



PRESIDENT CHURE-TERAI MADHESH CONSERVATION DEVELOPMENT BOARD
PROGRAM IMPLEMENTATION UNIT
SALAKPUR, MORANG



ACTIVITY PROFILE

2076/077

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OUTSIDE RIVER SYSTEM

1.	Name of Activity: Gabion Box Breast wall, revetment, Lanching And Checkdam					
2.	Name of Program: Land Slide Control (Model Site Development)					
3.	Location: Saptakoshi Na.Pa.	Ward: 1	Place: Satrapatra Khola	F/Y: 2076/77		
4.	Name of River System :					
5.	GPS Coordinate: E 86 ⁰ 54'57.44'' N 26 ⁰ 44'29.05''					
6.	Cost:- a) Estimated:					
Office: 2884615		User: 321919		Others:		Total: 3326919(Including Contingency)
b) Actual Expenditure:						
Office: 2989599.6		User: 321919		Others:		Total: 3311518.6
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land and Forest Area To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall,Revetment and Checkdam were constructed on the side river. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household and forest. In total 1000 house holds are benefitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 270	Dalit: 54	Janjati: 114	Madhesi:	Others: 102
13.	Employment Generated:	450 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region. 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Satrapatra Khola PairoNiyrantran U.G. Chair Person: Bikash Ghimire Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1	Name of Program: Kurra and Baunna River Control				
2	Name of Activity: Toe wall and Spurs with Launching (Gabion Work) and Bamboo Plantation				
3	Location: Surunga Municipality	Ward: 02	Place: Baunna, Gunja Tole	F/Y: 2076/077	
4	Name of River System: N/A				
5	GPS Coordinate: X: 26.779018		Y: 86.534268		
6	Cost:- a) Estimated:				
Office:	2000000	User: 263414.21	Others:	Total: 2263414.21	
b) Actual Expenditure:					
Office:	1908996	User: 260414.21	Others:	Total: 2169410.21	
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring and protect the structure. • Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 33	Dalit: 7	Janjati: 15	Madhesi: 0 Other: 11
13	Employment Generated:	510 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Baunna Khola Nadi Niyran UC		
		Chair Person:	Tilak Bahadur Khapangi Magar		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Kurra and Baunna River Control				
2	Name of Activity: Toe wall and Spurs with Launching (Gabion Work) and Bamboo Plantation				
3	Location: Surunga Municipality	Ward: 02	Place: Kurrah, Raksha Pandey Tole	F/Y: 2076/077	
4	Name of River System: N/A				
5	GPS Coordinate: X: 26.775538		Y: 86.553647		
6	Cost:- a) Estimated:				
Office:	2000000	User: 263414.21	Others:	Total: 2263414.21	
b) Actual Expenditure:					
Office:	1899744	User: 233877.79	Others:	Total: 2133621.79	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 33	Dalit: 7	Janjati: 15	Madhesi: 0 Other: 11
13	Employment Generated:	510 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Kurrah Khola Nadi Niyantaran Samiti		
		Chair Person:	Fode Bahadur Thapa		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: Ratuwa River Control					
3.	Location: Damak Municipality	Ward: 02	Place: East of Falgunanda Bus Park	F/Y: 2076/77		
4.	Name of River System: Ratuwa River System					
5.	GPS Coordinate: X: 26.69285 Y: 87.70785					
6.	Cost:- a) Estimated:					
Office: 8030000		User:		Others:	Total: 8030000	
b) Actual Expenditure:						
Office: 2972079.58		User:		Others:	Total: 2972079.58	
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent infrastructures and agricultural land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. 				
9.	Implementation process:	Procurement process. E-bidding was carried out and the bidder with lowest bid amount was selected.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. Minimized the flood disaster risk. 				
12.	Benefited HH	Total: 3000	Dalit:	Janjati:	Madhesi:	Others:
13.	Employment Generated:	1540 md				
14.	Problem faced:	<ul style="list-style-type: none"> Covid 19 Lockdown and delay in procurement process caused problem in timely completion. 				
15.	Maintenance / Sustainability:	No maintenance fund is allocated there but will do when required. Lower area also needs protection.				
16.	Lesson learned:	The implementation process must be identified early. Procurement related trainings and skills must be needed to all staffs.				
17.	Other:	User Group Name: Shanti Dev Nirmaan sewa Pvt. Ltd., Simikot, Humla Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Plantation and Fencing					
2.	Name of Program: Hot-spot Fencing And Plantation.					
3.	Location: Letang Na.Pa.	Ward: 1	Place: Mahabharat CFUG	F/Y: 2076/77		
4.	Name of River System :					
5.	GPS Coordinate: E 87 ⁰ 30'39.66'' N 26 ⁰ 46'22.29''					
6.	Cost:- a) Estimated:					
Office: 672431		User: 439200		Others:		Total: 1111632 (Including Contingency)
b) Actual Expenditure:						
Office: 654160		User: 439200		Others:		Total: 1093360
7.	Objectives:	<ul style="list-style-type: none"> To recover the degraded forest Land. To conserve the biodiversity in the forest. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Barbed wire fencing and Plantation. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the Posts, barbed wire and completed the plantation work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Control the Free Grazing due to fencing. . Conservation of Bio diversity in side the CFUG 				
12.	Benefited HH	Total:	Dalit:	Janjati:	Madhesi:	Others:
13.	Employment Generated:	550 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of Materials and Skill worker work became difficult. 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Mahabharat CFUG Chair Person: Yagya Kumar Limbu Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Plantation and Fencing					
2.	Name of Program: Hot-spot Fencing And Plantation.					
3.	Location: Miklajung Ga.Pa.	Ward: 2	Place: Chulachuli CFUG	F/Y: 2076/77		
4.	Name of River System :					
5.	GPS Coordinate: E 87 ⁰ 38'58.80'' N 26 ⁰ 45'55.72''					
6.	Cost:- a) Estimated:					
Office: 2013469		User: 139336		Others:		Total: 2152805 (Including Contingency)
b) Actual Expenditure:						
Office: 2011060		User: 139336		Others:		Total: 2150396
7.	Objectives:	<ul style="list-style-type: none"> To recover the degraded forest Land. To conserve the biodiversity in the forest. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Barbed wire fencing and Plantation. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the Posts, barbed wire and completed the plantation work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Control the Free Grazing due to fencing. . Conservation of Bio diversity in side the CFUG 				
12.	Benefited HH	Total:	Dalit:	Janjati:	Madhesi:	Others:
13.	Employment Generated:	550 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of Materials and Skill worker work became difficult. 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Chulachuli CFUG Chair Person: Vanu Pokhrel Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: PCC Work, Stone Masonry Wall					
2.	Name of Program: Ground Water Recharge/ Conservation Pond Construction					
3.	Location: Itahari Sub-Metropolitan City	Ward: 05	Place: Kabyabatika, Pachrukhi			F/Y: 2076/77
4.	Name of River System : NA					
5.	GPS Coordinate: E 87 ⁰ 16'59.04'' N 26 ⁰ 49'54.04''					
6.	Cost:- a) Estimated:					
Office: 2000000		User: 288435.30		Others:		Total: 2288435.30(Including Contingency)
b) Actual Expenditure:						
Office: 1963480		User: 288435.30		Others:		Total: 2251915.30
7.	Objectives:	<ul style="list-style-type: none"> To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. To improve irrigation facility in dry season. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Stone masonry wall was built around the pond. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the required materials, equipment and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Existing pond was upgraded. Water was stored in the pond and moisture was maintained around the area. 				
12.	Benefited HH	Total: 310	Dalit: 10	Janjati: 200	Madhesi:	Others: 100
13.	Employment Generated:	510 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of Materials and Skill worker work became difficult. 				
15.	Maintenance / Sustainability:	No maintenance fund is there but will carry out the repairment and maintenance work when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Jal Punarbharan tatha Sanrakshyan Pokhari Nirmaan UC Chairperson : Falgu Chaudhary Site Incharge: Anil Chaudhary Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Box Breast wall , revetment and Lunching					
2.	Name of Program: Degraded Land Recover (Sardu Khola)					
3.	Location: Barahakshetra Na.Pa.	Ward: 5	Place: Sardukhola	F/Y: 2076/77		
4.	Name of River System :					
5.	GPS Coordinate: E 87 ⁰ 16'13.37'' N 26 ⁰ 41'37.96''					
6.	Cost:- a) Estimated:					
Office: 2400000		User: 348638		Others:		Total: 2848638(Including Contingency)
b) Actual Expenditure:						
Office: 2293468		User: 333162.54		Others:		Total: 2626630.54
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land and Forest Area To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Bamboo plantation was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household and forest. In total 1200 house holds are benefitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 1901	Dalit: 51	Janjati: 350	Madhesi:	Others: 1500
13.	Employment Generated:	450 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Sardu khola Kshatigrasta bhumi Punaruthan U.G. Chair Person: padam Bahadur shrestha Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Earthen embankment construction				
2.	Name of Program: Eroded Land Rehabilitation Program (Kamal Khola Niyentran)				
3.	Location: Chulachuli	Ward: 1	Place: Kamal Khola	F/Y: 2076/77	
4.	Name of River System:				
5.	GPS Coordinate: E 87.472312		N 26.410923		
6.	Cost:- a) Estimated				
Office: 2500758 .00 (With 4% contingency)		User: 193923.00		Others: 00.00	Total: 2694681.00
b) Actual Expenditure:					
Office: 218000.00		User: 16790.00		Others: 00.00	Total: 244425.00
7.	Objectives:	River bank stabilization and conservation of settlement.			
8.	Conservation Measure / Technique applied:	Earthen embankment was constructed on the western side of river. Rest of activities was not implemented by the committee due to lack of labors and construction materials.			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	Protection of river bank and the village side adjoining the river bank.			
12.	Benefited HH	Total: 280	Dalit: 15	Janjati: 200	Madhesi: 00 Other: 65
13.	Employment Generated:	272 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project.			
16.	Lesson learned:	User group approach success only when the problems and programs outcomes directly benefits the user.			
17.	Other:	User Group Name : Kamal Niyentran Upavokta Sammitee Chair Person: Netra Lawati Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



