1	2	13
	3	Ilam	11	12	11	11	7	11	7	22	9	2	2	10
	4	Sangkhuwas abha	11	5	5	11	3	11	3	16	8	2	3	9
	5	Terhathum	4	11	8	4	3	4	3	12	4	2	0	3
	6	Dhankuta	7	10	8	7	4	7	4	15	7	0	0	6
	7	Bhojpur	9	10	8	9	4	9	4	17	7	0	2	8
	8	Solukhumbu	2	15	11	2	10	2	10	13	2	7	0	8
	9	Okhaldhunga	1	12	10	1	8	1	8	11	1	4	0	4
	10	Khotang	6	12	9	6	8	6	8	15	4	2	2	6
	11	Udaypur	10	11	7	10	0	10	0	17	6	1	4	7
	Total		72	130	101	72	66	72	66	173	57	21	15	80

Cluster Office	SN	District	Carryover from FY 2015/016	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1 st Phase of Construction		Material Handover		Total under constructi on (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
						Carry over	New	Carry over	New		Carry over	New	Carry over	New
1	2	3	4	5	6	7	8	9	10	11=(4+6)	12	13	14= (4-12)	15 = (6-13)
Special Focus Unit-1 Bardibas	1	Jhapa	2	6	6	2	6	0	6	8	2	2	0	4
	2	Morang	4	5	5	4	5	4	4	9	4	1	0	4
	3	Sunsari	3	6	6	3	6	3	6	9	3	3	0	3
	4	Saptari	13	1	0	13	0	13	0	13	7	0	6	0
	5	Siraha	4	5	5	4	5	4	5	9	4	0	0	5
	6	Dhanusha	4	5	5	4	5	4	3	9	4	0	0	5
	7	Mahottari	4	5	5	4	5	4	5	9	4	0	0	5
	8	Sarlahi	4	7	7	4	7	4	5	11	4	0	0	7
	9	Rautahat	7	2	2	7	2	7	0	9	6	0	1	3
	10	Bara	7	2	2	7	2	7	0	9	5	0	2	2
	11	Parsa	7	5	5	7	5	7	5	12	6	1	5	6
	Total		59	49	48	59	48	57	39	107	49	7	14	44

Trail Bridge Sector-Wide Approach (TB SWAp)

GoN Funding Programme- New Construction Planning for FY 2073/2074 (2016/017)

Cluster Office	SN	District	Carryover from FY 2015/016	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1 st Phase of Construction		Material Handover		Total under construction (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
						Carry over	New	Carry over	New		Carry over	New	Carry over	New
1	2	3	4	5	6	7	8	9	10	11=(4+6)	12	13	14=(4-12)	15 = (6-13)
Central Cluster	1	Dolakha	4	10	5	4	6	4	6	7	4	2	0	3
	2	Sindhuli	6	10	10	6	4	6	4	16	6	3	0	10
	3	Sindhupalchok	7	12	5	7	5	7	5	8	6	3	1	3
	4	Kvrepalanchowk	9	10	7	9	0	9	0	16	6	0	3	7
	5	Bhaktapur	3	5	12	3	3	3	3	19	3	2	0	9
	6	Kathmandu	2	5	10	2	2	2	2	14	2	2	0	8
	7	Lalitpur	6	10	10	6	5	6	5	10	6	0	0	7
	8	Rasuwa	3	12	10	3	5	3	5	16	3	3	0	7
	9	Nuwakot	11	10	8	11	3	11	3	10	10	0	1	5
	10	Dhading	5	12	8	5	8	5	8	15	5	3	0	5
	11	Chitawan	7	11	8	7	5	7	5	13	6	3	1	5
	12	Makawanpur	2	12	10	2	12	2	5	21	2	3	0	10
	13	Ramechhap	0	10	8	0	6	0	6	11	0	3	0	5
	Total		65	129	111	65	64	65	57	176	59	27	6	84

Cluster Office	SN	District	Carryover from FY 2015/016	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1 st Phase of Construction		Material Handover		Total under construction (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
						Carry over	New	Carry over	New		Carry over	New	Carry over	New
1	2	3	4	5	6	7	8	9	10	11=(4+6)	12	13	14=(4-12)	15 = (6-13)
Western Cluster	1	Gorkha	2	6	6	2	4	2	4	8	2	0	0	6
	2	Manang	1	5	5	1	3	1	3	6	1	2	0	3
	3	Lamjung	10	8	8	10	0	10	0	18	9	0	1	8
	4	Kaski	4	8	8	4	8	4	8	12	4	3	0	5
	5	Tanahun	3	7	7	3	7	3	7	10	3	3	0	4
	6	Syangja	11	6	6	11	0	11	0	17	7	0	4	6
	7	Gulmi	8	8	8	8	0	8	0	16	7	0	1	8
	8	Palpa	8	6	6	8	0	8	0	14	7	0	1	6
	9	Arghakhanchi	6	6	6	6	0	6	0	12	6	0	0	6
	10	Nawalparasi	1	5	5	1	5	1	5	6	1	3	0	2
	11	Mustang	4	3	3	4	3	4	3	7	4	2	0	1
	12	Myagdi	2	12	12	2	5	2	5	14	2	3	0	9
	13	Baglung	3	12	12	3	7	3	7	15	3	5	0	7
	14	Parbat	6	6	6	6	6	6	6	12	6	0	0	6
	15	Rupandehi	0	7	4	0	4	3	0	4	0	3	0	4
	16	Kapilbastu	2	9	5	2	5	2	5	7	2	4	0	1
	Total		71	126	119	71	57	74	53	190	64	28	6	94

Trail Bridge Sector-Wide Approach (TB SWAp)

GoN Funding Programme- New Construction Planning for FY 2016/17 (2073/074)

Cluster Office	SN	District	Carryover from FY 2015/016	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1 st Phase of Construction		Material Handover		Total under construction (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
						Carry over	New	Carry over	New		Carry over	New	Carry over	New
1	2	3	4	5	6	7	8	9	10	11=(4+6)	12	13	14=(4-12)	15 = (6-13)
Mid and Far-Western Cluster	1	Darchula	11	6	6	11	0	11	0	17	7	0	4	6
	2	Baitadi	6	5	5	6	5	6	5	11	6	0	0	5
	3	Dadeldhura	7	8	8	7	0	7	0	15	7	0	0	8
	4	Kanchanpur	5	4	4	5	0	5	0	9	3	0	2	4
	5	Bajhang	7	6	6	7	0	7	0	13	5	0	2	6
	6	Bajura	2	9	9	2	4	2	4	11	2	4	0	5
	7	Doti	12	6	6	12	0	12	0	18	7	0	5	6
	8	Achham	8	6	6	8	0	8	0	14	5	0	3	6
	9	Kailali	5	4	4	5	0	5	0	9	3	0	2	4
	10	Dailekh	9	6	6	9	0	9	0	15	6	0	3	6
	11	Surkhet	9	8	8	9	3	9	3	17	8	0	1	8
	12	Jajarkot	8	9	9	8	5	8	5	17	7	2	1	7
	13	Rukum	14	4	4	14	0	14	0	18	8	0	6	4
	14	Rolpa	12	6	6	12	0	12	0	18	8	0	4	6
	15	Salyan	10	6	6	10	0	10	0	16	7	0	3	6
	16	Pyuthan	4	15	9	4	9	4	9	13	4	0	0	9
	17	Dang	2	6	6	2	4	2	4	8	1	2	1	4
	18	Banke	0	5	5	0	3	0	3	5	0	2	0	3
	19	Bardiya	3	2	2	3	0	3	0	5	3	0	0	2
	Total		134	121	115	134	33	134	33	249	97	10	37	105

Cluster Office	SN	District	Carryover from FY 2015/016	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1 st Phase of Construction		Material Handover		Total under construction (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
						Carry over	New	Carry over	New		Carry over	New	Carry over	New
1	2	3	4	5	6	7	8	9	10	11=(4+6)	12	13	14=(4-12)	15 = (6-13)
Special Focus Unit-2 Surkhet	1	Dolpa	9	8	8	9	0	9	0	17	9	0	0	8
	2	Jumla	3	14	14	3	7	3	7	17	3	6	0	8
	3	Kalikot	4	20	20	4	6	4	6	24	4	6	0	14
	4	Humla	4	13	13	4	8	4	8	17	4	4	0	9
	5	Mugu	7	13	13	7	3	7	3	20	7	2	0	11
	Total		27	68	68	27	24	27	24	65	27	18	0	50

Total			428	623	562	428	292	429	272	990	353	111	78	457
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Trail Bridge Sector Wide Approach

DRILP-AF Funded- New Construction for FY 2016/17 (2073/74)

S N	District	Carryover from FY 2015/01 6	New Planning in FY 2016/017	Community Agreement in FY 2016/2017	1st Phase of Construction		Materials Handover		Total under constructio n (Active Bridges)	Expected Completion		Expected Carryover to FY 2017/018	
					Carry over	New	Carry over	New		Carry Over (from FY 2072/73)	New (from FY 2073/74)	Carry Over	New
1	2	3	4	5	6	7	8	9	10=(3+5)	11	12	13= (3-11)	14= (5-12)
1	Taplejung	11	0	0	11	0	11	0	11	11	0	0	0
2	Okhaldhunga	6	0	0	6	0	6	0	6	6	0	0	0
3	Ramechhap	4	0	0	4	0	3	0	3	4	0	0	0
4	Baitadi	3	0	0	4	0	4	0	4	4	0	0	0
5	Baglung	0	0	0	0	0	0	0	0	0	0	0	0
6	Gorkha	10	0	0	10	0	10	0	10	10	0	0	0
7	Lamjung	0	0	0	0	0	0	0	0	0	0	0	0
8	Myagdi	2	0	0	2	0	2	0	2	2	0	0	0
	Total	36	0	0	36	0	36	0	36	36	0	0	0
Expected completion										36		0	0

Trail Bridge Sector Wide Approach

Suspension Bridge Division/DoLIDAR Planning for FY 2073/2074 (2016/017)

SN	District	Name of Trail Bridges
Carry Over Bridges from FY 2072/2073		
1	Nuwakot	TadiKhola Chaugha (Suryamati bridge)
2	Shankhuwasava	Kuduleghat bridge
3	Udaypur/Khotang	Kampughat bridge
4	Sindhupalchowk	Indrawati bridge
5	Rautahat	Bagmati river (Nunthar bridge)
6	Manang	Nachair Tangmra bridge
7	Kalikot	Chiurikuna bridge
8	Kalikot	Ghitakot bridge
9	Rolpa	Thawangkhola bridge
10	Nawalparasi/Chitwan	Balmiki Ashram (Trivenidham multi span bridge)
11	Gorkha	Ghadedi khola bridge
12	Kaski	Dhadbesi Arbakalika (Bijaypur Khola bridge)
13	Darchula	Jaljivi bridge
14	Bajura	Falasen bridge
15	Taplegunj	Imakhola bridge
16	Bhojpur	Myadyung bridge
17	Rukum	Naya gad bridge
18	Palpa/Syangja	Ramghat bridge
19	Palpa/Syangja	Bartaghat bridge
20	Salyan	Hattidomar bridge
21	Sindhuli/Okhaldhunga	Jalkini bridge
22	Rukum	Jaharikhola bridge
23	Nawalparasi	Gogdi bridge
24	Jajarkot	Chedachaur bridge
25	Ramechhap/Sindhuli	Nawughat bridge
26	Bajhang	Khochadewal bridge
27	Dang	Rapti river(rajapur Satbariya bridge)
28	Pyuthan	Dhairebagar bridge
29	Banke	Kusum bridge
30	Parbat/Myagdi	Dhairing bridge
31	Darchula	Chamelia bridge
32	Khotang	Kaule(Dhikhuwa bridge)
33	Nawalparasi/Tanahu	Atraulitar Rumjakot bridge
34	Ilam	Maie Khola Bridge
35	Dhankuta/Bhojpur	Hasanpur Chintang bridge,Dhankuta/Bhojpur
36	Dhankuta/Bhojpur	Bhangaletar Bridge
37	Khotang	Bashilaghat Bridge
38	Ramechhap	Simalthan Archale (Ranjor bridge)
39	Khotang	Kurleghat bridge
40	Tanahu	Bhirkot bridge
41	Nawalparasi	Hattikhor Sankhadev bridge

42	Syangja	Adheri Bridge
43	Gorkha/Chitwan	Ambote-Khataite bridge
44	Kaski	Fakaltara Damsadi bridge
45	Parbat	Mudikuwa Siwalaya bridge
46	Mustang	Dhey Khola bridge, bridge
47	Pyuthan	Saribang bridge
48	Surkhet	Agrigau bridge
49	Dailekh	Kaule pani bridge
50	Surkhet	Chote chiple bridge
51	Kanchanpur	Aamghat bridge
52	Kanchanpur	Jogbudha bridge.
53	Rukum	Muglikhola bridge
54	Pyuthan	Raskot bridge
55	Rupandehi	Tapmajhuwa bridge
56	Achham	Bhanakot- Kalekanda bridge
57	Lalitpur/Makwanpur	Kerabari bridge
58	Kaski	Siyali bridge
59	Bajhang	Moyal Paudi bridge
60	Nuwakot	Sindure bridge
61	Solukhumbu	Dukding Sano gumdel
62	Rukum	Bhanebagar bridge
63	Jhapa	Maheshpur bridge
64	Nawalparasi	Susta Malti span bridge
65	Chitwan/Gorkha	Hiklung ghat bridge
66	Surkhet	Taranga bridge

SN	District	Name of Trail Bridges
New Construction to be taken in FY 2073/2074		
1	Shankhuwasava	Birsuwa dovan bridge
2	Makwanpur/Lalitpur	Ashrang Manthali bridge
3	Syangja/Gulmi	Kali Gandaki bridge
4	Kaski	Mauribesi bridge
5	Baglung	Nisi Khola bridge
6	Dhading	Belkhu Bhutiya Bridge
7	Syangja/Palpa	Chipe Ghat bridge
8	Mustang	
9	Gorkha	Pang Singh Bridge
10	Surkhet	Bhotechaur Simghat Bridge
11	Udaypur	Gireri Khola Bridge
12	Makwanpur	Sugure Bridge
13	Kaski	Tallo purnitar bridge
14	Taplegunj	Lamiduwali bridge
15	Ramechhap/Sindhuli	Murkibesi bridge
16	Panchthar	Ritthabote bridge
17	Ilam	Chaju khola bridge

18	Morang/Jhapa	Satmerighat bridge
19	Khotang	Rawakhola(Kharpa) bridge
20	Dhading	Andheri(Budhathum) bridge
21	Baglung	Simalchaur ghat bridge
22	Kalikot/Jumla	Banchughat simela bridge
23	Dang	Baibang Bangi bridge
24	Salyan	Sarda river
25	Jajarkot/Salyan	Ali Bame bridge
26	Nuwakot	Tadikhola bridge
27	Gulmi	badigad bridge
28	Sindhuli	Kamalamai bridge
29	Bardiya	Kusumbaghat bridge
30	Surkhet	Jamughat bridge
31	Surkhet	Kumalghat bridge
32	Arghakhanchi	Nipane Khola bridge
33	Arghakhanchi	Sitkhola Jukena Bridge
34	Okhaldhunga/Khotang	Dudhkoshi bridge
35	Darchula	Tigram bridge
36	Dhanusha/Mahottari	Tulsi Rajabas bridge
37	Dang/Bardiya	Rautara bridge
38	Kathmandu/Lalitpur	Khokhana Taudaha bridge
39	Dhanusha/Siraha	Kamala bridge
40	Tanahu	Chipchipe Baidi Bridge
41	Sindupalchowk	Bhotekoshi river bridge
42	Makwanpur	Juina Adheri bridge

Trail Bridge Sector Wide Approach

KAAA- BGN Funded Trail Bridges Planning for FY 2073/2074 (2016/2017)

SN.	Project No.	Bridge Project	Location	FY	Co-ordinates
1	B/WE08/14/012	Ghatta Khola Suspended Bridge, Span 56.00m	Laprak VDC, W 9, Gorkha	2073/74	N: 28°12 '56.36" E: 84°48' 10.31"
2	B/WE08/14/013	Lisyang Khola Suspended Bridge, Span 46.00m	Laprak VDC, W 2, Gorkha	2073/74	N: 28°13'50.99" E: 84°47 '39.35"
3	B/WE08/13/009	Pla Khola Suspended Bridge, Span 46.00m	Barpak VDC, W 3 & 4, Gorkha	2073/74	N: 28°13'13.86" E: 84°44 '20.75"
4	B/WE08/13/027	Syar Khola (Rakpa) Suspended Bridge, Span 110.00m	Chumchet VDC, W 2 & 9, Gorkha	2073/74	N: 28°28'02.94" E: 84°57 '27.29"
5	B/WE08/14/009	Syar Khola (Kimbe) Suspended Bridge, Span 55.00m	Chumchet VDC, W 2 & 8, Gorkha	2073/74	N: 28°28'19.08" E: 84°56'11.85"
6	B/WE08/16/004	Gunga Khola Suspended Bridge, Span 68.00m	Lho VDC, W 6, Gorkha	2073/74	N: 28°34'20" E: 84°41'32.90"
7	B/WE06/14/038	Sardi Khola Suspended Bridge, Span 30.00m	Sardikhola VDC, W 5 & 6, Kaski	2073/74	N: 28°21'00.96" E: 83°59'50.34"
8	B/WE06/14/029	Ghar Khola (Kindu) Suspended Bridge, Span 77.00m	Sikha VDC, W 2 & 5, Myagdi	2073/74	N: 28°26'15.21" E: 83°40 '59.83"
9	B/WE12/14/001	Tamghas Khola (Singwang) Suspended Bridge, Span 75.00m	Mirul VDC, W 3, Rolpa	2073/74	N: 28°28'20.64" E: 82°36 '54.07"
10	B/WE13/14/040	Sabra Khola Suspended Bridge, Span 90.00m	Khijikati & Rawadolu VDC, W 5 & 5, Okhaldhunga	2073/74	N: 27°30'09.77" E: 86°20 '09.30"
11	B/WE13/14/045	Pokali Khola (Doldu) Suspended Bridge, Span 34.00m	Pokali VDC, W 8, Okhaldhunga	2073/74	N: 27°23'55.69" E: 86°18 '40.58"
12	B/WE15/14/025	Molung Khola (Salme Dovan) Suspended Bridge, Span 46.00m	Patle & Khiji Phalante VDC, W 3 & 7, Okhaldhunga	2073/74	N: 27°26' 05.39" E: 86°23 '26.11"
13	B/WE15/14/026	Hatey Khola Suspended Bridge, Span 41.00m	Khiji Phalante VDC, W 6 & 7, Okhaldhunga	2073/74	N: 27°25'08.24" E: 86°22 '38.56"
14	B/WE13/14/017	Mahabhir Khola Suspended Bridge, Span 79.00m	Priti & Gupteswor VDC, W 9 & 8, Ramechhap	2073/74	N: 27°31'36.99" E: 86°16 '05.52"
15	B/WE13/14/037	Chhahare Khola Steel Truss Bridge, Span 32.00m	Duragaun VDC, W 2 & 3, Ramechhap	2073/74	N: 27°28'38.31" E: 86°13 '43.27"
16	B/WE13/14/027	Andheri Khola Suspended Bridge, Span 63.00m	Doramba & Tokarpur VDC, W 8 & 3, Ramechhap	2073/74	N: 27°31' 50.71" E: 85°55 '00.51"