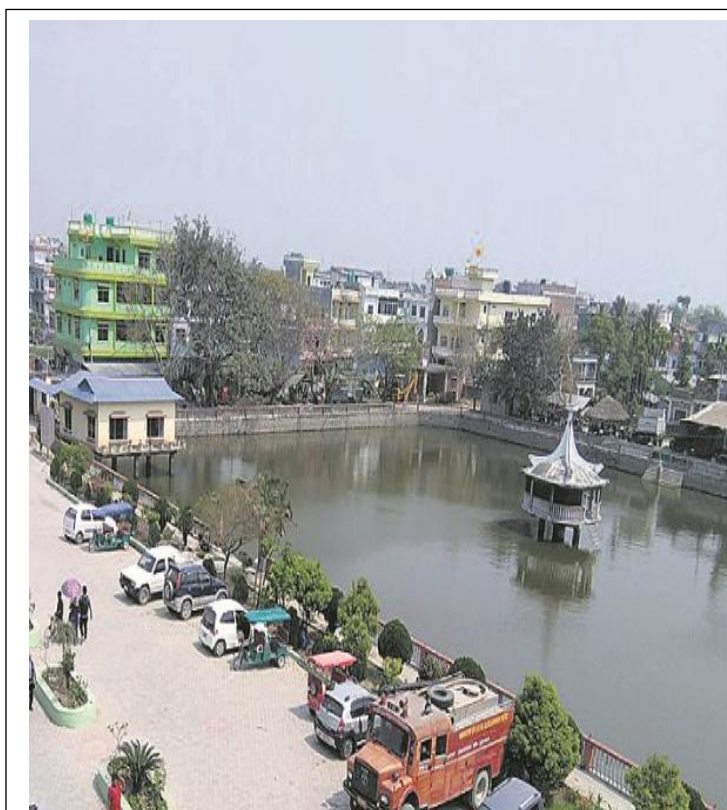
1.	Name of Activity: Park conservation and renovation				
2.	Name of Program: Bhaludhunga Tourism Area Improvement and Promotion				
3.	Location: Illam Municipality	Ward: 6	Place: Gadi Thumka	F/Y: 2076/77	
4.	Name of River System: Outside River System				
5.	GPS Coordinate: E 87 ⁰ 55'18.21'' N 26 ⁰ 55'30.76''				
6.	Cost:- a) Estimated				
Office: 1500000.00 (With 4% contingency)		User: 175027.00		Others: 00.00	Total: 1675027.00
b) Actual Expenditure:					
Office: 14380000.00		User: 175027.00		Others: 00.0	Total: 1654441.00
7.	Objectives:	To protect, maintain and renovate the park To protect and preserve the aesthetic appearance of the park			
8.	Conservation Measure / Technique applied:	Boundry fencing by mesh wire and construction of foot trail			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased required construction materials and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	The park has been repaired, hence expected that the eco-tourism will be increase in the future.			
12.	Benefited HH	Total: 350	Dalit: 50	Janjati: 100	Madhesi: 00 Other: 200
13.	Employment Generated:	654 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:				
17.	Other:	User Group Name : Kamal Niyentran Upavokta Sammitee Chair Person: Hari Prasad Gurung Site Incharge: Youba Raj Pokharel Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity : Promotion and Development of Ecotourism					
2.	Name of Program : Promotion and Development of Ecotourism in Hangsham Pokhari					
3.	Location : Trivenibasti	Ward: Mai Municipality-7	Place: Ilam	F/Y: 2076/077		
4.	GPS Coordinate : 23.76330, 87.81728					
5.	Cost:- a) Estimated:					
Office: Rs. 15,00,000.00		User: 2,24,891.74		Others:		Total: 17,24,891.74
b) Actual Expenditure:						
Office: Rs. 1270198		User: 190376.47		Others:		Total: 1460574.47
7.	Objectives:	<ul style="list-style-type: none"> • To Prevent damage to site • To protect and preserve the aesthetic appearance of the site • Providing functional support 				
8.	Conservation Measure / Technique applied:	For the preservation of aesthetic appearance of the site, a compound wall along with an entrance gate was proposed from the management committee. Considering the need of the users group, compound wall was designed placing the reinforcement bars horizontally and vertically in the wall in a grid pattern to improve the performance of the wall during its life span. Additionally, above this masonry wall grills were fixed as per decoration and security requirement.				
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementation arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.				
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.				
11.	Effect/impact:	Construction of compound wall has prevented trespasser and animals causing problem to the site.				
12.	Benefited HH	Total: 236	Dalit: 12	Janjati: 205	Madhesi:	Other: 46
13.	Employment Generated:	600 Mds				
14.	Problem faced:	Despite many public is still relatively unaware of this site, flow of trespasser was observed high and also unnecessary entrance of animals caused heavy grazing of the site.				
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	A multiple co-ordination mechanism involving the central government, local governments, social organizations and the private sector will be helpful for the conservation of environment in sensitive areas.				
17.	Other:	User Group Name: Hangsam Thebayuma Pa:Ma Warak Sanrakshan Samiti Chair Person: Mr. Deu Bahadur Limbu Site Incharge: Nikesh Kathayat Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: PCC Work, Interlock Cement block laying					
2.	Name of Program: Eco-tourism Promotion					
3.	Location: Itahari Sub-Metropolitan City	Ward: 01	Place: Sub-Metropolitan City compound	F/Y: 2076/77		
4.	Name of River System : NA					
5.	GPS Coordinate: E87 ⁰ 16'36.50'' N 26 ⁰ 39'46.11''					
6.	Cost:- a) Estimated:					
Office: 1500000		User: 0		Others:		Total: 1500000(Including Contingency)
b) Actual Expenditure:						
Office: 1475108		User: 0		Others:		Total: 1475108
7.	Objectives:	<ul style="list-style-type: none"> To upgrade the existing Itahari Pokhari. To beautify the Sub-Metropolitan City compound and provide drinking water to birds. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Stone Masonry wall was built around the pokhari compound. Interlock Cement block was layed on the bed of pond. 				
9.	Implementation process:	Carried out through procurement process as no user group was formed.				
10.	Gender/social consideration:					
11.	Effect/impact:	<ul style="list-style-type: none"> Existing pond was upgraded. Water was stored in the pond. 				
12.	Benefited HH	Total: 33794	Dalit:	Janjati:	Madhesi:	Others:
13.	Employment Generated:	400 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of Materials and Skill worker work became difficult. 				
15.	Maintenance / Sustainability:	No maintenance fund is there but will carry out the repairment and maintenance work when required.				
16.	Lesson learned:	Quality was maintained as the work was carried out by construction company which was lacked when done by local User committee.				
17.	Other:	User Group Name: Tabij Nirmaan Sewa Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Iron Post Fencing Outside the Pond					
2.	Name of Program: Eco-tourism Promotion					
3.	Location: Urlabari Na.Pa.	Ward: 2	Place: Beteni CFUG, Dumre Pokhari	F/Y: 2076/77		
4.	Name of River System :					
5.	GPS Coordinate: E 87 ⁰ 36'32.31'' N 26 ⁰ 44'55.03''					
6.	Cost:- a) Estimated:					
Office: 1500000		User: 425586.56		Others:		Total: 1925586.56 (Including Contingency)
b) Actual Expenditure:						
Office: 1480320		User: 425586.56		Others:		Total: 1905906.56
7.	Objectives:	<ul style="list-style-type: none"> To protect the Water Resource inside The Forest Area. To conserve and protect the Biodiversity of CFUG. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Iron Post Fencing outside the pond With Stone Masonry and PCC. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the Iron Posts, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Beatification of CFUG Recreation area. Conservation of water resource and Bio diversity inside the CFUG 				
12.	Benefited HH	Total: 1475	Dalit: 210	Janjati: 325	Madhesi:	Others: 940
13.	Employment Generated:	450 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of Materials and Skill worker work became difficult. 				
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Beteni CFUG Chair Person: Bhim Rai Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Picnic Shade House, Water boring, Concrete RCC Bench					
2.	Name of Program: Eco-tourism Promotion					
3.	Location: Surunga Municipality	Ward: 02	Place: Bhediya CFUG, Bhediya Park	F/Y: 2076/77		
4.	Name of River System : NA					
5.	GPS Coordinate: E 86 ⁰ 32'29.76''		N 26 ⁰ 45'32.46''			
6.	Cost:- a) Estimated:					
Office: 1500000		User: 0		Others:		Total: 1500000(Including Contingency)
b) Actual Expenditure:						
Office: 1418575.24		User: 0		Others:		Total: 1418575.24
7.	Objectives:	<ul style="list-style-type: none"> To upgrade the existing Bhediya Park. To promote ecotourism and increase income of Community Forest. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Shade house was constructed for carrying out picnic and related programs. Water boring was done to solve the problem of water. 				
9.	Implementation process:	Carried out through procurement process as no user group was formed.				
10.	Gender/social consideration:	CFUG is formed as per gender related norms and the benefit sharing will be equal to both gender.				
11.	Effect/impact:	<ul style="list-style-type: none"> Park has been upgraded for picnic propose too and it will help in income generation. Problem of water scarcity was solved. 				
12.	Benefited HH	Total:	Dalit:	Janjati:	Madhesi:	Others:
13.	Employment Generated:	400 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of Materials and Skill worker work became difficult. 				
15.	Maintenance / Sustainability:	No maintenance fund is there but will carry out the repairment and maintenance work when required.				
16.	Lesson learned:	Quality and time was maintained as the work was carried out by construction company which was lacked when done by local User committee.				
17.	Other:	User Group Name: Jaya Krishna Construction Company Ltd., Devipur-3, Siraha Site Incharge: Anil Kumar Chaudhary Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Ecotourism Promotion and Water Recharge					
2.	Name of Program: Ecotourism Promotion					
3.	Location: Urlabari	Ward: 3	Place: Urlabari	F/Y: 2076/77		
4.	Name of River System: NA					
5.	GPS Coordinate: E 87.600468 N 26.661510					
6.	Cost:- a)Estimated:					
Office: 15,00,000 (Including Contingency)		User: 106226		Others:		Total: 166226
b) Actual Expenditure:						
Office: 1400000		User: 106226		Others:		Total: 166226
7.	Objectives:	<ul style="list-style-type: none"> • Ground water recharge • And ecotourism promotion 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Recharge canal was constructed to hold water as well as to percolate it down into the ground water system. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the materials completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 430	Dalit: 30	Janjati:100	Madhesi:	Other:300
13.	Employment Generated:	75				
14.	Problem faced:	Delay in getting the material on time and rainy season cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Madan Bhandari Smitri Pratisthan Nepal,U.G. Chair Person: Megh Raj Sipali Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Recharge Pond Maintenance and Enhancement					
2.	Name of Program: Ground Water Recharge and Eco-Tourism Development (Babatal , Siraha)					
3.	Location: Karjanha Municipality	Ward: 2	Place: Babatal, Bandipur, Siraha			F/Y: 2076/77
4.	Name of River System: Outside River System					
5.	GPS Coordinate: E 86+ ⁰ 09' 52"E N 26+ ⁰ 53' 49"E					
6.	Cost:- a) Estimated					
Office: 3000000.00 (With 4% contingency)		User: 383630.00		Others: 00.00		Total: 3383630.00
b) Actual Expenditure:						
Office:2801429.00		User: 381810.00		Others: 00.0		Total: 3265740.00
7.	Objectives:		To protect, maintain and renovate the recharge pond			
8.	Conservation Measure / Technique applied:		Excavation, PCC and RCC work for foundation and boundry wall construction			
9.	Implementation process:		User group approach. According to the agreement, the concerned user group purchased required construction materials and completed the work by using local manpower available.			
10.	Gender/social consideration:		From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:		The park has been repaired, and enlarged, hence expected that the eco-tourism will be increase in the future.			
12.	Benefited HH		Total: 450	Dalit: 50	Janjati: 85	Madhesi: 40 Other: 275
13.	Employment Generated:		1127 Mds			
14.	Problem faced:		Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:		Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do by locals when required.			
16.	Lesson learned:					
17.	Other:		User Group Name : Babatal Sudhridikaran NirmanUpavokta Sammittee Chair Person: Manoj Kumar Magar Site Incharge: Anil Kumar Chaudhary Unit Officer: Bhim Bahadur Kalikote			



KHANDO RIVER SYSTEM

1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: SambhuNath Municipality	Ward: 02	Place: Kanakpatti	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.65708		Y: 86.70246		
6	Cost:- a) Estimated:				
Office:	2000000	User: 153540.31	Others:	Total: 2153540.31	
b) Actual Expenditure:					
Office:	1973760	User: 153540.31	Others:	Total: 2127300.31	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide and protect properties. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 50	Dalit: 10	Janjati: 25	Madhesi: 0 Other: 15
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Galchhi Pahiro tatha Khahare Rokthaam Nirmaan UC		
		Chair Person:	Habibul Husen		
		Site Incharge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Agnisaaer K.S. Municipality	Ward: 04	Place: Belha	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.64564		Y: 86.77858		
6	Cost:- a) Estimated:				
Office:	2000000	User: 283145.73	Others:	Total: 2283145.73	
b) Actual Expenditure:					
Office:	1973760	User: 283145.73	Others:	Total: 2256905.73	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide and its debris flow on the river. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 40	Dalit: 6	Janjati: 6	Madhesi: 0 Other: 28
13	Employment Generated:	485 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Budget was very low as compared to severity of landslide. More budget is needed to be allocated and other supporting structures are need to be made to control landslide and make existing structure sustainable.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Amsot KholaNiyrantran Jal UC		
		Chair Person:	UpendraYadav		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Agnisaaer K.S. Municipality	Ward: 02	Place: Chaufaal	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63623		Y: 86.75873		
6	Cost:- a) Estimated:				
Office:	2000000	User: 283145.73	Others:	Total: 2283145.73	
b) Actual Expenditure:					
Office:	1105835.02	User: 163078.98	Others:	Total: 1268914.0	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and structures are saved.			
12	Benefited HH	Total: 74	Dalit: 24	Janjati: 44	Madhesi: 0 Other: 6
13	Employment Generated:	285 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Nadi Galchhi Samrakshyan UC		
		Chair Person:	Roshand Deep Kumar Chaudhary		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Agnisaaer K.S. Municipality	Ward: 02	Place: Chaufaal	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63627		Y: 86.75772		
6	Cost:- a) Estimated:				
Office:	2000000	User: 283145.73	Others:	Total: 2283145.73	
b) Actual Expenditure:					
Office:	1973760	User: 283145.73	Others:	Total: 2256905.73	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on base of landslide and other small gullies. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and debris flow has been reduced.			
12	Benefited HH	Total: 26	Dalit: 8	Janjati: 15	Madhesi: 0 Other: 3
13	Employment Generated:	420 Md.			
14	Problem faced:	Covid 19 and lockdown caused delay in timely payment of the work.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Banra Nadi Galchhi UC		
		Chair Person:	Tara Kant Chaudhary		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Agnisaaer K.S. Municipality	Ward: 02	Place: Chaufaal	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63920		Y: 86.75826		
6	Cost:- a) Estimated:				
Office:	200000	User: 240264.36	Others:	Total: 2240264.36	
b) Actual Expenditure:					
Office:	1973760	User: 240264.36	Others:	Total: 2214024.36	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on base of landslide and other small gullies. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, bamboo and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and become stable compared to previous years.			
12	Benefited HH	Total: 26	Dalit: 9	Janjati: 15	Madhesi: 0 Other: 2
13	Employment Generated:	420 Md.			
14	Problem faced:	Covid 19 and lockdown caused delay in timely payment of the work.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Bihaai Nadi Galchhi Sanrakshyan UC		
		Chair Person:	Hira Nanda Prasad Singh		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: Agnisaaer K.S. Municipality	Ward: 02	Place: Chaufaal	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.64564		Y: 86.77858		
6	Cost:- a) Estimated:				
Office:	2000000	User:	283145.73	Others:	Total: 2283145.73
b) Actual Expenditure:					
Office:	1518026	User:	223865.92	Others:	Total: 1741891.92
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on the gully. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12	Benefited HH	Total: 57	Dalit: 2	Janjati: 52	Madhesi: 0 Other: 3
13	Employment Generated:	340 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Behaai Galchhi Pahiro Niyantaran UC		
		Chair Person:	KhadgaBahadurTamang		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: Rupani R. Municipality	Ward: 06	Place: Nayabasti, damaraKhola	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.64052		Y: 86.73755		
6	Cost:- a) Estimated:				
Office:	2000000	User: 215598.03	Others:	Total:2215598.03	
b) Actual Expenditure:					
Office:	1973760	User: 215598.03	Others:	Total: 2189935.03	
7	Objectives:	<ul style="list-style-type: none"> • To improve gully catchments to reduce and regulate the run off rates. • To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion Check dam and wall is constructed on the gully. • Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 75	Dalit: 25	Janjati: 40	Madhesi: 0 Other: 10
13	Employment Generated:	320 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Damara Pahiro Sanrakshyan UC		
		Chair Person:	Deek Bahadur Moktan		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthen dam				
3	Location: Agnisaaer K.S.Municipality	Ward: 04	Place: Belha, Saptari	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63890		Y: 86.78132		
6	Cost:- a) Estimated:				
Office:	6000000	User: 982776.87	Others:	Total: 6982776.87	
b) Actual Expenditure:					
Office:	5749604	User: 982776.87	Others:	Total: 6732380.87	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion revetment and earthen dam are provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 240	Dalit: 160	Janjati: 20	Madhesi: 0 Other: 60
13	Employment Generated:	1550 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Amsot Nadi Niyantran Upabhokta Sanstha		
		Chair Person:	Bechan Chaudhari		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthen dam				
3	Location: Rupani R. Municipality	Ward: 06	Place: BirendraBajar, DudhailaTole	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63603		Y: 86.74930		
6	Cost:- a) Estimated:				
Office:	6000000	User: 982776.87	Others:	Total: 6982776.87	
b) Actual Expenditure:					
Office:	5921280	User: 982776.87	Others:	Total: 6904056.87	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion revetment and earthen dam is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 50	Dalit:10	Janjati: 25	Madhesi: 0 Other: 15
13	Employment Generated:	1610 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Dudhela Khola UC		
		Chair Person:	Surya Narayan Mahato		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthen dam				
3	Location: Rupani R. Municipality	Ward: 06	Place: BirendraBajar, DudhailaTole	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63603		Y: 86.74930		
6	Cost:- a) Estimated:				
Office:	6000000	User: 982776.87	Others:	Total: 6982776.87	
b) Actual Expenditure:					
Office:	5921280	User: 982776.87	Others:	Total: 6904056.87	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion revetment and earthen dam is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 50	Dalit:10	Janjati: 25	Madhesi: 0 Other: 15
13	Employment Generated:	1610 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Shree Dudhela Thakur UC		
		Chair Person:	Kumar Man Shrestha		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment, Revetment with Launching (Gabion Work) and Earthen Dam				
3	Location: Sambhunath Municipality	Ward: 02	Place: Kanakpatti	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.64755		Y: 86.70497		
6	Cost:- a) Estimated:				
Office:	6000000	User: 978189.12	Others:	Total: 6978189.12	
b) Actual Expenditure:					
Office:	5916140	User: 978189.12	Others:	Total: 6894329.12	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion revetment and earthen dam is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 145	Dalit: 35	Janjati: 45	Madhesi: 0 Other: 65
13	Employment Generated:	1460 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Khando Khola Nadi Niyantaran UC		
		Chair Person:	Dev Kanta Chaudhari		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation, Stone Masonry wall, RCC Dam Construction				
3	Location: Rupani R. Municipality	Ward: 06	Place: Nayabasti	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63827 Y: 86.74049				
6	Cost:- a) Estimated:				
Office:	1500000	User: 194632.30	Others:	Total: 1694632.30	
b) Actual Expenditure:					
Office:	1480320	User: 194632.30	Others:	Total: 1674952.30	
7	Objectives:	<ul style="list-style-type: none"> • To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. • To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 59	Dalit: 9	Janjati: 30	Madhesi: 0 Other: 20
13	Employment Generated:	320Md.			
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Shree Panchaawati Devi PokhariNirmaan UC		
		Chair Person:	Lal Bahadur Chaudhari		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation, Stone Masonry wall, RCC Dam Construction				
3	Location: AgniSaaer K.S. Municipality	Ward: 2	Place: Sitapur, Chaufaal	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63998		Y: 86.75566		
6	Cost:- a) Estimated:				
Office:	1500000	User:	194632.30	Others:	Total: 1694632.30
b) Actual Expenditure:					
Office:	1480320	User:	194632.30	Others:	Total: 1674952.30
7	Objectives:	<ul style="list-style-type: none"> To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 36	Dalit: 19	Janjati: 16	Madhesi: 0 Other: 1
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Wetlands and conservation ponds not only helps in ground water recharge and maintaining moisture, it also plays a vital role in promoting tourism.			
17	Other:	User Group Name:	Bandeви Pokhari Nirmaan UC		
		Chair Person:	Ganga Prasad Chaudari		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation, Stone Masonry wall, RCC Dam Construction				
3	Location: AgniSaaer K.S. Municipality	Ward: 02	Place: AgniSaaerMandir	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.63362		Y: 86.76629		
6	Cost:- a) Estimated:				
Office:	1500000	User: 194632.30	Others:	Total: 1694632.30	
b) Actual Expenditure:					
Office:	1480320	User: 194632.30	Others:	Total: 1674952.30	
7	Objectives:	<ul style="list-style-type: none"> • To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. • To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 69	Dalit: 3	Janjati: 59	Madhesi: 0 Other: 4
13	Employment Generated:	495 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Agnisaaer Pokhari Nirmaan UC		
		Chair Person:	Bhawani Prasad Chaudhari		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation				
3	Location: Sambhunath Municipality	Ward: 02	Place: Khandokhola, Kanakpatti	F/Y: 2076/077	
4	Name of River System: Khando River System				
5	GPS Coordinate: X: 26.65394		Y: 86.70388		
6	Cost:- a) Estimated:				
Office:	1500000	User: 152030.29	Others:	Total: 1652030.29	
b) Actual Expenditure:					
Office:	1480320	User: 152030.29	Others:	Total: 1632350.29	
7	Objectives:	<ul style="list-style-type: none"> • To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. • To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 280	Dalit: 15	Janjati: 125	Madhesi: 0 Other: 140
13	Employment Generated:	320 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Pokhari Nirmaan UC		
		Chair Person:	Asim Kumar Rai		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