17	B/EA15/13/011	Rok Khola Suspended Bridge, Span 34.00m	Sotang VDC, W 6, Solukhumbu	2073/74	N: 27°28'37.24" E: 86°48 '20.67"
18	B/EA15/13/008	Ghatte Khola Suspended Bridge, Span 65.00m	Kanku VDC, W 5 & 4, Solukhumbu	2073/74	N: 27°29'10.16" E: 86°39 '01.19"
19	B/EA21/14/002	Sobuwa Khola Suspended Bridge, Span 80.50m	Change & Hangpang VDC, W 5 & 4, Taplejung	2073/74	N: 27°19'44.10" E: 87°36 '15.07"
20	B/EA20/14/002	Guranse Khola Suspended Bridge, Span 40.00m	Shreejung VDC, W 2, Tehrathum	2073/74	N: 27°15'27.57" E: 87°30 '02.70"

Trail Bridge Sector Wide Approach

GoN Funded - Remote Area Development Committee Trail Bridges Planning for FY 2073/2074 (2016/2017)

S.No.	Bridge Name	Distict	Location		Span	Type
			Left	Right		
1	Kabeli khola	Taplejung	Lamatola-7	Lamatola -6	113	D
2	Chhusare khola	Taplejung	Lamatola-7	Lamatola -6	70	D
3	Dhunsa khola	Taplejung	Lelep-8	Lelep -9		
4	Mekwa khola	Taplejung	Ekhou-8	Ekhabu-9		
5	Kali khola	Shankhuwasabha	Bala -7	Sisuwa-9	63	D
6	Arun nadi	Shankhuwasabha	Hatiya-5	Hatiya -6	44	D
7	Sagar khola	Shankhuwasabha	Makalu-4	Makalu-4	16	T
8	Mani khola	Shankhuwasabha	Makalu-1	Makalu-1		
9	Sisuwa khola	Shankhuwasabha	Bala -1	Sisuwa-4		
10	Arun nadi	Shankhuwasabha	Makalu-6	Num-6		
11	Akbhukhola truss	Shankhuwasabha	Hatiya-2	Hatiya -3		
12	Sanju khola	Shankhuwasabha	Hatiya-1	Hatiya-1		
13	Bhakanje 2-3(Marku)	Solukhumbu	Bhakanje-3	Bhakanje-3	24	T
14	Kerung truss(Bagam)	Solukhumbu	Kerung-3	Kerung -2	24	T
15	Damku khola	Solukhumbu	Salan-6	Salyan-7	28	T
16	Tapting khola Truss	Solukhumbu	Tapting-3	Tapting=6	20	T
17	Fulwati khola	Solukhumbu	Bung-7	Chheskam-8		
18	Mandepu khola	Solukhumbu	Jubu-5	jubu-8		
19	Godawari khola	Dolakha			70	D
20	Thesing khola	Dolakha	Lamabfagar-1	Lamabagar -1	20	T
21	Tamakoshi	Dolakha	Gaurishankar-5	Gaurishankar-5	77	D
22	Kyalche baula khola	Dolakha	Gaurishankar-5	Gaurishankar-5	24	T
23	Prakyam khola Truss	Sindhupalchok	Gumba-5	Gumba-5	22	T
24	Teka khola truss	Sindhupalchok	Gumba-9	Gumba-9	20	T
25	Tusare khola	Sindhupalchok				
26	Fosani kuna	Sindhupalchok	Fulpingkatti-5	Fulpingkatti-1	104	D
27	Dubhi than	Sindhupalchok				
28	Chhidur dum -bam gaun	Sindhupalchok	Fulpingkatti-1	Fulpingkatti-3		
29	Dojnel	Rasuwa	Gatlang-9	Gatlang-9	58	D

30	Garbal khola	Rasuwa	Briddim-1	Briddim-4		
31	Medangbudu	Rasuwa	Briddim	Thuman		
32	Ghatte khola domen	Rasuwa	Haku-3	Haku -4		
33	Chhuling khola	Rasuwa	Langtang-9	Langtang-9		
34	Aankhu khola	Dhading	Sertung-1	Lapa-4	113	D
35	Raku khola	Dhading				
36	Rolmi khola Truss	Gorkha	Chhekampar-9	Chhakampar - 9	32	T
37	Namrung khola truss	Gorkha	Prok-9	Prok-9	22	T
38	Guruwang khola	Gorkha	Uhiya-8	Uhiya-9		
39	Rowal khola	Gorkha	Kashigaun-1	Manbu		
40	Sirigi gumba jho.pu.	Gorkha	Bihi-4	Bihi-9		
41	Dodare khola truss	Gorkha	Manbu-4	Manbu-5		
42	Arun khola truss	Gorkha	Kashigaun-7	Kashigaun-8		
43	Kochila	Mugu	Pina-7	Pina-7	74	D
44	Madeni	Mugu	Dhainakot	Dhainakot	56	D
45	Seri	Mugu				
46	Sumlikhola	Mugu				
47	Chhendul gumba	Dolpa	Sahartara-1,2	Lawan-7,8	68	D
48	Aankhi khola	Dolpa			73	D
49	Baulegad	Dolpa	Majhfal-8	Majhfal-8	74	D
50	Takada Dhupain	Dolpa	Narku-2	Narku-2	47	D
51	Galfa gad	Humla	Shreenagar-1	shreenagar-2	60	D
52	Thadhata kadne khola T	Humla	Kalika -5,6	Kalika-4	44	D
53	Yanchu khola Truss	Humla	Kharpunath-8	Kharpunath-9	20	T
54	Kharkhola truss	Humla	Darma	Darma		
55	Balukhola truss	Humla	Rodikot	Rodikot		
56	Okhar khola Truss	Humla	Darma	Darma		
57	Chihikhola Truss	Humla	Madana-4	Madana-8		
58	Khagadkhola Truss	Humla	Sarkideu	Sarkideu		
59	Yangar khola T/Sd	Humla	Muchu	Muchu		
60	Chartange	Humla	Dandaphoya	Hepka		
61	Shyali khola Truss	Humla	Maila-5	Maila-6		
62	Kunauta dahachema	Jumla	Badki-3,4	Badki-2	95	D
63	Brummadichaur -riya	Jumla	Brummadi chaur-1	Brummadi chaur -2	73	D
64	Gudambim -chakaar	Jumla	Kudari-7	Kudari-7	38	N
65	Buda kharsa Jho.pu	Jumla	Sholagade-7,8	Patrashi-9		
66	Panar pali chyama	Jumla	Badki-4	Badki-4		
67	Lafagad	Kalikot	Ramnakot-8	Ramnakot-9	90	D
68	Belke	Kalikot	Kalika -9	Daha-2	64	D
69	Haudigad	Kalikot	Sukatiya-9	Sukatiya-9	78	D
70	Bhuchchikhola	Kalikot	Thirpu -1	Thirpu-1		
71	Bahidhunga	Kalikot	Jubitha--1	Jubitha-9	28	T

72	Khumla khola	Kalikot	Thirpu -1	Thirpu-1		
73	Dallena khola	Kalikot	Malkot-6	Malkot-8		
74	Bataghatta	Kalikot	Malkot	Malkot		
75	Ghatte kulo	Kalikot	Odanaku-4	Odanaku-5		
76	Jakuda jho pu	Kalikot	Mumra -9	Mumra-9		
77	Mehalmudu syuna lisne	Kalikot	Syauna	Mehalmudi		
78	Mathillo kaprikhola poriban	Kalikot	Mehalmufdi	Mehalmudi		
79	Simtara	Rukum	Aathbiskot -5	Jajarkot	92	N
80	Gamrakh ghat	Rukum	Aathbiskot	Aathbiskot		
81	Mathi kharkhara	Rukum	Aathbiskot	Aathbiskot		
82	Kimana jho .pu.	Rukum	Jhola	Magma		
83	Gadde khola Truss	Rolpa	Sirpa-4	Pang-8	24	T
84	Domai khola truss	Rolpa	Jinabang-9	ota-6	32	T
85	Byang khola truss	Rolpa	Ghartigaun	Ghartigaun		
86	Bhalukhoriya Truss	Rolpa	Rangkot-8	Pachabang-6	32	T
87	Merul 2-3	Rolpa	Merul-2	Merul-3		
88	Ot Rangibang	Rolpa	Ota-8	Ota-9		
89	Okharbit	Rolpa	Rak VDC	Rak VDC		
90	Tapla khola punargaun	Rolpa	Rak VDC	Rak VDC		
91	Aaruchaur	Rolpa	Pakhapani -6	Pakhapani-6		
92	Jayachaur	Rolpa	Rak VDC	Rak VDC		
93	Triveni	Rolpa	Rangkot-5	Rangkot-5		
94	Jumlikhola	Jajarkot	Salma-7	Salma-9	40	D
95	Siun rupgad	Jajarkot	Bhagawati-9	Bhagawati-9	24	T
96	Aula khola	Jajarkot	Majkot-9	Suwanauli-1	32	T
97	Bhedamudi	Jajarkot	Jhapra--8	Pajaru-4	90	D
98	Daarkhola	Jajarkot	Ragda -7	Ragda-7	28	T
99	Sirajukhola	Jajarkot	Sima-2	Sima-4	20	T
100	Serikhola	Jajarkot	Rokayagaun-8	Ramidanda-9	51	D
101	Dhaura	Jajarkot	Dasera-2	Salma-6	32	T
102	Guyala	Jajarkot	Thalaraikar-9	Thalaraikar-9	32	T
103	Aarsikhola	Jajarkot	Pajaru-5	Pajaru-5	48	D