TRIYUGA-2 (KANG, HADIYA, SIWAI) RIVER SYSTEM

1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Triyuga Na.Pa.	Ward: 1	Place: Rupani , Baunna Khola	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 47'40.40'' N 26 ⁰ 45'59.70''					
6.	Cost:- a) Estimated:					
Office: 3133479		User: 327737		Others:		Total: 3586557(Including Contingency)
b) Actual Expenditure:						
Office: 3002788		User: 314067.76		Others:		Total: 3316855.76
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 150 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 225	Dalit:	Janjati: 200	Madhesi:	Others: 25
13.	Employment Generated:	650 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Baunna Khahare Galchi Niyantaran U.G. Chair Person: Ambika Kumari Choudhari Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Box Breast wall and Check Dam					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Triyuga Na.Pa.	Ward: 1	Place: Jogidaha, Dhamiyain Bhawari	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 46'41.96'' N 26 ⁰ 46'0.14''					
6.	Cost:- a) Estimated:					
Office: 712675		User: 113268		Others:		Total: 854451 (Including Contingency)
b) Actual Expenditure:						
Office: 677452		User: 107669.88		Others:		Total: 785121.88
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 120 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 190	Dalit: 15	Janjati: 150	Madhesi:	Others: 25
13.	Employment Generated:	250 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Dhamiyain Bhawari Galchi Niyrantran U.G. Chair Person: Anita Devi Choudhari Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lunching Apron					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Choudandigadhi Na.Pa.	Ward: 9	Place: Aajgara Khola, Ajgara	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 52'46.48'' N 26 ⁰ 48'38.14''					
6.	Cost:- a) Estimated:					
Office: 1923077		User: 290131		Others:		Total: 2290132(Including Contingency)
b) Actual Expenditure:						
Office: 1803112		User: 272032.10		Others:		Total: 2075144.10
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 120 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 40	Dalit: 7	Janjati: 10	Madhesi:	Others: 30
13.	Employment Generated:	350 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Ajgara paio Niyrantran U.G. Chair Person: Krishna Bahadur Karki Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Choudandigadhi Na.Pa.	Ward: 5	Place: Dhamichap, Sundarpur	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 53'36.12'' N 26 ⁰ 46'8.26''					
6.	Cost:- a) Estimated:					
Office: 1923027		User: 104560		Others:		Total: 2104509(Including Contingency)
b) Actual Expenditure:						
Office: 1803112		User: 98039.91		Others:		Total: 1901151.91
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 120 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 36	Dalit:	Janjati: 36	Madhesi:	Others:
13.	Employment Generated:	350 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Dhamichap GherKhola Galchi Niyrantran U.G. Chair Person: Prabhu Choudhary Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Choudandigadhi Na.Pa.	Ward: 5	Place: Gherkhola, Sundarpur	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 53'36.24'' N 26 ⁰ 46'8.27''					
6.	Cost:- a) Estimated:					
Office: 1922205		User: 98991		Others:		Total: 2098085(Including Contingency)
b) Actual Expenditure:						
Office: 1809490.74		User: 93186.36		Others:		Total: 1902677.10
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 120 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 36	Dalit:	Janjati: 36	Madhesi:	Others:
13.	Employment Generated:	350 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: GherKhola Galchi Niyrantran U.G. Chair Person: Bashudev Choudhary Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Choudandigadhi Na.Pa.	Ward: 9	Place: Chedikhola , Ajgara	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 51'22.15'' N 26 ⁰ 45'45.97''					
6.	Cost:- a) Estimated:					
Office: 1923077		User: 172845		Others:		Total: 2268767(Including Contingency)
b) Actual Expenditure:						
Office: 1804140		User: 162155		Others:		Total: 1966295
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Revetment were constructed on the side river. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 120 house holds are benefitted from the programme. Minimized the flood disaster on farm land. 				
12	Benefited HH	Total: 110	Dalit: 12	Janjati: 40	Madhesi:	Others: 58
13	Employment Generated:	450 md				
14	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17	Other:	User Group Name: Chedikhola paio Niyrantran U.G. Chair Person: Nawaraj Budhathoki Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Triyuga Na.Pa.	Ward: 1	Place: Jogidaha, Kang Khola	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 46'38.11'' N 26 ⁰ 57'57.75''					
6.	Cost:- a) Estimated:					
Office: 6490385		User: 803332		Others:		Total: 7553333(Including Contingency)
b) Actual Expenditure:						
Office: 6148365.2		User: 761002.47		Others:		Total: 6909367.67
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 120 households are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 1800	Dalit: 100	Janjati: 1000	Madhesi:	Others: 700
13.	Employment Generated:	950 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Kang Khola Badhi Niyantaran Tatbandh Nirman U.G. Chair Person: Aruna Devi Choudhari Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Choudandigadhi Na.Pa.	Ward: 9	Place: Tharutol, Hadiya Khola	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 49'27.79'' N 26 ⁰ 46'41.18''					
6.	Cost:- a) Estimated:					
Office: 4326923		User: 490010		Others:		Total: 4990010(Including Contingency)
b) Actual Expenditure:						
Office: 3972192		User:		Others:		Total: 449837.86
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 200 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 151	Dalit: 11	Janjati: 115	Madhesi:	Others: 25
13.	Employment Generated:	650 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Tharu tole Hadiya Khola Nadi Niyantran U.G. Chair Person: Raj Kumar Khadka Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



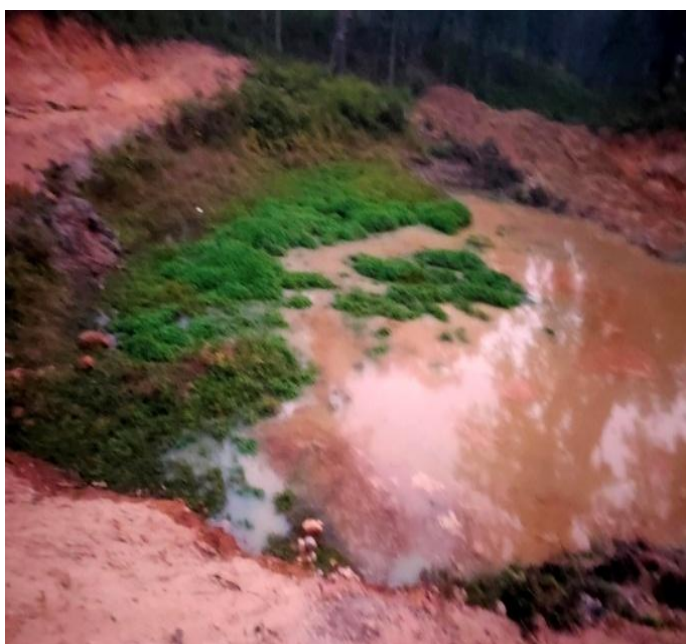
1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Choudandigadhi Na.Pa.	Ward: 9	Place: Musarniya, Hadiya Khola	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 49'20.95'' N 26 ⁰ 45'22.96''					
6.	Cost:- a) Estimated:					
Office: 3605769		User: 413845		Others:	Total: 4163845(Including Contingency)	
b) Actual Expenditure:						
Office: 3149689.2		User: 361499.34		Others:	Total: 3511185.54	
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 150 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 105	Dalit: 5	Janjati: 25	Madhesi: Others: 75	
13.	Employment Generated:	550 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Radhakrishna Bichtole Musaharniya Khola Niyantaran U.G. Chair Person: Raj Kumar Khatri Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lanching Apron				
2.	Name of Program: River Bank Stabilization Program				
3.	Location: Choudandigadhi Na.Pa.	Ward: 5	Place: Khoriya Tole, Siwai Khola	F/Y: 2076/77	
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System				
5.	GPS Coordinate: E 86 ⁰ 52'41.97'' N 26 ⁰ 45'37.93''				
6.	Cost:- a) Estimated:				
Office: 8653846		User: 546150	Others:	Total: 9546151(Including Contingency)	
b) Actual Expenditure:					
Office: 8050268		User: 508050.77	Others:	Total: 8558325.78	
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 			
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Grass turfing was done on the slope of the earthen embankment. 			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.			
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 150 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 			
12.	Benefited HH	Total: 761	Dalit: 101	Janjati: 503	Madhesi: Others: 157
13.	Employment Generated:	1050 md			
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 			
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.			
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17.	Other:	User Group Name: Siwai Khola Bandh Nirman U.G. Chair Person: Dillisher Rai Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote			



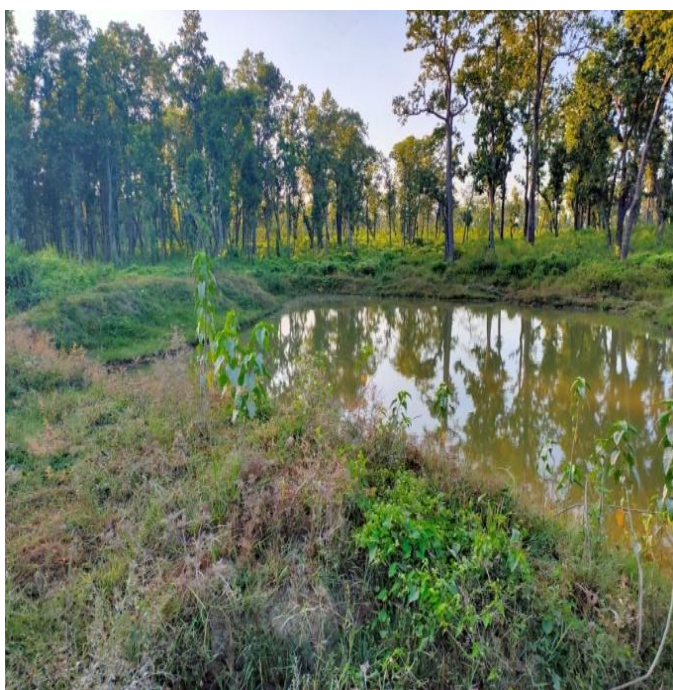
1.	Name of Activity: Earthwork Excavation, Earthem Dam, PCC, RCC , Stone Mesonary Work					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Triyuga Na.Pa.	Ward: 1	Place: Maruwa Kholsi	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 46'59.44'' N 26 ⁰ 45'54.18''					
6.	Cost:- a) Estimated:					
Office: 1442308		User: 119455		Others:		Total: 1619456(Including Contingency)
b) Actual Expenditure:						
Office: 1228452.80		User: 101743		Others:		Total: 1330195.86
7.	Objectives:	<ul style="list-style-type: none"> To minimized the irrigation problem in dry season in farm land. To conserve water Resource. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Earth work (Excavation, Dam Construction) Stone Messonary, PCC & Humepipe for drain. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the stone, Cement, Hume Pipe and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Irrigation problem in Dry season is solved. Water Table of adjacent area Increase. UG get Benefit By Fish farming. 				
12.	Benefited HH	Total: 250	Dalit: 50	Janjati: 160	Madhesi:	Others: 40
13.	Employment Generated:	250 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Maruwa Kholsi Pokhari Nirman U.G. Chair Person: Ramanand Choudhari Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Earthwork Excavation, Earthem Dam, PCC, RCC , Stone Mesonary Work					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Choudandigadhi Na.Pa.	Ward: 9	Place: Aminikharka, Choufal	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 48'57.76'' N 26 ⁰ 45'18.80''					
6.	Cost:- a) Estimated:					
Office: 1538462		User: 149800		Others:		Total: 1749801(Including Contingency)
b) Actual Expenditure:						
Office: 1508076		User: 148000		Others:		Total: 1656076
7.	Objectives:	<ul style="list-style-type: none"> To minimized the irrigation problem in dry season in farm land. To conserve water Resource. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Earth work (Excavation, Dam Construction) Stone Messonary, PCC & Humepipe for drain. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the stone, Cement, Hume Pipe and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Irrigation problem in Dry season is solved. Water Table of adjacent area Increase. UG get Benefit By Fish farming. 				
12.	Benefited HH	Total: 35	Dalit: 3	Janjati: 2	Madhesi:	Others: 30
13.	Employment Generated:	250 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Namuna Choufal Pokhari Nirman U.G. Chair Person: Jagat Bahadur Khadka Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Earthwork Excavation, Earthem Dam, PCC, RCC , Stone Mesonary Work					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Choudandigadhi Na.Pa.	Ward: 9	Place: Fatepur Road , Rakshyadaha	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 50'14.10''		N 26 ⁰ 46'26.32''			
6.	Cost:- a) Estimated:					
Office: 1346153		User: 101691		Others:	Total: 1501690(Including Contingency)	
b) Actual Expenditure:						
Office: 1291069.31		User: 97529.87		Others:	Total: 1388599	
7.	Objectives:	<ul style="list-style-type: none"> To minimized the irrigation problem in dry season in farm land. To conserve water Resource. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Earth work (Excavation, Dam Construction) Stone Messonary, PCC & Humepipe for drain. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the stone, Cement, Hume Pipe and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Irrigation problem in Dry season is solved. Water Table of adjacent area Increase. UG get Benefit By Fish farming. 				
12.	Benefited HH	Total: 41	Dalit: 6	Janjati: 15	Madhesi: Others: 20	
13.	Employment Generated:	280 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Rakshyadaha Pokhari Nirman U.G. Chair Person: Chatra Bahadur Basnet Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Earthwork Excavation, Earthem Dam, PCC, RCC , Stone Mesonary Work					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Choudandigadhi Na.Pa.	Ward: 5	Place: Siwai, Khonihi	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 51'49.20'' N 26 ⁰ 45'20.57''					
6.	Cost:- a) Estimated:					
Office: 625905		User: 55488		Others:		Total: 706429(Including Contingency)
b) Actual Expenditure:						
Office: 583601.76		User: 51737.71		Others:		Total: 635339.47
7.	Objectives:	<ul style="list-style-type: none"> To minimized the irrigation problem in dry season in farm land. To conserve water Resource. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Earth work (Excavation, Dam Construction) Stone Messonary, PCC & Humepipe for drain. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the stone, Cement, Hume Pipe and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Irrigation problem in Dry season is solved. Water Table of adjacent area Increase. UG get Benefit By Fish farming. 				
12.	Benefited HH	Total: 235	Dalit: 80	Janjati: 142	Madhesi:	Others: 13
13.	Employment Generated:	220 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Khunahi Khola Pokhari Nirman U.G. Chair Person: Sarita Rai Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				

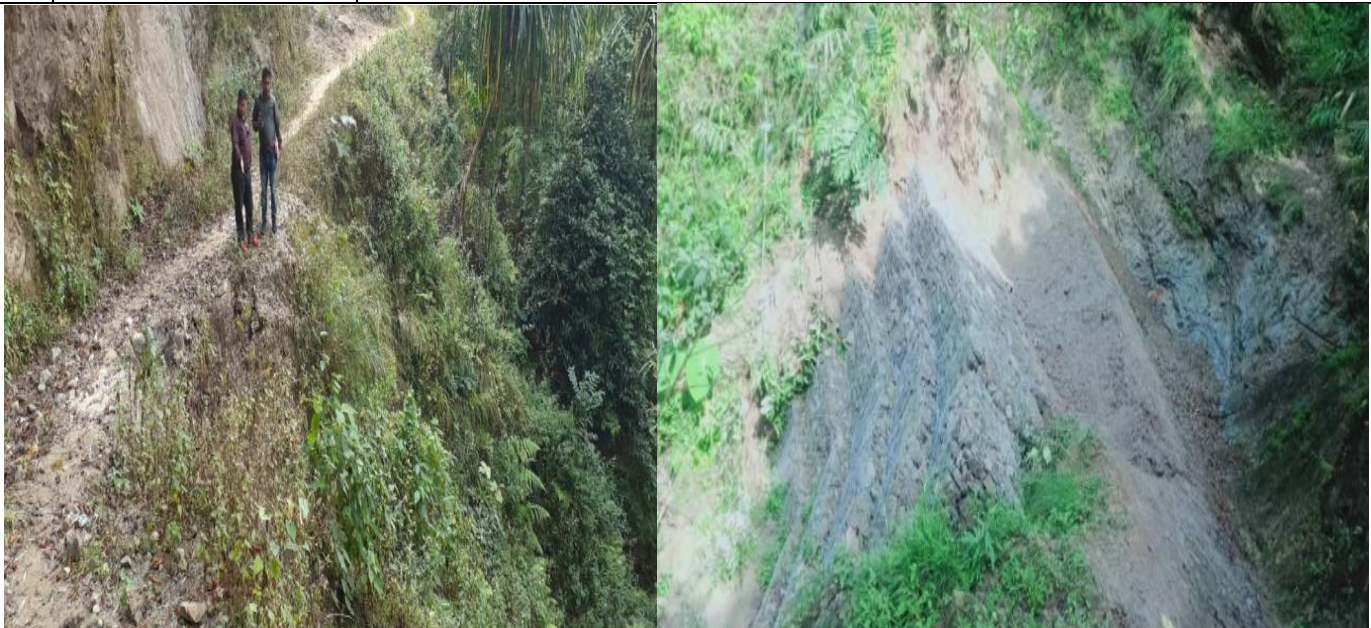


1.	Name of Activity: Earthwork Excavation, Earthem Dam, PCC, RCC , Stone Mesonary Work					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Choudandigadhi Na.Pa.	Ward: 5	Place: Sundarpur, Siwalaya	F/Y: 2076/77		
4.	Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System					
5.	GPS Coordinate: E 86 ⁰ 53'54.24'' N 26 ⁰ 45'25.27''					
6.	Cost:- a) Estimated:					
Office: 2258711		User: 219200		Others:		Total: 22896659(Including Contingency)
b) Actual Expenditure:						
Office: 2321224		User: 219200		Others:		Total: 2540424
7.	Objectives:	<ul style="list-style-type: none"> To minimized the irrigation problem in dry season in farm land. To conserve water Resource. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Earth work (Excavation, Dam Construction) Stone Messonary, PCC & Humepipe for drain. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the stone, Cement, Hume Pipe and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> Irrigation problem in Dry season is solved. Water Table of adjacent area Increase. UG get Benefit By Fish farming. 				
12.	Benefited HH	Total: 238	Dalit: 35	Janjati: 104	Madhesi:	Others: 99
13.	Employment Generated:	320 md				
14.	Problem faced:	<ul style="list-style-type: none"> Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Shivalaya Pokhari Nirman U.G. Chair Person: Govind Bahadur Basnet Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



BAKRAHA RIVER SYSTEM

1.	Name of Activity: Gabion Checkdam, Bioengineering				
2.	Name of Program: Gully and Landslide Control				
3.	Location: Miklajung	Ward: 2	Place: ChuliPokhari, Chaga	F/Y: 2076/77	
4.	Name of River System: Bakraha River System				
5.	GPS Coordinate: E87.643865 N 26.791735				
6.	Cost:- a)Estimated:				
Office: 492404.63 (Including Contingency)		User: 25000	Others:	Total: 517404.63	
b) Actual Expenditure:					
Office: 485216		User: 25000	Others:	Total: 510216	
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 			
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available, with frequent appropriate consultation with PIU, Salakpur			
10.	Gender/social consideration:	From the selection of the activity, decision making to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled. The road on the side of landslide is more protected.			
12.	Benefited HH	Total: 110	Dalit:	Janjati:110	Madhesi: Other:
13.	Employment Generated:	200			
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Correct gully control measures must be determined according to these development stages and all the control measures should be finished before the rainy season			
17.	Other:	User Group Name: Chaga Galchi Pahi Roktham U.G. Chair Person: Jit Bahadur Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Gabion Check dam, Bioengineering					
2.	Name of Program: Gully and Landslide Control					
3.	Location: Miklajung	Ward: 2	Place: Chuli Pokhari	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.671105 N 26.795917					
6.	Cost:- a)Estimated:					
Office: 3030000(Including Contingency)		User: 173032.57		Others:		Total: 3331153.87
b) Actual Expenditure:						
Office: 1,207,900		User: 6880.3		Others:		Total: 1214780
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extend , the gully/ landslide is controlled .				
12.	Benefited HH	Total: 45	Dalit:	Janjati:45	Madhesi:	Other:
13.	Employment Generated:	306				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Betini Galchi Pahiro Roktham U.G. Chair Person: Ram Maya Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Check dam, Bioengineering					
2.	Name of Program: Gully and Landslide Control					
3.	Location: Miklajung	Ward: 2	Place: Sakhare Siran	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.635309 N 26.781526					
6.	Cost:- a)Estimated:					
Office: 2000000(Including Contingency)		User: 99534.01		Others:		Total: 2099534
b) Actual Expenditure:						
Office: 8,72,772		User: 42765		Others:		Total: 915537
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extend , the gully/ landslide is controlled .				
12.	Benefited HH	Total: 330	Dalit: 50	Janjati:250	Madhesi:	Other:30
13.	Employment Generated:	350				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Fedape Galchi Pahiro Roktham U.G. Chair Person: Ram Maya Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Check dam, Bioengineering					
2.	Name of Program: Gully and Landslide Control					
3.	Location: Miklajung	Ward: 2	Place: Nunsari	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.6722917 N 26.772006					
6.	Cost:- a)Estimated:					
Office: 2000000(Including Contingency)		User: 96630.87		Others:		Total: 2096630
b) Actual Expenditure:						
Office: 1663304		User: 96630.87		Others:		Total: 1759934
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extent , the gully/ landslide is controlled .				
12.	Benefited HH	Total: 389	Dalit: 24	Janjati: 255	Madhesi:	Other:110
13.	Employment Generated:	350				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Nunsari Khudi Kuenetar Bhatta Pahiro Galchi Roktham U.G. Chair Person: Jewan Shrestha Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Check dam, Bioengineering					
2.	Name of Program: Gully and Landslide Control					
3.	Location: Miklajung	Ward: 2	Place: Nunsari	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.607291 N 26.771146					
6.	Cost:- a)Estimated:					
Office: 2000000 (Including Contingency)		User: 102043.73		Others:		Total: 2102043
b) Actual Expenditure:						
Office: 18,82,268		User: 102043		Others:		Total: 1984311
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extend , the gully/ landslide is controlled .				
12.	Benefited HH	Total: 107	Dalit: 20	Janjati:66	Madhesi:	Other:21
13.	Employment Generated:	350				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Laikhare Nunsari Kulo Jalchi Pahiro Niyantran U.G. Chair Person: Ram Maya Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Check dam, Bioengineering					
2.	Name of Program: Gully and Landslide Control					
3.	Location: Letang	Ward: 8	Place: Babyani	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.56153 N 26.78873					
6.	Cost:- a)Estimated:					
Office: 2000000 (Including Contingency)		User: 109061.73	Others:	Total: 2109061		
b) Actual Expenditure:						
Office:1918248		User: 109061.73	Others:	Total: 2027309		
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extend , the gully/ landslide is controlled .				
12.	Benefited HH	Total: 86	Dalit:	Janjati:86	Madhesi:	Other:
13.	Employment Generated:	350				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Babyani Pahiro Niyantran U.G. Chair Person: Indra Bahadur Limbu Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Check dam, Bioengineering					
2.	Name of Program: Gully and Landslide Control					
3.	Location: Letang	Ward: 8	Place: Hokse	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.55429 N 26.79991					
6.	Cost:- a)Estimated:					
Office: 2000000 (Including Contingency)		User: 98692.13		Others:		Total: 2098692
b) Actual Expenditure:						
Office: 1892548		User: 98692.13		Others:		Total: 1991240
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Checkdam and wall is constructed. Bamboo plantation was done to control debris flow and check the surface erosion. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extend , the gully/ landslide is controlled .				
12.	Benefited HH	Total: 18	Dalit: 5	Janjati:13	Madhesi:	Other:
13.	Employment Generated:	350				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project. The site being on remote area didn't get access fast.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Hokse Pahiro Niyantran U.G. Chair Person: Bishnu Kumar Limbu Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Checkdam					
2.	Name of Program: Gully and landslide control					
3.	Location: Chulachuli	Ward: 6	Place: Aasetar Pahiro	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.66259		N 26.81555			
6.	Cost:- a) Estimated					
Office: 2000085.00 (With 4% contingency)		User: 255112.00		Others: 00.00		Total: 2255197.00
b) Actual Expenditure:						
Office: 1923000		User: 311476		Others:		Total: 22871662
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.				
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed.				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone then completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.				
12.	Benefited HH	Total: 160	Dalit: 10	Janjati: 90	Madhesi:	Other: 60
13.	Employment Generated:	1191 Mds				
14.	Problem faced:	Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.				
17.	Other:	User Group Name : Aasetar Pahiro Niyentran Upavokta Sammittee Chair Person: Govinda Magar Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Checkdam, Bioengineering				
2.	Name of Program: River Bank Stabilization Program				
3.	Location: Miklajung	Ward: 2	Place: Sakare Khola	F/Y: 2076/77	
4.	Name of River System: Bakraha River System				
5.	GPS Coordinate: E 87.655526 N 26.768065				
6.	Cost:- a) Estimated:				
Office: 60,00,000 (Including Contingency)		User: 565751	Others:	Total: 6565751	
b) Actual Expenditure:					
Office: 50,09,444		User: 565751	Others:	Total: 5575195	
7.	Objectives:	<ul style="list-style-type: none"> • Conservation of river bank and stabilization • To conserve and protect the settlement. 			
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. • Plantation was done on the slope of the earthen embankment. 			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	Protection of river bank and the village side adjoining the river bank.			
12.	Benefited HH	Total: 184	Dalit:10	Janjati:120	Madhesi: Other:54
13.	Employment Generated:	900			
14.	Problem faced:	Availability of materials on time.			
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintainance work as and when required			
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17.	Other:	User Group Name: Sakhare Khola Pashim Nadi tatha Khola Kinara Sthirikaran Byawasthapan U.G. Chair Person: Sher Bahadur Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Gabion Checkdam, Bioengineering					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Miklajung	Ward: 2	Place: Sakare Khola	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.655910 N 26.767518					
6.	Cost:- a)Estimated:					
Office: 60,00,000 (Including Contingency)		User: 565751		Others:		Total: 6565751
b) Actual Expenditure:						
Office: 5123000		User: 565751		Others:		Total: 5688751
7.	Objectives:	<ul style="list-style-type: none"> • Conservation of river bank and stabilization • To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. • Plantation was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	Protection of river bank and the village side by				
12.	Benefited HH	Total: 211	Dalit:16	Janjati:130	Madhesi:	Other:65
13.	Employment Generated:	900				
14.	Problem faced:	Availability of materials on time.				
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintainance work as and when required				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: School Cheu Sakhare Khola Nadi tatha Khola Kinara Stirikaran Byawasthapan U.G. Chair Person: Azam Bahadur Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Checkdam, Bioengineering					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Miklajung	Ward: 2	Place: Sakare Khola	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.637831 N 26.779671					
6.	Cost:- a)Estimated:					
	Office: 30,00,000 (Including Contingency)	User: 323572.92	Others:	Total: 3323572.92		
	b) Actual Expenditure:					
	Office: 23,81,876	User: 32,35,72.92	Others:	Total: 2705448.92		
7.	Objectives:	<ul style="list-style-type: none"> • Conservation of river bank and stabilization • To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. • Plantation was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	Protection of river bank and the village side by				
12.	Benefited HH	Total: 153	Dalit:13	Janjati:105	Madhesi:	Other:35
13.	Employment Generated:	600				
14.	Problem faced:	Availability of materials on time.				
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintainance work as and when required				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Sakhare Khola Purwa Nadi tatha Khola Kinara Sthirikaran Byawasthapan U.G. Chair Person: Deu Prakash Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Pond Construction with Spillway				
2.	Name of Program: Ground Water Recharge and Utilization of Surface water				
3.	Location: Miklajung	Ward: 6	Place: Kalidaha	F/Y: 2076/77	
4.	Name of River System: Bakraha River System				
5.	GPS Coordinate: E 87.6333235 N 26. 747456				
6.	Cost:- a)Estimated:				
Office: 1500000 (Including Contingency)		User: 156295.37	Others:	Total: 1596295.37	
b) Actual Expenditure:					
Office: 140000		User: 156295.37	Others:	Total: 1596295.37	
7.	Objectives:	<ul style="list-style-type: none"> • Ground water recharge 			
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds. 			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.			
12.	Benefited HH	Total: 101	Dalit: 11	Janjati:70	Madhesi: Other:20
13.	Employment Generated:	200			
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17.	Other:	User Group Name: Kalidaha Simsar Sanrakchan Jal Puran Bharan U.G. Chair Person: Chun Kumari Kafle Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Pond Construction with Spillway					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Miklajung	Ward: 6	Place: Betini	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.631799 N 26. 735337					
6.	Cost:- a)Estimated:					
Office: 1760000 (Including Contingency)		User: 196321.21		Others:		Total: 1956321.20
b) Actual Expenditure:						
Office: 15,81,064		User: 196321.21		Others:		Total: 1777385
7.	Objectives:	<ul style="list-style-type: none"> Ground water recharge 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. pond was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 63	Dalit: 7	Janjati:11	Madhesi:	Other:45
13.	Employment Generated:	200				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Betini Simsar Sanrakchan Jal Puran Bharan U.G. Chair Person: Dilli Khadka Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity:					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Miklajung	Ward: 6	Place: Janjati	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.630364 N 26. 750804					
6.	Cost:- a)Estimated:					
Office: 840000 (Including Contingency)		User: 93068.59		Others:		Total: 980391
b) Actual Expenditure:						
Office: 751468		User: 93068.59		Others:		Total: 844536
7.	Objectives:	<ul style="list-style-type: none"> Ground water recharge 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. pond was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 35	Dalit: 5	Janjati:27	Madhesi:	Other:3
13.	Employment Generated:	200				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Janjati Devithan Simsar Sanrakchan Jal Puran Bharan U.G. Chair Person: Gyan Maharjan Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity:					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Miklajung	Ward: 3	Place: Kirateswor	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.624328 N 26. 769580					
6.	Cost:- a)Estimated:					
Office: 150000 (Including Contingency)		User: 75714.04		Others:		Total: 1512230.57
b) Actual Expenditure:						
Office: 1224373.7		User: 75714.04		Others:		Total: 1300087.7
7.	Objectives:	<ul style="list-style-type: none"> Ground water recharge 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. pond was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 572	Dalit: 111	Janjati:251	Madhesi:	Other:210
13.	Employment Generated:	200				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Kiratesowr Hangsam Manghim U.G. Chair Person: Surkra Dawaj Limbu Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity:					
2.	Name of Program: Ground Water Recharge and Utilization of Surface water					
3.	Location: Miklajung	Ward: 2	Place: Sakhare siran	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87.63120 N 26. 78234					
6.	Cost:- a)Estimated:					
Office: 465284.86 (Including Contingency)		User: 23499.24		Others:		Total: 469984.71
b) Actual Expenditure:						
Office: 431567.74		User: 23499.24		Others:		Total: 455066.76
7.	Objectives:	<ul style="list-style-type: none"> Ground water recharge 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. pond was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 164	Dalit: 25	Janjati:135	Madhesi:	Other:4
13.	Employment Generated:	80				
14.	Problem faced:	Lack of skilled manpower and delay in getting the material on time cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Sakhare Siran Kuwapani Pokhari Niraman U.G. Chair Person: Dew Raj Rai Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Plantation and green belt formation on the river bank					
2.	Name of Program: Green belt formation on the river bank					
3.	Location: Sunbarsi	Ward: 1	Place: Dans khola kinar	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E 87 ⁰ 34'24"		N 26 ⁰ 36'16"			
6.	Cost:- a)Estimated:					
Office: 2.62,334(Including Contingency)		User: 8860		Others:		Total: 272334
b) Actual Expenditure:						
Office: 2,62,334		User: 8860		Others:		Total: 272334
7.	Objectives:	<ul style="list-style-type: none"> Stabilization of river bank 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Plantation on the river bank 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the plants and the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	River bank sabilization				
12.	Benefited HH	Total: 150	Dalit: 60	Janjati:40	Madhesi:	Other:50
13.	Employment Generated:	35				
14.	Problem faced:	Rainy season cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	The regular maintenance and if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Shree Dans Khola kirana Brikshyaropan sanrakshan samiiti Chair Person: Jay Bahadur shrestha Site Incharge: Ila Yadav Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Annual Fruit Plantation on slope area					
2.	Name of Program: Biannual Crops (fruit) Plantation on slope area					
3.	Location: Miklajung	Ward: 1	Place: Hattimara	F/Y: 2076/77		
4.	Name of River System: Bakraha River System					
5.	GPS Coordinate: E87 ⁰ 63'49.16" N26 ⁰ 45'3.08"					
6.	Cost:- a)Estimated:					
Office: 1,92,000(Including Contingency)		User: 8000		Others:		Total: 200000
b) Actual Expenditure:						
Office: 1,92,000		User: 8000		Others:		Total: 200000
7.	Objectives:	<ul style="list-style-type: none"> Livelihood upgrading 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Plantation of fruit plants on slope area 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the plants and the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	Livelihood upliftment and slope stabilization				
12.	Benefited HH	Total: 300	Dalit: 30	Janjati:150	Madhesi:	Other:120
13.	Employment Generated:	35				
14.	Problem faced:	Rainy season cause delay in the completion of the project.				
15.	Maintenance / Sustainability:	The regular maintenance and if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
17.	Other:	User Group Name: Koeli Community Forest U.G. Chair Person: Dinesh Paudel Site Incharge: Niraj Dahal Unit Officer: Bhim Bahadur Kalikote				