104	Pari khola	Jajarkot	Punma-6	Punma-2	38	D
105	Dauda khola	Jajarkot				
106	Pani mul	Jajarkot	Dhime-5	Dhime-7		
107	Bajedi khola	Achham				
108	Bajedi khola	Achham				
109	Khopadi khola	Achham				
110	Khopadi khola	Achham	Alleri Ramaroshan	Ramaroshan		
111	Kalsiji	Bajura			45	D
112	Nuwakot bagar	Bajura			78	D
113	Kalsiji Gotri	Bajura	Gotri-4	Gotri-4	70	D
114	Juddi karnali	Bajura	Sapata-3	Jaganath-1	118	D
115	Neula budhiganga	Bajura	Budhiganga-6	Budhiganga-6	90	D
116	Ghattekhol Truss	Bajura	Juead-3	Juwad-2	32	T
117	Ausel	Bajhang	Deulekh-6	Deulekh-6	48	D
118	Dehligad Truss	Bajhang	Lamatola-1	Lamatola -1	16	D
119	Shreejyula dikligad	Bajhang	Parakatne 6	Parakatne 6		
120	Selani sanigad	Bajhang	Pipalkot 1	Kaphalseri-7		
121	Musekada	Darchula	Malikarjun-7	Malikarjun-7	24	T
122	Chehade gad	Darchula	Gwani-5	Gwani-5	47	D
123	Manane khola	Darchula	Gwani-5	Gwani-2	60	D
124	chhoyapani	Darchula	Gwani-5	Gwani-5		
125	Sakare gad	Darchula	Bohori gaun 6	bohori gaun		
126	Sajigad	Darchula	Kharkhada	kharkhada		
127	Painya odar truss	Darchula	Gwani-8	Gwani-8		
128	Odir khet Truss	Darchula	Latinath-3	Latinath-3		
129	Dhari gad	Darchula	Gokuleswar-6	Gokuleswar-5		
130	Chaudegad Truss	Darchula	Gwani-5	Gwani-5		
131	Rithegad	Darchula	Bamneta	Rithachaupata		
132	Setikhola	Darchula	Etharkot	Etharkot		
133	Rolkhola Truss	Darchula	Milmile Gwani	Milmile gwani		
134	Rigur khola	Darchula	Shetola-7	Shetola-7		
135	manne Truss	Darchula	Gwani	Pipalachour		

Annex - VI:

List of Flood Damaged Bridges in 2070/2071(2014) for Reconstruction & Rehabilitation

S. N.	Bridge Name	Span (m)	Type	River Name	Year of Completion	Damaged caused by floods	Recommended action	Progress	Funding Agency
Surkhet									
1	Ranighat Suspension Bridge	237.4	SN	Bheri Nadi	2007/2008	Bridge totally swept out	New bridge to be constructed	Reconstruction expected to be completed by end of December 2016	SDC/DDC
2	Ranighat Suspension Bridge	127	SN	Bheri Nadi	1977/78	Bridge totally swept out	New bridge to be constructed	Cancelled. Motorable bridge under construction nearby	SBD/DoLIDAR
3	Jamughat Suspension Bridge	175	SN	Bheri Nadi	1984/85	Bridge totally swept out	New bridge to be constructed	Bridge undertaken by SBD/DoLIDAR	SBD/DoLIDAR
4	Ghatgaun Suspension Bridge	355	SN	Bheri Nadi	2010/11	Bridge totally swept out	New bridge to be constructed	Rehabilitation/ Reconstruction expected to be completed by end of February 2016	SDC/DDC
5	Jude Suspension Bridge	144	SN	Bheri Nadi	1995/96	Flood hitting the R/B-	Major maintenance	MM completed in 2015/2016	SDC/DDC
6	Lamiraha Truss	32	ST	Goche Khola	2012/2013	Flood hitting the R/B-	Bank protection of right bank required immediately.	MM completed in 2015/2016	SDC/DDC
7	Barhatal/ Taranga	223	SN	Bheri Nadi	2001/2002	Right bank tower block totally swept away to another bank.	New bridge to be constructed	Completed in FY 2015/2016	SDC/DDC
8	Sanjha ghat Suspension Bridge	242	SN	Bheri Nadi	2010/2011	Right bank tower heavily scoured, upstream and down stream windguy block and staywire block swept away, four cross beams broken, Staircase swept away by flood. Left bank upstream windguy block scoring	Needs to remove immediately windguy arrangement. Maintenance to be done: (1) Windguy block to be newly constructed (2) Staircase new construction (3) Protection of Right bank tower foundation.	MM completed in 2015/2016	SDC/DDC
9	Kol khola	74.2	SD	Kol khola	2004/05	Totally damaged	Needs new bridge construction.	Completed by SBD	SWAp
10	Sot Khola	60.6	SD	Sot khola	2001/02	Totally damaged	New bridge construction	Completed in 2015/2016	SDC/DDC
11	Sanghu Truss	32	ST	Goche khola	2012/013	Scouring of right bank	Bank protection.	MM completed in 2015/2016	SDC/DDC
12	Sot Khola	93	SN	Sot khola	2007/08	Scouring of left and right bank	Needs bank protection.	MM completed by July 15	SWAp
Dang									
1	Gothali Ghat	115	SN	Babai	2011/012	Right bank tower foundation and steel tower has been collapsed. Left bank steel tower is damaged. Cannot be rehabilitated. Needs to replace by new bridge.	Needs new construction. Some steel parts from collapsed bridge may be used.	Completed by SBD/DoLIDAR	SWAp
2	Goltakuri Ghat	167.8	SN	Babai	2003/04	Right bank tower foundation and main anchorage foundation are in vulnerable conditions due to under scouring. Wind Guy block of D/S at R/B has been collapsed. Walkway is tilted.	Needs to immediately dismantle the W/G arrangement. Needs protection of MAB and tower foundation and W/G block of R/B. Needs construction of W/G block of D/S at R/B, re-hoisting of W/G and re-adjustment of Walkway (Rehabilitation)	Under construction	SDC/DDC

3	Sitka Ghat	201	SN	Rapti	2003/04	Windguy foundation of U/S at L/B has been washed away. Damaged W/G System and heavily tilted walkway.	Reconstruction of the collapsed W/G block, re-hoisting of W/G system and re-erection of walkway.	MM completed in 2015/2016	SDC/DDC
4	Bilashpur	201	SN	Babai	1993/094	Main Anchorage Foundation at R/B is in vulnerable condition.	Needs protection works at MAB of R/B.	MM completed in 2015/2016	SDC/DDC
5	Rui Khola Truss Bridge	32	ST	Rui	2009/10	River under cutting at L/B.	Needs river bank protection work at L/B.	MM completed in 2015/2016	SDC/DDC
Banke									
1	Buchapur Ghat	114.0	SN	Jhijari Khola	2013/014	Ramp has been collapsed. Deep underscore around Tower foundation of left bank.	Reconstruction of Ramp but with vent pipes, treatment and protection of underscored part of tower foundation.	MM completed by December 2016	SDC/DDC
2	Duduwa/ Chatar Bandh	110.0	SN	Duduwa	2055/056	Main Anchorage Block at L/B has been collapsed.	Needs to: dismantle immediately the walkway, re-investigate the site for possibility of re-habilitation.	Reconstruction expected to be completed by end of December 2016	SDC/DDC
Bhojpur									
1	Yoga Maya Shaktipit					Wind guy block and main anchorage block damaged	New bridge construction.	Under construction by SBD	SBD/DoLIDAR
Bardiya									
1	Akshria	75.0	SN	Akshria	2013/014	Heavy bank erosion at R/B	Needs bank protection works.	Completed in FY 2015/2016	SWAp
2	Kusma Ghat	250.0	SN	Babai	2013/014	Whole bridge collapsed and washed away.	Needs new bridge construction.	Work initiated by SBD/DoLIDAR	SBD/DoLIDAR
Sindhupalchowk									
1	Jure Sunkoshi	142.0	SD	Sunkoshi	2009/010	Whole bridge submerged due to formation of dam.	Needs new bridge construction.	Work to be initiated	SWAp

TBs that need Major Maintenance/Rehabilitation: 11TBs (SDC/DDC: 9 TBs, SWAp/DDCs: 2 TBs)

TBs that need Reconstruction: 12 TBs (SDC/DDCs: 6 TBs, SWAp/DDC: 3TBs and SBD/DoLIDAR: 4TBs)

Progress:

- **Major maintenance/Rehabilitation completed: 8 TBs**
- **Reconstruction completed: 4**
- **Cancelled: 1 TB**

Annex - VII:

List of Flood/Landslide Damaged Bridges in 2071/2072 (2015) for Reconstruction & Rehabilitation