BALAN RIVER SYSTEM

1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work				
3	Location: Udayapurgadhi R. Municipality	Ward: 07	Place: Hadebaans	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.78617		Y: 86.84555		
6	Cost:- a) Estimated:				
Office:	2000000	User: 266579.29	Others:	Total: 2266579.29	
b) Actual Expenditure:					
Office:	1973760	User: 266579.29	Others:	Total: 2240339.29	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide and protect devitthanmandir and other properties. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 63	Dalit: 8	Janjati: 35	Madhesi: 0 Other: 20
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Balan Nadi Galchhi Pahiro Niyran UC, Block 1		
		Chair Person:	Ganesh Prashad Dahal		
		Site Incharge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work				
3	Location: Udayapurgadhi R. Municipality	Ward: 07	Place: Hadebaans	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.84277		Y: 86.54947		
6	Cost:- a) Estimated:				
Office:	200000	User: 266579.29	Others:	Total: 2266579.29	
b) Actual Expenditure:					
Office:	1973760	User: 266579.29	Others:	Total: 2240339.29	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide and its debris flow on the river. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 63	Dalit: 8	Janjati: 35	Madhesi: 0 Other: 20
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Budget was very low as compared to severity of landslide. More budget is needed to be allocated and other supporting structures are need to be made to control landslide and make existing structure sustainable.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Balan Nadi Galchhi Pahiro Niyran UC, Block 2		
		Chair Person:	Megh Bahadur Karki		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

ONGOING



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Udayapurgadhi R.M.	Ward: 06	Place: Krishna Dharwe, Solidhunga	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.84919		Y: 86.52398		
6	Cost:- a) Estimated:				
Office:	2000000	User: 272870.29	Others:	Total: 2272870.29	
b) Actual Expenditure:					
Office:	1910024	User: 272870.29	Others:	Total: 2182894.29	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and structures are saved.			
12	Benefited HH	Total: 48	Dalit: 5	Janjati: 30	Madhesi: 0 Other: 13
13	Employment Generated:	408 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Rupani Khola Khahare Niyrantran UC		
		Chair Person:	Jiwankala Tamang		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Udayapurgadhi R.M.	Ward: 06	Place: Naagbeli, Dhungre	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.84230		Y: 86.52034		
6	Cost:- a) Estimated:				
Office:	2000000	User: 272870.29	Others:	Total: 2272870.29	
b) Actual Expenditure:					
Office:	2322252	User:163579.55	Others:	Total: 2485832	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on base of landslide and other small gullies. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and debris flow has been reduced.			
12	Benefited HH	Total: 42	Dalit: 5	Janjati: 30	Madhesi: 0 Other: 7
13	Employment Generated:	420 Md.			
14	Problem faced:	Covid 19 and lockdown caused delay in timely payment of the work.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Naagbelidhunge Pahiyo Niyantaran UC		
		Chair Person:	Nir Bahadur Magar		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	BhimBahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Triyuga Municipality	Ward: 04	Place: Lalpatta	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.78055		Y: 86.57535		
6	Cost:- a) Estimated:				
Office:	200000	User: 256581.28	Others:	Total:2256581.28	
b) Actual Expenditure:					
Office:	1911052	User: 250581.28	Others:	Total: 2161633.28	
7	Objectives:	<ul style="list-style-type: none"> • To improve gully catchments to reduce and regulate the run off rates. • To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion Check dam and wall is constructed on the gully. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, bamboo and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the road at the point has become stable compared to previous years.			
12	Benefited HH	Total: 76	Dalit: 14	Janjati: 7	Madhesi: 0 Other: 55
13	Employment Generated:	420 Md.			
14	Problem faced:	Covid 19 and lockdown caused delay in timely payment of the work.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Lalpatta Khola Galchhi Nadi Niyrantran UC		
		Chair Person:	Powan Kumar Thapa		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

ONGOING



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: DhangadhimaiMun.	Ward: 14	Place: Jamuntaar	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.86519		Y: 86.13580		
6	Cost:- a) Estimated:				
Office:	2000000	User: 144264.20	Others:	Total:2144264.20	
b) Actual Expenditure:					
Office:	1973760	User: 144264.20	Others:	Total: 2118024.2	
7	Objectives:	<ul style="list-style-type: none"> • To improve gully catchments to reduce and regulate the run off rates. • To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion Check dam and wall is constructed on the gully. • Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12	Benefited HH	Total: 152	Dalit: 2	Janjati: 150	Madhesi: 0 Other:
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Khutti Khola Galchhi Pahiyo Niyantaran UC		
		Chair Person:	Bal Bahadur Tamang		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: Dhangadhimai Municipality	Ward: 14	Place: Jamuntaar, ChhesiKhola	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.87144		Y: 86.43742		
6	Cost:- a) Estimated:				
Office:	2000000	User: 271075.9	Others:	Total:2271075.9	
b) Actual Expenditure:					
Office:	1589288	User: 224383.46	Others:	Total: 1813671.46	
7	Objectives:	<ul style="list-style-type: none"> • To improve gully catchments to reduce and regulate the run off rates. • To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion Check dam and wall is constructed on the gully. • Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 155	Dalit: 13	Janjati: 155	Madhesi: 0 Other:
13	Employment Generated:	320 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Khutti Khola Galchhi Pahiرو Niyrantran UC		
		Chair Person:	Laldhowj Tamang		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: Dhangadhimai Municipality	Ward: 14	Place: SarreAmbaas	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.85713		Y: 86.41133		
6	Cost:- a) Estimated:				
Office:	2000000	User: 137058.98	Others:	Total: 2137058.98	
b) Actual Expenditure:					
Office:	1973760	User: 137058.98	Others:	Total: 2110818.98	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on the gully. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and agricultural land and settlement is saved.			
12	Benefited HH	Total: 154	Dalit:	Janjati: 154	Madhesi: 0 Other:
13	Employment Generated:	420 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Haphazard infrastructure development works such as motor road is one of the major cause of landslide in chure region.			
17	Other:	User Group Name:	Sarre Khola Galchhi Pahiro Niyantaran UC		
		Chair Person:	Dil Kumar Magar		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthen dam				
3	Location: LahanMunicipality	Ward: 05	Place: BaluwaTole	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.72565		Y: 86.48380		
6	Cost:- a) Estimated:				
Office:	7500000	User: 535403.47	Others:	Total: 8035403.47	
b) Actual Expenditure:					
Office:	7175440	User: 532403.47	Others:	Total: 7707843.47	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion revetment and earthen dam are provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 85	Dalit: 30	Janjati: 10	Madhesi: 0 Other: 45
13	Employment Generated:	1550 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Khutti KholaPurbi Nadi Niyrantran UC		
		Chair Person:	Jaya Kishun Prasad Sudi		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

DURING



DURING



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthen dam				
3	Location: Lahan Municipality	Ward: 10	Place: Khatar(MusalmanTole)	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.72770		Y: 86.48300		
6	Cost:- a) Estimated:				
Office:	3690000	User: 671539.37	Others:	Total: 4361539.37	
b) Actual Expenditure:					
Office:	3594675.45	User: 671539.37	Others:	Total: 4266214.81	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 180	Dalit: 100	Janjati: 50	Madhesi: 0 Other: 30
13	Employment Generated:	650 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Khutti khola Nadi Niyantran UC		
		Chair Person:	Gyandev Mandal		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program:	River Bank Stabilization				
2	Name of Activity:	Revetment, Toe wall and Spurs with Launching (Gabion Work) and Earthen Dam				
3	Location: Lahan Municipality	Ward: 10	Place: Gramin	F/Y: 2076/077		
4	Name of River System:	Balan River System				
5	GPS Coordinate:	X: 26.73003	Y: 86.48144			
6	Cost:- a) Estimated:					
Office:	4500000	User: 560139.07	Others:	Total: 5060139.07		
b) Actual Expenditure:						
Office:	4440960	User: 560139.07	Others:	Total: 5001099.07		
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land, rural road and human settlement within the area. 				
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring and protect the structure. • Gabion toe wall is provided to prevent overflow and river bank cutting. • Earthen dam is provided which is functioned as road that was previously damaged by flood. 				
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.				
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.				
12	Benefited HH	Total: 26	Dalit: 12	Janjati: 9	Madhesi: 0 Other: 5	
13	Employment Generated:	890 Md.				
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.				
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.				
17	Other:	User Group Name:	Shree SiddhesworMahadevKhuttikholaNadiNiyran UC			
		Chair Person:	Nabin Bahadur Karki			
		Site In charge:	Anil Kumar Chaudhary			
		Unit Officer:	Bhim Bahadur Kalikote			

BEFORE



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Revetment, Toe wall and Spurs with Launching (Gabion Work) and Earthen Dam				
3	Location: Lahan Municipality	Ward: 05	Place: KhuttiKholaPul	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.721880		Y: 86.485660		
6	Cost:- a) Estimated:				
Office:	7500000	User: 535403.47	Others:	Total: 8035403.47	
b) Actual Expenditure:					
Office:	7175440	User: 535403.47	Others:	Total: 7710843.47	
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring and protect the structure. • Gabion toe wall is provided to prevent overflow and river bank cutting. • Earthen dam is provided which is functioned as road that was previously damaged by flood. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 156	Dalit: 56	Janjati: 40	Madhesi: 0 Other: 60
13	Employment Generated:	1460 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Khutti Khola Nadi Niyran UC		
		Chair Person:	Pashupati Kumar Sah		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

ONGOING



AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Launching and Toe wall (Gabion Work)				
3	Location: Lahan Municipality	Ward: 9	Place: Lahan Goth	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.72706		Y: 86.48369		
6	Cost:- a) Estimated:				
Office:	810000	User: 81028.98	Others:	Total: 891028.98	
b) Actual Expenditure:					
Office:	700193.41	User: 81028.98	Others:	Total: 781222.39	
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring. • Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 60	Dalit: 15	Janjati: 40	Madhesi: 0 Other: 5
13	Employment Generated:	200 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Shree Goth Khutti Khola Niyantaran UC		
		Chair Person:	Devendra Sah		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation, Stone Masonry wall, RCC Dam Construction				
3	Location: Dhangadimai Municipality	Ward: 13	Place: Bhalutar, Durbin danda	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.82861		Y: 86.40775		
6	Cost:- a) Estimated:				
Office:	1500000	User: 223317.43	Others:	Total: 1723317.43	
b) Actual Expenditure:					
Office:	1232572	User: 191148.8	Others:	Total: 1423720.8	
7	Objectives:	<ul style="list-style-type: none"> • To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. • To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 29	Dalit: 3	Janjati: 24	Madhesi: 0 Other: 2
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Durbin Danda KhanepaniUC		
		Chair Person:	Indra Bahadur Tamang		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation				
3	Location: Surunga Municipality	Ward: 3	Place: Daulatpur	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.72401 Y: 86.53816				
6	Cost:- a) Estimated:				
Office:	1500000	User:	158578	Others:	Total: 1658578
b) Actual Expenditure:					
Office:	1480320	User:	158578	Others:	Total: 1638898
7	Objectives:	<ul style="list-style-type: none"> To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Pond was excavated and the outcome materials was piled up at the edge of pond creating earthen dam. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, and irrigation facility is eased.			
12	Benefited HH	Total: 360	Dalit: 100	Janjati: 200	Madhesi: 0 Other: 60
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Wetlands and conservation ponds not only helps in ground water recharge and maintaining moisture, it also plays a vital role in promoting tourism.			
17	Other:	User Group Name:	Dhapdhapiya Pokhari Nirmaan UC		
		Chair Person:	Hari Narayan Chaudhari		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation, Stone Masonry wall, RCC Dam Construction				
3	Location: Lahan Municipality	Ward: 15	Place: Mohanpur	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.79036		Y: 86.49764		
6	Cost:- a) Estimated:				
Office:	1500000	User: 223317.43	Others:	Total: 1723317.43	
b) Actual Expenditure:					
Office:	1480320	User: 223317.43	Others:	Total: 1703637.43	
7	Objectives:	<ul style="list-style-type: none"> To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 225	Dalit: 25	Janjati: 45	Madhesi: 0 Other: 175
13	Employment Generated:	495 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Bhumigat Jal Punbharnara Satahamuniko Pani UC		
		Chair Person:	Ram PukarYadav		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

DURING



AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation, Stone Masonry wall, RCC Dam Construction				
3	Location: Lahan Municipality	Ward: 17	Place: Daulatpur	F/Y: 2076/077	
4	Name of River System: Balan River System				
5	GPS Coordinate: X: 26.74421 Y: 86.50762				
6	Cost:- a) Estimated:				
Office:	1500000	User: 222569.62	Others:	Total: 1722569.62	
b) Actual Expenditure:					
Office:	1324649.96	User: 215517	Others:	Total: 1540166.96	
7	Objectives:	<ul style="list-style-type: none"> • To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. • To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased, irrigation and drinking water to domestic and wild animals was provided.			
12	Benefited HH	Total: 380	Dalit: 100	Janjati: 80	Madhesi: 0 Other: 200
13	Employment Generated:	495 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Devidaha Utkhanan Sarsafaitatha Inlet Nirmaan UC		
		Chair Person:	Mahendra Prasad Chaudhary		
		Site In charge:	Anil Kumar Chaudhary		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE



AFTER



BIRING RIVER SYSTEM

1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work				
3	Location: Arjundhara Municipality	Ward: 01	Place: Hattiahal, Mate	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.756755		Y: 88.023631		
6	Cost:- a) Estimated:				
Office:	1321908.73	User: 141003.6	Others:	Total: 1462912.33	
b) Actual Expenditure:					
Office:	1253440	User: 135000	Others:	Total: 1388440.4	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide and protect devitthan mandir and other properties. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 63	Dalit: 8	Janjati: 35	Madhesi: 0 Other: 20
13	Employment Generated:	280 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Bhase Pahiro Niyantaran UC		
		Chair Person:	Bijendra Kumar Yekten		
		Site Incharge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work				
3	Location: Arjundhara Municipality	Ward: 01	Place: Thulo Kholsi, Bhase, Gaumukhi	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.7705 Y: 88.016295				
6	Cost:- a) Estimated:				
Office:	2677767.64	User: 294258.84	Others:	Total: 2972026.48	
b) Actual Expenditure:					
Office:	2592616	User: 280258.84	Others:	Total: 2872874.84	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide and its debris flow on the river. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 344	Dalit: 29	Janjati: 119	Madhesi: 0 Other: 196
13	Employment Generated:	610 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Budget was very low as compared to severity of landslide. More budget is needed to be allocated and other supporting structures are need to be made to control landslide and make existing structure sustainable.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Bhase Pahiro Niyrantran UC		
		Chair Person:	Makkardhoj Yekten		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

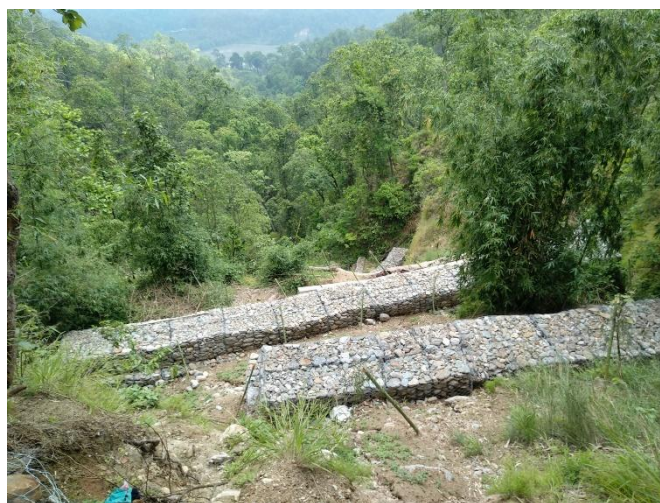
AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Mai Municipality	Ward: 05	Place: Krishna Ma. Vi., Thakle basti, Thakle	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.77391		Y: 87.94666		
6	Cost:- a) Estimated:				
Office:	1623910.4	User: 84661.07	Others:	Total: 1708571.47	
b) Actual Expenditure:					
Office:	1603680	User: 84661.07	Others:	Total: 1688341.07	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing landslide through bio-engineering process. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed along the gullies and landslide. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and structures are saved.			
12	Benefited HH	Total: 165	Dalit: 5	Janjati: 150	Madhesi: 0 Other: 10
13	Employment Generated:	408 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Thakle sthit Krishna Ma.Bi. Chheuko Pahiro Niyantaran UC		
		Chair Person:	Dipendra Das Rai		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work, Bamboo Plantation				
3	Location: Mai Municipality	Ward: 05	Place: Dhobikhola, Ghaiyaataar	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.80776		Y: 87.95529		
6	Cost:- a) Estimated:				
Office:	2376089.6	User: 163579.55	Others:	Total:	2539669.15
b) Actual Expenditure:					
Office:	2322252	User: 163579.55	Others:	Total:	2485832
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To control the existing dhobikhola landslide and its debris. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on base of landslide and other small gullies. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and debris flow has been reduced.			
12	Benefited HH	Total: 100	Dalit: 5	Janjati: 60	Madhesi: 0 Other: 35
13	Employment Generated:	910 Md.			
14	Problem faced:	Covid 19 and lockdown caused delay in timely payment of the work.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Ghaiyataar Dhobikhola Pahiro Niyantaran UC		
		Chair Person:	Bal Krishna Burja Magar		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Work				
3	Location: Rong Rural Municipality	Ward: 04	Place: Bhalaayodanda, Kalitaar	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.7852		Y: 88.0283		
6	Cost:- a) Estimated:				
Office:	2024000	User: 205471	Others:	Total:2229471	
b) Actual Expenditure:					
Office:	1979182	User: 205071	Others:	Total: 2184253	
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the existing budhabare-hokse road lying. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on the gully and gabion retaining wall on the road above. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the road at the point has become stable compared to previous years.			
12	Benefited HH	Total: 210	Dalit: 5	Janjati: 200	Madhesi: 0 Other: 5
13	Employment Generated:	555 Md.			
14	Problem faced:	Covid 19 and lockdown caused delay in timely payment of the work.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages. Once gullies have begun to form, however, they must be treated as soon as possible, to minimize further damage and restore stability.			
17	Other:	User Group Name:	Sundar CFUG		
		Chair Person:	Bal Bahadur Tamang		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

ONGOING

AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: Rong Rural Municipality	Ward: 02	Place: Asure, Kharbandi Puchhar, Baguwa	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.76444		Y: 87.97411		
6	Cost:- a) Estimated:				
Office:	2000000	User:	231104	Others:	Total:2231104
b) Actual Expenditure:					
Office:	1915574	User:	174503	Others:	Total: 2090077
7	Objectives:	<ul style="list-style-type: none"> To regulate the run off rates and control river bank cutting by sano nete river. To conserve/protect the settlement lying above. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on bank of sano nete river on three different location namely; baguwa tole, kharbandi puchhar and asure. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12	Benefited HH	Total: 36	Dalit: 6	Janjati: 10	Madhesi: 0 Other: 20
13	Employment Generated:	450 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.			
17	Other:	User Group Name:	Asure Baguwa Pahiyo Niyrantran UC		
		Chair Person:	Aaitaraj Khewaang		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control			
2	Name of Activity: Gabion Wall and Bamboo Plantation			
3	Location: Rong Rural Municipality	Ward: 02	Place: Mangaltaar, Badamtaar	F/Y: 2076/077
4	Name of River System: Biring River System			
5	GPS Coordinate: X: 26.79333		Y: 87.97411	
6	Cost:- a) Estimated:			
Office:	1975705	User: 189389.46	Others:	Total:2165094.46
b) Actual Expenditure:				
Office:	1881240	User: 133259	Others:	Total: 2014499
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the badamtar road above and settlement lying on the gully head. 		
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on the gully and gabion retaining wall on the road above. Bamboo plantation was done to control debris flow and check the surface erosion. 		
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.		
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.		
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.		
12	Benefited HH	Total: 204	Dalit: 13	Janjati: 114 Madhesi: 0 Other: 77
13	Employment Generated:	450 Md.		
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.		
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.		
16	Lesson learned:	Physical engineering structure is crucial for immediate control while bio engineering provides benefits in long run.		
17	Other:	User Group Name:	Kamare Paani Pahiro Niyantran UC	
		Chair Person:	Chandra Prasad Bhattarai	
		Site In charge:	Manish Acharya	
		Unit Officer:	Bhim Bahadur Kalikote	

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control				
2	Name of Activity: Gabion Wall and Bamboo Plantation				
3	Location: Rong Rural Municipality	Ward: 01	Place: Odhare and Barkhe Kholsi	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.77278		Y: 88.024234		
6	Cost:- a) Estimated:				
Office:	2000000	User: 213170.11	Others:	Total:	2213170.11
b) Actual Expenditure:					
Office:	1968620	User: 239638	Others:	Total:	2208258
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the Sanischare-Shantipur road. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion Check dam and wall is constructed on upper side and lower side of road in odhare kholsi and barkhe kholsi. Bamboo plantation was done to control debris flow and check the surface erosion. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the point is solved.			
12	Benefited HH	Total: 975	Dalit: 35	Janjati: 510	Madhesi: 0 Other: 430
13	Employment Generated:	594 Md.			
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Haphazard infrastructure development works such as motor road is one of the major cause of landslide in chure region.			
17	Other:	User Group Name:	Gante Tilhare Pahiro Niyantran UC		
		Chair Person:	Jeevan Dahal		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Gully, Landslide and Torrent Control			
2	Name of Activity: Gabion Checkdam			
3	Location: Rong Rural Municipality	Ward: 01	Place: Gante Pahren, Kagune	F/Y: 2076/077
4	Name of River System: Biring River System			
5	GPS Coordinate: X: 26.793944 Y: 88.018527			
6	Cost:- a) Estimated:			
Office:	2000000	User:	158023.39	Others:
b) Actual Expenditure:				
Office:	1972917.04	User:	201724	Others:
7	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the road located above landslide. 		
8	Conservation Measure / Technique applied:	Gabion Checkdam and wall is constructed on the gullies formed to reduce the run off as well as to control debris flow.		
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.		
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.		
11	Effect/impact:	Gullies are checked and sliding rate is reduced as compared to previous years.		
12	Benefited HH	Total: 72	Dalit: 5	Janjati: 57
13	Employment Generated:	445 Md.		
14	Problem faced:	Shortage of skilled labor was one of the factors causing delay in the completion of the project.		
15	Maintenance / Sustainability:	Budget was very low as compared to severity of landslide. More budget is needed to be allocated and other supporting structures are need to be made to control landslide and make existing structure sustainable.		
16	Lesson learned:	User Group approach is more effective only when the program directly benefits the user.		
17	Other:	User Group Name:	Gante Tilhare Pahren Nyantran UC	
		Chair Person:	Dev Kumar Rai	
		Site In charge:	Manish Acharya	
		Unit Officer:	Bhim Bahadur Kalikote	