S.N	Number	Bridge Name	Type	Span	River Name	Left Bank VDC	Right Bank VDC	Completi on FY	Funding Agency	Major damage	Damage Caused by	Status
Taplejung												
1	2 5 029 18 06 03	Perunge	D	68.9	Maiwa Khola	Thinglabu-8	Dhungesangu-7	2000/2001	DDC/SDC	Collapse	Landslide 2072	Steel part procurement and construction will be executed in FY 2016/17
2	01 5 006 18 06 03	Banketar	D	61	Tawa Khola	Surumkhim	Khewang	2004/2005	KAABGN	One side Anchorage collapse	Landslide 2072	
3	01 5 039 18 06 2	Dema/ Mewa khola	D	113	Mewa Khola	Liwang	Lingtep	2012/2013	DRILP/SDC	One side Anchorage collapse	Landslide 2072	
4	01 5 007 18 06 3	Hang Khola	D	43.5	Hang Khola	Mamangkhe	Mamangkhe	2006/2007	DRILP/SDC	One side Anchorage collapse	Landslide 2071	
5	01 5 036 18 06 3	Lodumba	D	62.2	Simpu Khola	Fakumba	Shanghu	1999/2000	KAABGN	One side Anchorage collapse	Landslide 2072	
6	01 5 036 18 06 5	Kharte	D	28.4	Neruwa Khola	Sanghu 2	Fakumba 1	1979/1980	DDC	Collapse	Landslide 2072	
7		Heluwa	N	55	Maiwa Khola	Phakumba-7 & Thinglambu-4		1979/1980	LOCAL	Collapse		
8		Sisnwa-1	N	37.8	Sisnwa khola	Tapethok-6	Tapethok-2		LOCAL			
9		Sisnwa-2	N	42.7	Sisnwa khola	Tapethok-6	Tapethok-2		LOCAL	Collapse		
10		Lodumba		50	Lodimba	Khadimba	Sangu-9					
11	01 5 015 18 06 01	Devidaha	D	65.2	Hapu Khola	Ambegudin	Ambegudin	2003/2004	KAABGN	One side Anchorage collapse	Landslide 2072	Rehab being done by KAAA-BGN
12	BEA2199013	Kharte	D	56	Neruwa Khola	Fakumba 1	Dhungesangu-7	2006/2007	KAABGN	Collapse	Landslide 2072	Site assessment conducted by KAAA-BGN
13	BEA2194017	Thukiya	D	69	Maiwa Khola	Thinglabu	Fakumba 8	1995/1996	KAABGN	Collapse	Landslide 2072	Under construction by KAAA-BGN
14		Thing Thewa-1	N	45	Thing Thewa Khola	Lingtep		1979/1980		Collapse		Site assessment conducted
15		Thing Thewa-2	N	42	Thing Thewa Khola	Lingtep - 4 & 5		1979/1980		Collapse		Site assessment conducted
16		Chawakhola/seph ibagari	D	49	Chawa Khola	Kali khola-5	Kali khola-4	2006/2007	DRILP/SDC	Collapse		Site assessment conducted

17		Thing Thewa-3	N	40	Thing Thewa Khola	Lingtep - 4 & 5		1979/1980		Collapse		Site assessment conducted
18		Tumme	N	47	Neruwa Khola	Sanghu-2 & Phakumba-1		1979/1980	Local	Collapse		Site assessment conducted
Sankhuwasabha												
1	9502518062	Andhery Dovan	D	84	Hewa	Siddhapokhari	Jaljala	2012/2013	SDC	Bridge completely washed out	Flood	Land dispute
2	950018061	Namring	D	36.5	Sankhuwa	Tamku	Bala	1998/1999	SDC	Bridge completely washed out	Flood	Material at Itahari Store
3	095 0061 80 608	Sikidam	D	48	Sankhuwa	Tamku-9	Bala-9		DDC	Bridge completely washed out	Flood	Material Handed over
4	095 0061 80 603	Aluwa	D	84	Sankhuwa	Tamku-8	Bala-8	2066/2067	DDC	Bridge completely washed out	Flood	Material Handed over
5	95014180607	Chasuwater	D	40	Ekhuwa	Pawakhola-6	Pawakhola-7	2037/2038	GON/SDC	Bridge completely washed out	Flood	Material at Itahari Store
6	95019180603	Bimire	D	57.3	Hewa	Jaljala	Chainpur	2003/2004	SDC	Bridge completely washed out	Flood	No damages
7		Satpatre	D		Hewa	Wana	Chainpur			Bridge completely washed out	Flood	No damages
8	95020180601	Nigure	D	35	Hewa	Wana	Chainpur		GON/SDC	Bridge completely washed out	Flood	No damages
9		Ekhuwabagar	D	60	Ekhuwa	Pawakhola 8	Pawakhola-5			Washed out Steel Parts	Flood	Recommend d for LSTB
10	095 009 18 06 03	Aawaphedi	D	81	Arun	Pathivara	Noom		GON	Bridge completely washed out	Flood	Material at Itahari Store
11		Kasuwa	D	57.7	Kasuwa	Pathivara-9	Makalu-1		RADC	Damage bridge	Flood	
12		Chimchime	D		Induwa khola	Num-1	Num-2			Under construction damaged		Site assessment done
13		Thadokhola	D	104	Thado khola	Hatiya-7	Hatiya-7		BBLL	Bridge completely washed out		LSTB being constructed
Khotang												
1		Sirubari	SD	57.2	Tawa Khola	Mattim-6	Chhitapokhari	1999/2000	BBLL	Fully Damaged	Flood	Concreting carried out
2		Sangutama	SD	47	Makuwa Khola	Mattim-	Ratancha	2004/2005	BBLL	Foundation Damage	Flood	Material handed over
3		Jabretar	ST	32	Tawa khola	Chhitapokhari-	Mattim-6	2007/2008	BBLL	Right Bank damage	Flood	Material at Bardibas store conducted

4		Bunwa khola	SD	133.8	Banuwa khola	Devisthan	Devisthan		DDC	Bank erosion	Flood	Completed in FY 2015/2016
5		Simpani (Jyamire)	SD	39.2	Tuwa khola	Simpani-8	Batase-9	1998/1999	BBLL	Bank cutting	Flood	Concreting carried out
6		Runkhu Dovan	SD	68	Sapsu khola	Ratanchha-4	Chiuridanda	1999/2000	BBLL	Partially Damaged	Flood	Soil mass slide
7		Vermi	SD	44	Tawa Khola	Mattim-4	Temba-9	1983	KAAA-BGN	Fully Damaged	Flood	
8		Kalidaha	SD	57	Tawa Khola	Mattim-6	Chhitapokhari	2004	KAAA-BGN	Partially Damaged	Flood	New construction being done by KAAA-BGN
9		Pugmapuchhar/Tawa khola Pung	SD	34.3	Tawa Khola	Phidima-7	Phidima-8	1993	KAAA-BGN	Partially Damaged	Flood	Rehab being done by KAAA-BGN
10		Tawa Khola/Kiwadovan	ST	28	Tawa Khola	Phidima-3	Phidima-8	1998	KAAA-BGN	Partially Damaged	Flood	New construction being done by KAAA-BGN
11		Lamiduwali	SD	52	Sapsu khola	Ratanchha-4	ChauriDanda	1997	KAAA-BGN	Partially Damaged	Flood	Rehab being done by KAAA-BGN
Okhaldhunga												
1		Likhu Poku	D	104	Likhu khola	Gamnangtar-1 Okh	Saipu-1, Rmchp	2007	DDC	One side Anchorage collapse	Flood	Material handed over
2	81.12.07.09	Juke Dovan	D	53	Juke Khola	Yasam-2	Gamnangtar-1	2008	DRILP	Collapse	Flood	Completed in FY 2015/2016
Illam												
1		Gukule	D	100	Karfok khola	Chisapani-	Gotak	2056 BS	SSTB-D	Damage	Flood	Completed in FY 2015/2016

Total no. of TBs damaged: 42 (3 of the initially identified TBs did not require MM/Rehab/Re-construction)

Progress:

Completed: 3 TBs

SSTBs being replaced by LSTBs: 2 TBs

Under construction by DDCs: 29 TBs

Under construction by KAAA-BGN: 7 TBs

Annex - VIII:

List of Earthquake Damaged Bridges in 2071/2072 (2015) for Reconstruction & Rehabilitation

SN		District	Bridge Name	Span (m)	Type	River	VDC		Details of Damage	Year of Completion	Progress
							Left Bank	Right Bank			
1	1	Gorkha	Dhodeni	59	SN	Daraudi	Saurpani	Sinjung	Cable broken (Published at Kantipur)	NA	MM under construction
2	2		Baluwa	186	SD	Daraudi	Saurpani	Sinjung	LB, Foundation covered by landslide	NA	Replaced by RCC bridge
3	3		Chanaute	72	SN	Daraudi	Takumajha	Muchok	LB, Foundation block damaged	2003	MM under construction
4	4		Tatopani	55	SN	Budigandaki	Kerauja	Uijya	LB, Foundation covered by landslide	na	Completed in FY 2015/2016
5	5		khanibesi	100	SD	Budigandaki	Kansigaun	Gumda	LB, Block cracked	2009	Completed in FY 2015/2016
6	6		Rangrung	42	LD	Rangrung khola	Barpack	Barpack	Wooden deck & cross beam damaged	NA	Completed in FY 2015/2016
7	7		Armala Budhi gandaki			Budhi gandaki	Manuwa	Thumi			
8	1	Rasuwa	Chhepar Khola	71.3	SD	Chhepar Khola	Yarsa	Yarsa	RB MAB damaged due to land slide	2013	Completed in FY 2015/2016
9	2		Chhepar chaur	90	SD	Chhepar Khola	Yarsa	Yarsa	RB, crack at block and G. load damaged, LB, gravity load damaged	2013	Completed in FY 2015/2016
10	3		Phalaku Khola (Chhepar Pucchar)	62	SD	Phalaku Khola	Saramthali	Yarsa	RB, crack at block. LB deadload damaged due to land slide	1998	Completed in FY 2015/2016
11	4		Khyanjo	44	SD	Phalaku Khola	Yarsa	Yarsa	LB, Gravity load damaged	2000	Under planning process
12	5		Machet Khola	98.3	SD	Machet Khola	Yarsa	Yarsa	RB, Foundation block damaged	2008	Completed in FY 2015/2016
13	6		Paire Khet	75	SD	Machet Khola	Yarsa	Yarsa	LB, Foundation block settled	2013	Completed in FY 2015/2016
14	7		Basbhanjyang	99	SD	Phalaku Khola	Saramthali	Bhorle	RB, Gravity load damaged due to rock fall	2000	Completed in FY 2015/2016
15	8		Kaidale Tar	82.3	SD	Trisuli	Tupche	Laharepauwa	LB, Gravity load damaged	NA	Completed in FY 2015/2016
16	9		Thuwar Khola	87	SD	Thuwar Khola	Lamtang	Lamtang	Bridge damaged, MM required	NA	Locals were internally displaced, later they came back and now DDC has decided to go for MM
17	10		Basitane	93	SD	Phalaku Khola	Saramthali	Bhorle	RB, Gravity load damaged,	2012	Completed in FY 2015/2016

SN	SN	District	Bridge Name	Span	Type	River	Type		Details of Damage	Year of Completion	Progress
							Left Bank	Right Bank			
18	11	Rasuwa	Bhaga Chaur	92.5	SD	Phalaku Khola	Saramthali	Bhorle	One of the MAB damaged	2013	Completed in FY 2015/2016
19	12		Ghatte Khola	88	SD	Yubra Khola	Yarsa	Yarsa	Block damaged due to land slide	2013	To be maintained this year if budget allows
20	13		Betrawati (old)	45	LD	Phalaku Khola	Laharepauwa	Gerku/Nuwakot	LB, Masonry Tower damaged	NA	Cancelled due to Motorable bridge nearby
21	14		Pangre Dovan (Bhagachaur)	72	SD	Phalaku Khola	Bageswari	Bhorle	RB, Foundation settled, B'warden death LB, Gravity load damaged	2001	Completed in FY 2015/2016
22	15		Grecho	55	SD	Trisuli	Dandagaun	Ramche	Walkway completely damaged	NA	Internal displacement occurred in Lamtang area after EQ, and DDC decided to start MM only after the IDPs return
23	16		Palphakhola	62	SD	Lamtang	Lamtang	Lamtang	Completely washed out	2002	Internal displacement occurred in Lamtang area after EQ, and DDC decided to start MM only after the IDPs return
24	17		Salimbhitta	66	SD	Andherikhola	Thulogaun	Manakamana, Nuwakot	Lt Tower Damaged	2001	Completed in FY 2015/2016
25	18		Paa khola	65	SD	Paa Khola	Bhorleni	Bhorleni	R/B MAB damaged	2003	Completed in 2014/2015
26	19		Arukharka	60	SD	Ghatte Khola	Yarsa	Yarsa	L/B Deadload damaged	2004	Completed in FY 2015/2016
27	20		Dharna Bridge	91	SD	Phalaku Khola	Saramthali	Yarsa	R/B Deadload damaged	1998	Completed in FY 2015/2016
28	21		Memilung	65.3	SD	Yubra Khola	Saramthali	Saramthali	Deadload structure damaged at right bank	NA	Completed in FY 2015/2016
29	22		Tipling Bridge	82	SD	Tipling Khola	Yarsa	Yarsa	HR saddle damaged at L/B side due to rock fall	2001	Completed in FY 2015/2016

SN	SN	District	Bridge Name	Span	Type	River	VDC		Details of Damage	Year of Completion	Progress
							Left Bank	Right Bank			
30	1	Dhading	Katahare	70	SD	Thopal Khola	Sunaula Bazar	Muralibhanjyang	HRC cable broken, walway tilted	2000	Completed in FY 2014/2015
31	1	Sindhupalchowk	Nesham Khola	69	SD	Nesham Khola	Gumba	Gumba	cable broken	NA	Under construction
32	2		Rampate Amare	62.9	SD	Rampate Aare	Dubachaur	Melamchi	Rt bank Deadman movement	1999	Completed in FY 2015/2016
33	3		Jambu Bridge	77	SD	Bhotekoshi Khola	Gati	Maneswara	Gravity load damaged	NA	Completed in FY 2015/2016
34	4		Damsite	60	SD	Indrawati Khola	Lagarche	Banshkharka	Lt tower damaged	2009	Completed in FY 2015/2016
35	5		Melamchi Khola	50.6	SD	Melamchi Khola	Kiul	Ichok	Deadload damaged at both bank	1999	Completed in FY 2015/2016
36	6		Bhotekoshi	85.4	SD	Bhotekoshi Khola	Barhabise	Ramche	RB tower damaged	1995	Completed in FY 2015/2016
37	7		Sunkoshi Chardham	65	SD	Sunkoshi	Kalika	Kodaribas		Investigation completed	Cancelled due to motorable TB nearby
38	8		Jalbire	110.2	SN	Balephi Khola	Jalbire	Batase	Walkway damaged	1988	Comparatively less priority. To be maintained this year if budget allows
39	9		Yangri Dovan	110	SD	Yangri Khola	Bhotang	Baruwa	One of the MAB damaged	2001	Completed in FY 2015/2016
40	10		Katunjabeshi Ranitar	63.9	SD	Balefi Khola	Kotphulpung	Batase	One of the MAB damaged	2010	Completed in FY 2015/2016
41	11		Bhainse Sunkoshi	107.3	SD	Sunkoshi	Yamundanda	Kadambas	Gravity load damaged @ Lt bank	1997	Completed in FY 2015/2016
42	12		Indrawati	69.2	SD	Indrawati Khola	Jyamere	Dubachaur	Gravity load damaged, wall cracked	1997	Completed in FY 2015/2016
43	1	Sindhuli	Pacharang	112	SD	Bhalukhola	Jarayotar	Jarayo Tar	Gravity load damaged	2005	Completed in FY 2015/2016
44	2		Jhakri Khola	68	SD	Jhakri Khola	Arun Thakur	Arun Thakur	Tower cracked	2000	Completed in FY 2015/2016
45	1	Dolakha	Busti	66.6	SN	Tamakoshi	Namdu	Bhimeshwar Municipality	Main anchorage block damaged at Rt bank	1933	To be maintained this year if budget allows
46	2		Bhyakure	105	SD	Tamakoshi	Japhe	Ghyen Sukathokar	Tower cracked	2009	Completed in FY 2015/2016
47	3		Pikhuti	33.6	SD	Tamakoshi	Jugu	Lamidanda	HRC cable broken in upstream side	1978	Completed in FY 2015/2016
48	4		Jhangrali	100.2	SD	Tamakoshi	Jyaku	Laduk	L/B limbwall and Deadman damaged	2011	Under progress
49	5		Susintar mar	77	SD	Khahare Khola	Khare	Changkhu	Main anchorage block damaged at one bank.	2011	Completed in FY 2015/2016

SN	SN	District	Bridge Name	Span	Type	River	VDC		Details of Damage	Year of Completion	Progress
							Left Bank	Right Bank			
50	6	Kavre	Sirke Dovan	118	SD	Bagmati	Salmechakal	Phaparbari	Both Bank, Gravity load damaged	2001	To be maintained this year if budget allows
51	7		Phyang Khola	55	SD	Phyang Khola	Saldhara	Milche	Both tower cracked	NA	To be maintained this year if budget allows
52	8	Manang	Hulaki Odar	31.3	SD	Naar Khola	Naar		One WWC fence cable of 13 mm broken and approx 12 steel deck 6 C/beam damaged	2005	Completed in FY 2015/2016
53	9		Mada Bridge	51.4	SD	Mada Khola	Chamr		Gravity structure at Rt bank fell down	1999	Completed in FY 2015/2016
54	10	Lamjung	Rudi khola	120	SD	Rudikhola	Mijure,Kaski	Karapu,Lamjung	Dead load wall damaged at R/Bank	2007	Completed in FY 2015/2016
55	11		Langdi khola	87	LD	Langdi khola	Bichaur	Ilampokhari	One side one part damaged of masonry tower	2008	Completed in FY 2015/2016
56	12		Dordi Khola	72	SD	Dordi Khola	Dhodeni	Phaleni	RB Main Anchorage Block damaged	2002	Completed in FY 2015/2016
57	1	Ramechhap	Jamune Milti	87	SD	Milti Khola	Dandakharka	Phulasi	Tower Cracked at both Banks	2005	Comparatively less priority, To be maintained this year if budget allows
58	2		Karambot	106	SD	Tamakoshi	Manthali	Chisapani	L/B tower cracked	2000	Completed in FY 2015/2016
59	3		Haledibesi	129.7	SD	Tamakoshi	Gelu	Tilpung	L/B tower cracked	2001	Completed in FY 2015/2016
60	1	Nuwakot	Simkhet	148	SD	Trisuli	Jiling	Khadgabhanjyang	Rt bank foundation block damaged, Deadmen at both bank damaged	2007	Completed in FY 2015/2016
61	2		Ramati	70.2	SD	Chandrawati	Sikharbesi	Samundratar	Rt bank foundation block damaged,	2008	Completed in FY 2015/2016
62	3		Dhodeni	120	SD	Trisuli	Ratmate	Budhsingh	Foundation wall cracked	2002	Completed in FY 2015/2016
63	4		Salankhukhola	89	SD	Salankhukhola	Mankamana	Tupche	Foundation wall cracked	1978	Comparatively less priority, To be maintained this year if budget allows
64	5		Subhaghat	112	SD	Trisuli	Gerku	Bidur Municipality	Foundation wall cracked	2007	Completed in FY 2015/2016