BEFORE

AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Toe wall and Spurs with Launching (Gabion Work)				
3	Location: Arjundhara Municipality	Ward: 04	Place: Sukhani Dobhaan, Bhangbaari	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.694621 Y: 87.95967				
6	Cost:- a) Estimated:				
Office:	4500000	User: 446289.27	Others:	Total: 4946289.27	
b) Actual Expenditure:					
Office:	4438904	User: 446289.27	Others:	Total: 4885193.27	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 180	Dalit: 30	Janjati: 80	Madhesi: 0 Other: 70
13	Employment Generated:	1200 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Tangting Sukhani Dobhaan Dakshin Nadi Niyantaran UC		
		Chair Person:	Ekdev Khanal		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Toe wall and Spurs with Launching (Gabion Work)				
3	Location: Arjundhara Municipality	Ward: 01	Place: Biran, Sadhutaar	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.75423		Y: 88.01007		
6	Cost:- a) Estimated:				
Office:	4400000	User: 658821.28	Others:	Total: 5058821.28	
b) Actual Expenditure:					
Office:	4338160	User: 658821.28	Others:	Total: 4996981.28	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 180	Dalit: 30	Janjati: 80	Madhesi: 0 Other: 70
13	Employment Generated:	775 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Thulo Nete Purwa Baguwa Pahirotatbandhan Samiti		
		Chair Person:	Santosh Kumar Yekten		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program:	River Bank Stabilization				
2	Name of Activity:	Revetment, Toe wall and Spurs with Launching (Gabion Work) and Earthen Dam				
3	Location: Arjundhaara Municipality	Ward: 01	Place: Perunge		F/Y: 2076/077	
4	Name of River System: Biring River System					
5	GPS Coordinate: X: 26.76231		Y: 88.00751			
6	Cost:- a) Estimated:					
Office:	3621254.12	User: 385590.28	Others:	Total: 4006844.4		
b) Actual Expenditure:						
Office:	3510311.6	User: 341535	Others:	Total: 3851846.6		
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land, rural road and human settlement within the area. 				
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring and protect the structure. • Gabion toe wall is provided to prevent overflow and river bank cutting. • Earthen dam is provided which is functioned as road that was previously damaged by flood. 				
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.				
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.				
12	Benefited HH	Total: 87	Dalit: 10	Janjati: 47	Madhesi: 0 Other: 30	
13	Employment Generated:	632 Md.				
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.				
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.				
17	Other:	User Group Name:	Perunge Pahiro Khahare Tatha Galchhi UC			
		Chair Person:	Amabar Bahadur Rai			
		Site In charge:	Manish Acharya			
		Unit Officer:	Bhim Bahadur Kalikote			

BEFORE

AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Toe wall and Spurs with Launching (Gabion Work)				
3	Location: Mai Municipality	Ward: 05	Place: Simana basti, Kumbitaar	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.77194		Y: 87.95671		
6	Cost:- a) Estimated:				
Office:	5740000	User: 633754.13	Others:	Total: 6373754.13	
b) Actual Expenditure:					
Office:	5654000	User: 1028128.00	Others:	Total: 6682128.00	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring and protect the structure. Gabion toewall is provided to prevent overflow and river bank cutting. Spur is made to ckeck the velocity of water. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlemet is reduced.			
12	Benefited HH	Total: 83	Dalit: 7	Janjati: 67	Madhesi: 0 Other: 9
13	Employment Generated:	1130 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Kumbitaar (Simana Basti) Sthit Tangting Khola Niyantran UC		
		Chair Person:	Jas Bahadur Limbu		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

ONGOING

AFTER



1	Name of Program: River Bank Stabilization				
2	Name of Activity: Launching and Toe wall (Gabion Work)				
3	Location: Rong Rural Municipality	Ward: 2	Place: Bichkhet, Goyangkholā	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.78009		Y: 87.98184		
6	Cost:- a) Estimated:				
Office:	5728800	User: 633754.13	Others:	Total: 6362554.13	
b) Actual Expenditure:					
Office:	5329594	User: 573532.66	Others:	Total: 5903126.70	
7	Objectives:	<ul style="list-style-type: none"> To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Gabion launching is provided to prevent scouring. Gabion toe wall is provided to prevent overflow and river bank cutting. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 24	Dalit: 4	Janjati: 11	Madhesi: 0 Other: 9
13	Employment Generated:	1050 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Goyang Khola Niyrantran UC		
		Chair Person:	Khumba Tamang		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond expansion				
3	Location: Arjundhara Municipality	Ward: 03	Place: Falgunanda Simsaar, Kaidale	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.71144 Y: 87.96556				
6	Cost:- a) Estimated:				
Office:	1500000	User: 369066.43	Others:	Total: 1869066.43	
b) Actual Expenditure:					
Office:	1475180	User: 369066.43	Others:	Total: 1844246.43	
7	Objectives:	<ul style="list-style-type: none"> To upgrade existing Jukekhadi pond. To increase the catchment area and upgrade existing pond as tourist area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Upstream area of existing pond was excavated through mechanical means. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The area of pond was increased and more water was stored.			
12	Benefited HH	Total: 2083	Dalit: 292	Janjati: 499	Madhesi: 0 Other: 1292
13	Employment Generated:	100 Md.			
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	The location is suitable for tourism through wetland development. It needs more conservation and infrastructure development. Thus some amount budget has been allocated for next fiscal year.			
16	Lesson learned:	Wetlands and conservation ponds not only helps in ground water recharge and maintaining moisture, it also plays a vital role in promoting tourism.			
17	Other:	User Group Name:	Jukekhadi CFUG		
		Chair Person:	Dibya Pd. Kattel		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond excavation				
3	Location: Arjunthara Municipality	Ward: 5	Place: DMC Area, Baansbaari	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.67554 Y: 87.97413				
6	Cost:- a) Estimated:				
Office:	1500000	User:	248652	Others:	Total: 1748652
b) Actual Expenditure:					
Office:	1480320	User:	248652.00	Others:	Total: 1728972.00
7	Objectives:	<ul style="list-style-type: none"> To store the rain water by harvesting immediate runoff and providing aid in ground water recharge. To improve irrigation facility in dry season. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Pond was excavated and the outcome materials was piled up at the edge of pond creating earthen dam. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group managed required materials and equipment and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	Moisture around the area has been increased and it will also help in economic condition of community through IGA.			
12	Benefited HH	Total: 48	Dalit: 7	Janjati: 15	Madhesi: 0 Other: 26
13	Employment Generated:	250 Md.			
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Wetlands and conservation ponds not only helps in ground water recharge and maintaining moisture, it also plays a vital role in promoting tourism.			
17	Other:	User Group Name:	Arjunthara Disaster Management Committee		
		Chair Person:	Kedar Nath Parajuli		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Ground Water Recharge and its Utilization				
2	Name of Activity: Pond Upgrade through plumb wall construction				
3	Location: Arjundhara Municipality	Ward: 01	Place: Salbandi	F/Y: 2076/077	
4	Name of River System: Biring River System				
5	GPS Coordinate: X: 26.74405 Y: 88.010189				
6	Cost:- a) Estimated:				
Office:	1500000	User:	145143.95	Others:	Total: 1645143.95
b) Actual Expenditure:					
Office:	1480320	User:	145143.95	Others:	Total: 1625463.95
7	Objectives:	<ul style="list-style-type: none"> To upgrade existing Sakambari pond. To control runoff and leakage of water through pond and maintain moisture around the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> RCC Plumb wall was constructed around the pond. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the required materials as per estimate and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The water has been stored and pond was upgraded.			
12	Benefited HH	Total: 227	Dalit: 17	Janjati: 50	Madhesi: 0 Other: 160
13	Employment Generated:	495 Md.			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.			
17	Other:	User Group Name:	Sakambari Sanrachhan tatha Sambardhan Samiti		
		Chair Person:	Chandra Adhikari		
		Site In charge:	Manish Acharya		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER



1	Name of Program: Ground Water Recharge and its Utilization					
2	Name of Activity: Pond excavation and RCC embankment					
3	Location: Mai Municipality	Ward: 04	Place: Sukhani	F/Y: 2076/077		
4	Name of River System: Biring River System					
5	GPS Coordinate:	X: 26.73467	Y: 87.94621			
6	Cost:- a) Estimated:					
Office:	1500000	User: 146697.9	Others:	Total: 1646697.9		
b) Actual Expenditure:						
Office:	1446394	User: 143335.87	Others:	Total: 1589729.81		
7	Objectives:	<ul style="list-style-type: none"> To collect the rain water by controlling immediate run off and hence providing aid in ground water recharge. To maintain the soil moisture around the area and also providing the irrigation facility in dry seasons. 				
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Small torrent was blocked by RCC dam and upstream side was excavated to increase the capacity of pond. Earthen dam was provided on the both horizontal side and spillway on the downstream side of the dam. 				
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the required materials as per estimate and completed the work by using local manpower available.				
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11	Effect/impact:	The water has been stored by harvesting the run off water and soil moisture around the area has increased.				
12	Benefited HH	Total: 117	Dalit: 2	Janjati: 55	Madhesi: 0	Other: 60
13	Employment Generated:	495 Md.				
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.				
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.				
17	Other:	User Group Name:	Sukhani Pokhari Nirmaan UC			
		Chair Person:	Dambar Bahadur Limbu			
		Site In charge:	Manish Acharya			
		Unit Officer:	Bhim Bahadur Kalikote			

ONGOING

AFTER



BUDHI RIVER SYSTEM

1	Name of Program:	River Bank Stabilization				
2	Name of Activity:	Revetment with Launching (Gabion Work) and Earthen Dam, Bamboo Plantation				
3	Location: Kerabari Municipality	Ward: 07	Place: Okhaldhunga	F/Y: 2076/077		
4	Name of River System:	Budhi River System				
5	GPS Coordinate:	X: 26.78665	Y: 87.40814			
6	Cost:- a) Estimated:					
Office:	4500000	User: 385590.28	Others:	Total: 4006844.4		
b) Actual Expenditure:						
Office:	4454398.01	User: 385590.28	Others:	Total: 4813288.29		
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land, rural road and human settlement within the area. 				
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring and protect the structure. • Gabion toe wall is provided to prevent overflow and river bank cutting. • Earthen dam is provided which is functioned as road that was previously damaged by flood. 				
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.				
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.				
12	Benefited HH	Total: 808	Dalit: 50	Janjati: 550	Madhesi: 0 Other: 258	
13	Employment Generated:	950 Md.				
14	Problem faced:	Shortage of skilled labor caused the delay in the completion of the project.				
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.				
17	Other:	User Group Name:	Okhaldhunga Mansire Tatbandha UC			
		Chair Person:	Mani Chandra Limbu			
		Site In charge:	Ila Yadav			
		Unit Officer:	Bhim Bahadur Kalikote			

BEFORE

AFTER



1	Name of Program:	River Bank Stabilization			
2	Name of Activity:	Revetment with Launching (Gabion Work) and Earthen Dam, Bamboo Plantation			
3	Location: Kerabari Municipality	Ward: 3&10	Place: Deware	F/Y: 2076/077	
4	Name of River System:	Budhi River System			
5	GPS Coordinate:	X: 26.78705	Y: 87.41061		
6	Cost:- a) Estimated:				
Office:	4500000	User: 424780.10	Others:	Total: 4924780.10	
b) Actual Expenditure:					
Office:	4452361.55	User: 424780.10	Others:	Total: 4877141.65	
7	Objectives:	<ul style="list-style-type: none"> • To control the riverbank cutting and stabilize the flow of river. • To protect the agricultural land, rural road and human settlement within the area. 			
8	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Gabion launching is provided to prevent scouring and protect the structure. • Gabion toe wall is provided to prevent overflow and river bank cutting. • Earthen dam is provided which is functioned as road that was previously damaged by flood. 			
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone and completed the work by using local manpower available.			
10	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11	Effect/impact:	The risk of river bank cutting and damage of agricultural land and settlement is reduced.			
12	Benefited HH	Total: 808	Dalit: 50	Janjati: 550	Madhesi: 0 Other: 258
13	Employment Generated:	975 Md.			
14	Problem faced:	Shortage of skilled labor caused the delay in the completion of the project.			
15	Maintenance / Sustainability:	Structures require regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16	Lesson learned:	Big budgeted programs should be conducted through tender process as the local community lacks the required manpower.			
17	Other:	User Group Name:	Deware Kholsi Tatbandha UC		
		Chair Person:	Devi Ratna Chemjong		
		Site In charge:	Ila Yadav		
		Unit Officer:	Bhim Bahadur Kalikote		

BEFORE

AFTER

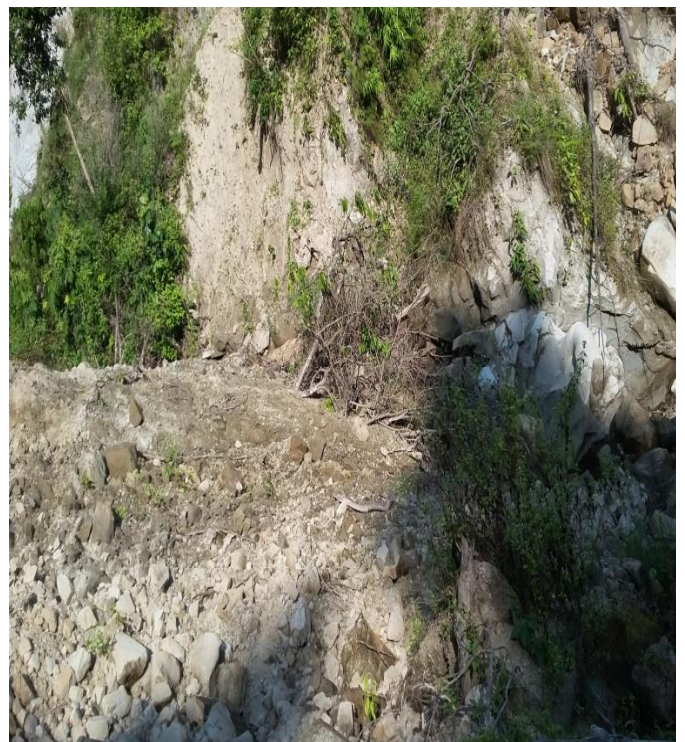


Name of Activity: Plantation and green belt formation on the river bank					
Name of Program: Green belt formation on the river bank					
Location: Sundarharaicha		Ward: 5	Place: Naya brindban, Gausala		F/Y: 2076/77
Name of River System: Budhi River System					
GPS Coordinate:					
Cost:- a)Estimated:					
Office: 1,65000(Including Contingency)		User: 32,855		Others:	Total: 197855
b) Actual Expenditure:					
Office: 165000		User: 32,855		Others:	Total: 197855
Objectives:	<ul style="list-style-type: none"> • Stabilization of river bank 				
Conservation Measure / Technique applied:	<ul style="list-style-type: none"> • Plantation on the river bank 				
Implementation process:	User group approach. According to the agreement, the concerned user group purchased the plants and the work by using local manpower available.				
Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
Effect/impact:	River bank sabilization				
Benefited HH	Total: 250	Dalit: 50	Janjati:100	Madhesi:	Other:100
Employment Generated:	35				
Problem faced:	Rainy season cause delay in the completion of the project.				
Maintenance / Sustainability:	The regular maintenance and if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity				
Other:	User Group Name: Shree Radhe Shyam Sewa Trust Chair Person: Dev Narayan Shrestha Site Incharge: Niraj Dahal Unit Officer: Bhim Bahadur Kalikote				