SN	SN	District	Bridge Name	Span	Type	River	VCD		Details of Damage	Year of Completion	Progress
							Left Bank	Right Bank			
65	1	Udaypur	Majuwaphedi Bridge	79	SD	Bajjnath	Bhalayadada # 6	Dumre # 5	Crack observed in Limb wall and tower block	2014	Minor works conducted. TB is in good condition
66	1	Panchthar	Sanbutar Truss	32	ST	Sawa Khola	Sarangdada # 3	Sarangdada # 3	2 tree fallen on bridge resulted bridge tilted	NA	The trees were removed. TB is in good condition
67	1	Myagdi	Kaligandaki	93	SD	Kaligandaki	Ramche	Bhagwati	Completely damaged by land slide of 23rd May	2004	Cancelled. Replaced by Baisari Bridge as CNC
68	2		Kaduri Bridge	105	SD	Kaligandaki			Completely damaged by land slide of 23rd May	NA	

Progress:

- **Completed: 52 TBs**

Annex-IX

List of Tuins to be replaced by Trail Bridges Implemented by DDCs

List of Tuins to be replaced by DDCs

No.	District	SN	Name of Tuin	River name	VDC		Span (m)	Bridge Type	Progress Status	
					Left	Right			Fabrication	Construction
1	Ghorkha	1	Bhuwanitar	Marsyandi	Mankamana	Aabukhaireni	107	SSTB/D	Contract Award	CA
2		2	Huiling Tar	Trisuli	Jogimara (Dhading)	Bhumlichowk	77	SSTB/D	Contract Award	CA
3	Lamjung	1	Bhalurumta (Doradi khola)	Dordi khola	Dhodeni 1	Chiti 3	75	SSTB/D	Contract Award	CA
4		2	Jhareswora(Bansar Besi)	Chilli khola	Kolki 9	Bhalayekharka 9	88	SSTB/D	Contract Award	CA
5		3	Chepe Khola	Chepe Nadi	Hansapur 8(gorkha)	Ilampokhari 5	84	SSTB/D	Contract Award	CA
6	Tanahu	1	Solung ghat	Seti Nadi	Keshavtar 4	Baidi 1	118	SSTB/D	Contract Award	
7		2	Bajare Ghat (Bimalnagar)	Chundi Khola	Bhanu MCP 1	Bandipur MCP 6	85	SSTB/D	DPR forwarded to DDC	DDC Cancelled as Bridge is not needed
8		3	Yampa Haleti Aapchour	Marsyangdi	Palungtar (Gorkha)	Bandipur MCP 5	87	SSTB/D	DPR forwarded to DDC	
9		4	BelBas	Seti Nadi	Byas NP 12	Kahun Shaivpur 1		LSTB	DDC Decided, bridge is not needed	DDC Cancelled as Bridge is not needed
10		5	Puranosarang ght (Dharampani)	Seti Nadi	Bandipur 9	Devghat 7		LSTB	DPR Completed	
11		6	Khahare khadibagar	Seti Nadi	Bandipur 9	Chipchhpe 1		LSTB	DPR Completed	
12		7	Balimarang	Kaligandaki	Bhirkot 1	Kotthar 6	140	LSTB	Contract Award	Acceptance Due to DPR
13	Gulmi	1	Seuradi	Khowanchis khola	Thulo lumpek-5	Thulo lumpek-4	60	SSTB/D	Bid Evaluation	
14	Nawalparasi	1	Kusunde Dovan Sadh Khola (Apasuara)	Sadh khola	Bulung tar	Dandajheri	50	SSTB/D	Bid Evaluation	

15	Myagdi	1	Lekha gaun	Kaljara Khola	Narchyang 1	Narchyang 7	100	SSTB/D	DPR in progress	List recently received
16		2	Gaunbheda	Kaligandaki	Histan 9	Begkhola 9		SSTB/D	DPR in progress	
17	Rukum	1	Kimubot	Rum gad	Rukumkot 4	Kanda 1	67	SSTB/D	Steel parts fabrication in progress	First Phase work completed (wire rope cable delivered)
18		2	Dhaura gar	Dhaura gad	Sisne 9	Sisne 9	22	ST		
19		3	Khalibang	Uttarganga	Taksera	Taksera	54.5	SSTB/D		
20		4	Jipulijiula	Sano bheri	Syalapakha	Pipal	80.5	SSTB/D		
21		5	Pedi khola	Tuwangkholo	Khang 8	Khang 6	32	ST		
22		6	Puchchibang	Ranma khola	Hukam	Ramnamaikot	57	SSTB/D		
23		7	Ruji Khola	Lukumkhola	Kankri 7	Kankri 7	85	SSTB		
24		8	Bhal khola	Sano kheri	Syala pakha	Bakikot	118	SSTB/D	Fabrication completed	CA Done
25		9	Chiptara	Sanobheri	Kanda 8	Khang 1	146	LSTB/D	Tender under progress	
26	Darchula	1	Sitoli simar	Chameliya	Rudresware	Shikhar	120	SSTB/N	Contract signed with junkiri indus., Steel parts fabrication under progress	CA Done
27		2	Jarbagar	Naugad	Dethala	Dethala	32	SSTB/ST		CA Done
28		3	Gogane	Naugad	Khar	Khar	60	SSTB/D		CA Done
29		2	Gitachaur (Bahunmare)	Chhamghat	Raniban 9	Bansi 1	77	SSTB/D	Contract signed with junkiri indus.	Community Agreement
30	Surkhet	1	Bhattesera/Rigne	Gutu Khola	Bidhyapur 2	Gutu 9	60	SSTB/D	Steel parts delivered at site	First Phase work
31		2	Dab	Dab Khola	Babiyachaur 7	Babiyachaur 3	90	SSTB/D		
32		3	Raiker	Bheri	Majhkanda 7	Kaprichaur 1	120	SSTB/D		Physically completed
33		4	Jharkhet	Chaur khola	Pokharikanda3	Pokarikanda 3	150	SSTB/D	Tender in progress	First Phase work(one bank TB completed)

34		5	Tallobarha garh	Bheri	Bheriganga 13	dashrathpur 3	151	LSTB/D	Tender Published	
35	Achham	1	Guta Khola/Parikhet	Guta Khola	Devisthan	Devisthan	58	SSTB	Contract signed for steel parts procurement (Malika Engineering)	CA Done
36		2	Rawadabh	Sarani gad	Kuskot	Kuskot	106	SSTB		CA Done
37	Doti	1	Malumela	Saili Gad	Daud 7	Daud 7	53	SSTB/D	Tender Published	CA Done
38		2	Kunkuntada LSTB	Seti	Latamandu 7	Barapata 9	147	LSTB/D	Contract signed with contractor	
39		3	Chole Gad	Chhole gad	Kadamandu 7	Sanagaon	60	SSTB/D	Steel parts delivered and in underconstruction stage	CA Done
40	Bajura	1	Rughakhola	Budhiganga	Badimalika MCPT 6	Badimalika MCPT 5	95.88	SSTB	Steel parts procurement contract signed (Malika Engineering)	
41		2	Jukena	Budhiganga	Dahakot 5	Dahakot 5	30	ST		
42		3	Bhuka Karnali	Karnali	Sappata 4	Gotri 4	81	SSTB		
43		4	Bhaktebagar	Budhiganga	Badimalika 1	Badimalika 3	72	SSTB		
44	Jajarkot	3	Mani mala/ Garchha	Kholi Khola	Pajaru7	Garkhakot 3	90	SSTB/D	Steel parts fabrication under progress	
45	Kavre	1	Maluwabesi	Sunkoshi	Birdadeurali-7	Boldephediche-8	120	SSTB/D	Tender published	
46	Rasuwa	1	Bandre	Trishuli	Ramche -8	Thulogau -7	132	LSTB/D	Fabricated	
47	Dhading	1	Kumpur Kharamtar	Trishuli	Gajuri -2	Kumpur -4	155	LSTB/D	Tender awarded	Under Construction
48	Chitwan	1	Bagandi	Trishuli	Kabilas - 4	Deughat - 9	146	LSTB/D	DPR finalized and approved by DDC	

49		2	Dharapani	Trishuli	Darechok - 9	Tanglichok - 9	96	SSTB/D		CA Done
50	Humla	1	Chafetadi	Humla Karnali	Shree Nagar, Humla	V.Mugu	97	SSTB/D	Fabrication notice published	
51	Mugu	1	Fotu	Mugu Karnali	Fotu ,Mugu	Fotu ,Mugu	100	SSTB/D	Fabrication completed and materials delivery at site	CA Done
52		2	Dolfu	Mugu Karnali	Magri,Mugu	Magri,Mugu	70	SSTB/D	Fabrication completed and materials delivery at site	CA Done
53	Kalikot	1	Dhanada	Tilanadi	Tilanadi	Rachuli,Kalikot		SSTB/D	Fabrication completed	
54		2	Birhamod	Tilanadi	Tilanadi	Pakha,Kalikot		SSTB/D	Fabrication completed	

Annex-X

List of Tuins to be replaced by Trail Bridges Implemented by SBD/DoLIDAR

SN	District	Location of Tuin	Name of bridge	Right bank of VDC	Left bank of VDC
1	Bhojpur	Jigethapar Bridge	Sunkoshi	Dummana 6, Jogepatahar	Babla-5, Udaypur
2	Khotang	Sawakhola bridge	Sawakhola	Damarkhu Sibalaya	Sawa kathare
3	Khotang	Badelbesi	Liding Khola	Bakachal-7, Khotang	Rakha-8, Modi
4	Udaypur	Basbote Halesi	Sunkoshi	Swarung, Chhabise	Dhikuwa
5	Udaypur	tawakhola batari saklaha	Tawakhola	Katari-8	Soklaha
6	Dhading	Chiraudi Dovan	Trishuli	Kaller-3	Bairini-9
7	Dhading	Bhutiya Ghat	Trishuli	Kaller 6	Bairini 7
8	Dhading	Jareghat	Trishuli	Kumpur 5	Pida 1
9	Dhading	Ghatbesi Bangi	Trishuli	Kumpur 5	Pida 2
10	Dhading	Malinga Gomati Dovan	Trishuli	Salang	Benighat
11	Dhading	Ghusa Gabisa Bhawan	Trishuli	Ghyalchowk	Dhusa 1
12	Dhading	Humdi Khola Dodhan	Trishuli	Gorkha	Jogimara, Dhading
13	Nuwakot	Jiling	Trishuli	Jiling	Khadakbhanjyang
14	Lalitpur	Ashrang, Manthali	Bagmati	Ashrang	Manthali
15	Lalitpur	Suwani Besi	Bagmati	Gimdi	Manthali
16	Lalitpur	Gimdibesi	Bagmati	Gimdi	Betini
17	Lalitpur	Katunbesi	Bagmati	Ghusel	Sisneri
18	Lalitpur	Chagatara Chadbesi	Bagmati	Ghusel	Sisneri
19	Lalitpur	Hunchibesi	Bagmati	ThulaDurlung	Betini
20	Makwanpur	Deujar	Bagmati	Sindhuli	Jhuwadi 9
21	Makwanpur	Farsa	Bagmati	Farsa 1	Ramechhap
22	Makwanpur	Kerabari	Bagmati	Kerabari 7	Lalitpur
23	Makwanpur	Samri Khola	Kali Khola	Samrikhola	Aambhanjyang
24	Makwanpur	Churi Bagaicha	Rapti Khola		Chiuri Bagaicha
25	Makwanpur	SimalDuwar	Rapti Khola		Gandaki
26	Makwanpur	Ganesh Gaun	Kulekhani khola	Ganesh Gaun	Ganesh Gaun
27	Makwanpur	Sungure	Kulenadi	Barammate	Sungure 8
28	Chitwan	Kabilash-6, Simaltal	Trishuli	Tanahu	Kabilash-6
29	Chitwan	Darechowk-3	Trishuli	Gorkha	Darechowk 3
30	Chitwan	Darechowk-4	Trishuli	Gorkha	Darechowk 3
31	Chitwan	Darechowk 5	Trishuli	Gorkha	Darechowk 3
32	Nawalparasi	Jhokefaat	Kaligandaki	Ratanpur 3	Kota vdc 3, Tanahu
33	Nawalparasi	Makku Faat	Kaligandaki	Ratanpur	Kota vdc 3, Tanahu
34	Nawalparasi	Majhdanda	Kaligandaki	Kotathar 6	Bhirkot Gabisa 8, Tanahu
35	Nawalparasi	Jaldevighat	Kaligandaki	Bhirkot 5, Tanahu	Danabheri

SN	District	Location of Tuin	Name of bridge	Right bank of VDC	Left bank of VDC
36	Arghakhanchi	Dammar Khola	Rapti Khola	Julukey Arghakhanchi	Bougesal, pyuthan
37	Tanahu	Makku Faat	Kaligandaki	Nawalparasi	Kota,, Tanahu
38	Tanahu	SimalTal	Trishuli	Chimkeshwori, Tanahu	Darechowk, Chitwan
39	Tanahu	Bhirkot	Kaligandaki	Dandajheri Tadhi	Bhirkot-5
40	Gorkha	Hiklung	Trishuli	Jhumlichowk	Jogimara, Dhading
41	Jumla	Anchughat Simela Bridge	Tila	Chilkhaya 6	Simla Jumla
42	Kalikot	Karnali Belkudhunga	Karnali	Githarpu	Nanikot
43	Kalikot	Simkhet	Tila	Jubitha	Chilkhaya
44	Rukum	Sauri Khola	Sani Bheri	Pokhara	Kandha
45	Rukum	Matthilo Pyuri Dovan	Sani Bheri	Jang	Rangsi
46	Rukum	Gitthakot	Sani Bheri	Purtimkandha	Chaukhabada
47	Rolpa	Chuwawang Khola	Chuwawang Khola	Rangkot	Pachawang
48	Rolpa	Lungri Khola	Lungri Khola	Khungri 3	Sari 9, Pyuthan
49	Salyan	Swamibas	Babaie	Kaprichaur	Kaprichaur
50	Salyan	Kusumtara	Babaie	Kaprichaur 5	Kaprichaur 6
51	Salyan	Damduwali	Sarada	Kalimati Kalche	Kalimati Kalche
52	Surkhet	Chiple (Thuljatri)	Bheri	Lekhfarsa 5	Bheriganga N.P
53	Surkhet	Benghat	Karnali	Betan 1	Batala Achham
54	Surkhet	Maurighat	Karnali	Taranga 4, Kuta	Kailali 2
55	Jajarkot	Pipe bridge	Bheri River	Bheri Malika 1, Jajarkot	Purtimkanda 7 Rukum
56	Jajarkot	Dhallabheri	Bheri River	Bheri Malika 1, Jajarkot	Bijeshwori Rukum
57	Dailekh	Syala	Chamghat	Raniban 9	Kalekanda Achham
58	Doti	Samuhagad	Seti	D.C. N.P 7	D.C. N.P 9
59	Doti	Beni	Karnali	Kanachaur 9	Talagaun, Surkhet
60	Doti	Talkot	Seti	Tikattar 9	Sokot Achham
61	Doti	Bafisain	Seti	Kudegaun	Girichauka, Doti
62	Doti	Girichauka	Seti	Tungda, Baitadi	
63	Achham	Malumela Tungacha	Karnali	Malubela	Tungachalna Devasthan
64	Bajura	Dugalaina	Karnali	Wai 1,2,3, Jera	Badhu
65	Bajhang	Talilgadi Gaun	Bhyagutekhola	Matela	Byasi 1
66	Bajhang	Sedi Khola	Kalandra	Baj	Khiratadi 9
67	Bajhang	Rumlo	Seti	Dhamena 2	Melabisauni 3
68	Bajhang	Gadkhet	Goielagada	Ja.Na.Pa. 10,Bidarradi	Ja.Na.Pa. 10,Bidarradi

SN	District	Location of Tuin	Name of bridge	Right bank of VDC	Left bank of VDC
69	Bajhang	Igulbare	Igulbarkhola	Saipal	
70	Darchula	Kalagad	Mahakali	Huti	Bharat
71	Darchula	Badugaun	Mahakali	Huti	Bharat
72	Darchula	Basedi	Mahakali	Dhaulakot	Bharat
73	Darchula	Tikram	Mahakali	Dhaulakot	Bharat
74	Darchula	Barti	Mahakali	Sunsera	Bharat
75	Darchula	Mal	Mahakali	Rapla	Bharat
76	Darchula	Baku	Mahakali	Uku	Bharat
77	Darchula	Lali	Mahakali	Lali	Bharat
78	Baitadi	Pancheshwor Ghat	Mahakali	Bharat's Chrampawat	Pancheshwor 6
79	Dadeldhura	Kainpani	Rangun khola	Parsuram N.P	Parsuram N.P
80	Kanchanpur	Pathariya Bridge	Jogbuda	Daiji 6	Daiji 7

Annex-XI

List of Tuins to be replaced by Trail Bridges Implemented by SBD/DoLIDAR

Acronyms

ADB	Asian Development Bank
APB	Annual Program and Budget
BCI	Bridge Condition Investigation
DAG	Disadvantaged Groups
DBR	District Bridge Record
DDC	District Development Committee
DFID	Department for International Development/ UK Aid
DMBT	Demonstration Model Bridge Training
DoLIDAR	Department of Local Infrastructure Development and Agricultural Roads
DoLIDAR/LBS	DoLIDAR/Local Bridge Section
DPS	Development Partners
DRILP-AF	Decentralized Rural Infrastructure and Livelihood Project- Additional Financing
DTO	District Technical Office
EI	Educational Institute
FY	Fiscal Year
GoN	Government of Nepal
HELVETAS	HELVETAS Swiss Intercooperation
JFA	Joint Financing Arrangement
KAAA-BGN	Kadoorie Agricultural Aid Association – British Gurkha Nepal
LBS	Local Bridge Section
LBD	Local Bridge Directorate
LBU	Local Bridge Unit (in DTOs)
LIDP	Local Infrastructure Development Policy
LSGA	Local Self Governance Act
LSTB	Long Span Trail Bridge (LSTB Bridge)
MM	Major Maintenance
MoFALD	Ministry of Federal Affairs and Local Development
NGO	Non-Governmental Organization
NTBR	Nepal Trail Bridge Record
N-Type	Suspension Type Bridge
NVC	National Vigilance Centre
OAG	Office of the Auditors General
PAF	Poverty Alleviation Fund
PBBA	Post Bridge Building Assessment
PMIS	Programme Monitoring Information System
RADC	Remote Area Development Committee
RAIDP	Rural Access Improvement and Decentralization Project
RM	Routine Maintenance
R&D	Research and Development
RRRSDP	Rural Reconstruction and Rehabilitation Sector Development Program
RTAP	Regional Technical Assistance Providers
SBD	Suspension Bridge Division
SDC	Swiss Agency for Development and Cooperation
SSTB	Short Span Trail Bridge (SST Bridge)
TA	Technical Assistance
TB SWAp	Trail Bridge Sector-Wide Approach
TBS	Trail Bridge Strategy
TBSCC	Trail Bridge SWAp Coordination Committee
TBSIS	Trail Bridge Strategy Information System
TBSSP	Trail Bridge Sub-Sector project
TBSU	Trail Bridge Support Unit
UC	Users' Committee
VDC	Village Development Committee
WB	World Bank
YPO	Yearly Plan of Operations