RATUWA RIVER SYSTEM

1.	Name of Activity: Gabion Checkdam					
2.	Name of Program: Gully and landslide control					
3.	Location: Chulachuli	Ward: 3	Place: Rikute Pahiرو			F/Y: 2076/77
4.	Name of River System: Ratuwa River System					
5.	GPS Coordinate: E 87.7680656551 N 26.7212536265					
6.	Cost:- a) Estimated					
Office: 20,00288.00 (With 4% contingency)		User: 99716.00		Others: 00.00		Total: 210004.00
b) Actual Expenditure:						
Office: 1907900.00		User: 98914.00		Others:00.00		Total: 2006814.00
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.				
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed.				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone then completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.				
12.	Benefited HH	Total: 105	Dalit: 5	Janjati: 70	Madhesi:	Other: 30
13.	Employment Generated:	1180 Mds				
14.	Problem faced:	Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.				
17.	Other:	User Group Name : Rikute Pahiرو Niyentran Upavokta Sammitee Chair Person: Sandesh Rai Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Checkdam, Bioengineering					
2.	Name of Program: Gully and landslide control					
3.	Location: Chulachuli	Ward: 3	Place: Tintale Pahiro			F/Y: 2076/77
4.	Name of River System: Ratuwa River System					
5.	GPS Coordinate: E 87.756531		N 26. 727506			
6.	Cost:- a) Estimated					
Office: 2000868 (With 4% contingency)		User: 104082.00		Others: 00.00		Total: 210,4950.00
b) Actual Expenditure:						
Office: 1386000.00		User: 75000.00		Others:00.00		Total: 1498976.00
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.				
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo and Amriso plantation was done to control debris flow and check the surface erosion.				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone then completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.				
12.	Benefited HH	Total: 123	Dalit: 3	Janjati: 100	Madhesi: 00	Other: 20
13.	Employment Generated:	801 Mds				
14.	Problem faced:	Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.				
17.	Other:	User Group Name : Tintale Pahiro Niyentran Upavokta Sammittee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				






1.	Name of Activity: Gabion Checkdam, Bioengineering				
2.	Name of Program: Gully and landslide control				
3.	Location: Chulachuli	Ward: 6	Place: Lukuwa Pahiro	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87.664857 N 26. 827057				
6.	Cost:- a) Estimated				
	Office: 2314260.00 (With 4% contingency)	User: 144675.00	Others:00.00	Total: 2458936.00	
	b) Actual Expenditure:				
	Office: 2225000.00	User: 160037.00	Others: 00.00	Total: 2446002.00	
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.			
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo and Amriso plantation was done to control debris flow and check the surface erosion			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone then completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12.	Benefited HH	Total: 340	Dalit: 21	Janjati: 297	Madhesi: 00 Other: 22
13.	Employment Generated:	1285 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity			
17.	Other:	User Group Name : Lukuwa Pahiro Niyentran Upavokta Sammitee Chair Person: Dik Bahadur Rai Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			

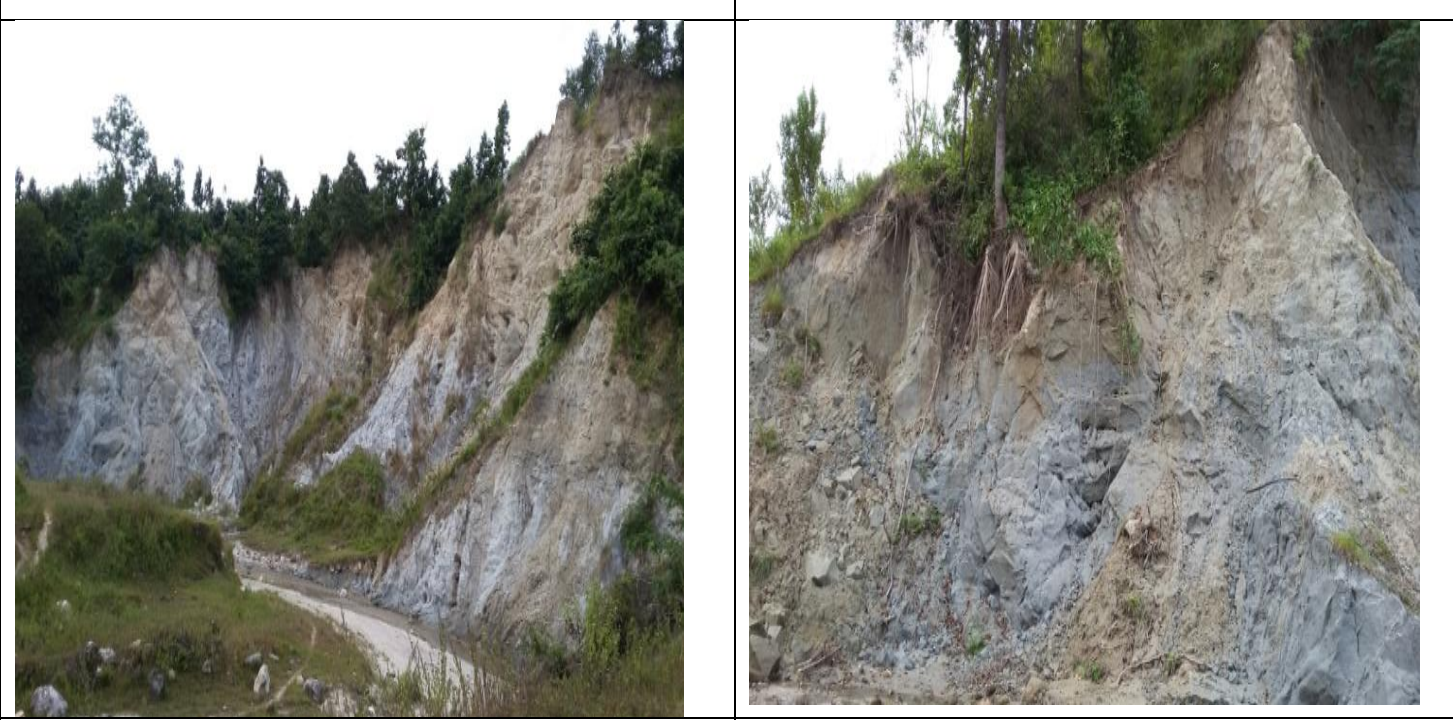


1.	Name of Activity: Gabion Checkdam, Bioengineering				
2.	Name of Program: Gully and landslide control				
3.	Location: Chulachuli	Ward: 6	Place: Dahar Pahiro	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87.677409 N 26.824974				
6.	Cost:- a) Estimated				
Office: 1686641(With 4% contingency)		User: 114460.00		Others: 00.00	Total: 1801101.00
b) Actual Expenditure:					
Office: 1621000		User: 114405		Others:	Total: 1779820
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.			
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo and Amriso plantation was done to control debris flow and check the surface erosion			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and stone then completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12.	Benefited HH	Total: 155	Dalit: 10	Janjati: 145	Madhesi: 00 Other: 00
13.	Employment Generated:	936 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.			
17.	Other:	User Group Name : Dahar Pahiro Niyentran Upavokta Sammittee Chair Person: Deu Kumar Rai Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Gabion Checkdam, Bioengineering				
2.	Name of Program: Gully and landslide control				
3.	Location: Chulachuli	Ward: 4	Place: Tirtire Pahi	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87.732833 N 26.720103				
6.	Cost:- a) Estimated				
Office: 2000000 (With 4% contingency)		User: 106104.00	Others: 00.00	Total: 2106104.00	
b) Actual Expenditure:					
Office: 1887400		User: 88187	Others:	Total: 1893896	
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.			
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo and Amriso plantation was done to control debris flow and check the surface erosion			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo cuttings then completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12.	Benefited HH	Total: 111	Dalit: 15	Janjati: 44	Madhesi: 00 Other: 52
13.	Employment Generated:	1261 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.			
17.	Other:	User Group Name : Bukuwa Khahare Niyentran Upavokta Sammittee Chair Person: Puspa Lal Pyakurel Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			
					

1.	Name of Activity: Gabion Checkdam, Bioengineering					
1.	Name of Activity: Gabion Checkdam, Bioengineering					
2.	Name of Program: Gully and landslide control					
3.	Location: Chulachuli	Ward: 4	Place: Biduwa Khola	F/Y: 2076/77		
4.	Name of River System: Ratuwa River System					
5.	GPS Coordinate: E 87.731103 N 26.718292					
6.	Cost:- a) Estimated					
Office: 2000013 (With 4% contingency)		User: 160285.00	Others: 00.00	Total: 2160298.00		
b) Actual Expenditure:						
Office: 1774537.00		User: 243368.00	Others: 00.00	Total: 2166458.00		
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.				
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo cuttings were planted. Gabion check dam is constructed. Bamboo and Amriso plantation was done to control debris flow and check the surface erosion				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo cuttings then completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.				
12.	Benefited HH	Total: 1080	Dalit: 180	Janjati:900	Madhesi: 00	Other: 00
13.	Employment Generated:	1010 Mds				
14.	Problem faced:	Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity				
17.	Other:	User Group Name : Biduwa Khola Pahirotatha Galchhi Niyentran Upavokta Sammittee Chair Person: Rajan Limbu Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				
						

2.	Name of Program: Gully and landslide control					
3.	Location: Chulachuli	Ward: 4	Place: Sanche Khola	F/Y: 2076/77		
4.	Name of River System: Ratuwa River System					
5.	GPS Coordinate: E 87.731415 N 26.719597					
6.	Cost:- a) Estimated					
Office: 2000055.87 (With 4% contingency)		User: 234819.00		Others: 00.00		Total: 2234874.87
b) Actual Expenditure:						
Office: 1751669		User: 324211		Others:		Total: 2123875
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.				
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo cuttings were planted.				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo cuttings then completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.				
12.	Benefited HH	Total: 1080	Dalit: 180	Janjati:900	Madhesi: 00	Other: 00
13.	Employment Generated:	1049				
14.	Problem faced:	Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.				
17.	Other:	User Group Name : Sanche Khola Pahiro Tatha Galchhi Niyentran Upavokta Sammitee Chair Person: Maham Prasad Tumrok Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				
						

1.	Name of Activity: Gabion Checkdam, Bioengineering				
2.	Name of Program: Gully and landslide control				
3.	Location: Chulachuli	Ward: 4	Place: Tirtire Pahiرو	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87.732833 N 26.720103				
6.	Cost:- a) Estimated				
Office: 2000968.87 (With 4% contingency)		User: 93965.00	Others: 00.00	Total: 2094933.87	
b) Actual Expenditure:					
Office: 1799900		User: 87860	Others:	Total: 1937077	
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.			
8.	Conservation Measure / Technique applied:	Gabion check dam is constructed. Bamboo cuttings were planted.			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo cuttings then completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled.			
12.	Benefited HH	Total: 1080	Dalit: 180	Janjati:900	Madhesi: 00 Other: 00
13.	Employment Generated:	1075 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.			
17.	Other:	User Group Name : Tirtire Pahiرو Galchhi Niyentran Upavokta Sammitee Chair Person: Narendra Bantawwa Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Gabion Checkdam				
2.	Name of Program: River Bank Stabilization Program				
3.	Location: Chulachuli	Ward: 2	Place: Nigare Tole	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87. 747424 N 26. 688326				
6.	Cost:- a) Estimated				
Office: 3000130.82 (With 4% contingency)		User: 223093.25	Others: 00.00	Total: 3223224.00	
b) Actual Expenditure:					
Office: 2884740		User: 223093	Others:	Total: 3186874	
7.	Objectives:	To conserve and stabilize of river bank To conserve and protect the settlement			
8.	Conservation Measure / Technique applied:	Launching, Toe-wall, Revetment were constructed on the western embankment on the side river.			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	Protection of river bank and the village side adjoining the river bank.			
12.	Benefited HH	Total: 153	Dalit: 3	Janjati:90	Madhesi: 00 Other: 60
13.	Employment Generated:	1522 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.			
17.	Other:	User Group Name : Chanju Khola Niyentran Upavokta Sammitee Chair Person: Rajendra Thapa Magar Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Gabion Checkdam				
2.	Name of Program: River Bank Stabilization Program				
3.	Location: Chulachuli	Ward: 3	Place: Peltimari, Kuinkel Tole	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87.741476 N 26.686364				
6.	Cost:- a) Estimated				
Office: 6000352.00 (With 4% contingency)		User: 444920.00		Others: 00.00	Total: 6445273.00
b) Actual Expenditure:					
Office: 5386554		User: 415383		Others:	Total: 5949528
7.	Objectives:	To conserve and stabilize of river bank To conserve and protect the settlement			
8.	Conservation Measure / Technique applied:	Launching, Toe-wall, Revetment were constructed on the western embankment on the side river.			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	Protection of river bank and the village side adjoining the river bank.			
12.	Benefited HH	Total: 65	Dalit: 5	Janjati: 40	Madhesi: 00 Other: 20
13.	Employment Generated:	3015 Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.			
17.	Other:	User Group Name : Chanju Khola Niyentran Upavokta Sammittee Chair Person: Bhim Kumar Rai Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Recharge Pond Construction				
2.	Name of Program: Ground Water Recharge and Utilization of Sub-surface Water				
3.	Location: Chulachuli	Ward: 3	Place: Shiva Orak Pokhari	F/Y: 2076/77	
4.	Name of River System: Ratuwa River System				
5.	GPS Coordinate: E 87.774259		N 26.711660		
6.	Cost:- a) Estimated				
Office: 1500276 (With 4% contingency)		User: 127086	Others: 00.00	Total: 1627362	
b) Actual Expenditure:					
Office: 1442000		User: 127035	Others:	Total: 1610564	
7.	Objectives:	Ground water recharge			
8.	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.			
11.	Effect/impact:	Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". The pond has served a number of purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.			
12.	Benefited HH	Total: 203	Dalit: 3	Janjati: 150	Madhesi: 00
13.	Employment Generated:	798Mds			
14.	Problem faced:	Unavailability of construction materials and labors on time.			
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
16.	Lesson learned:	Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.			
17.	Other:	User Group Name : Rateholi Pokhari Nirman Upavokta Sammitee Chair Person: Sancha Raj Limbu Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Recharge Pond Construction					
2.	Name of Program: Ground Water Recharge and Utilization of Sub-surface Water					
3.	Location: Chulachuli	Ward: 5	Place: Aarubote Holi	F/Y: 2076/77		
4.	Name of River System: Ratuwa River System					
5.	GPS Coordinate: E 87.719527 N 26.723206					
6.	Cost:- a) Estimated					
Office: 1500051 (With 4% contingency)		User: 209679		Others: 00.00		Total: 1709730
b) Actual Expenditure:						
Office: 1410000		User: 209679		Others:		Total: 1660305
7.	Objectives:	Ground water recharge				
8.	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:	Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". The pond has served a number of purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 111	Dalit: 15	Janjati: 44	Madhesi: 00	Other: 52
13.	Employment Generated:	781 Mds				
14.	Problem faced:	Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:	Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:					
17.	Other:	User Group Name : Bukuwa Bhumigat Jal Punarvaran Dyam Nirman Upavokta Sammittee Chair Person: Uddhab Neupane Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Recharge Pond Construction						
2.	Name of Program: Ground Water Recharge and Utilization of Sub-surface Water						
3.	Location: Chulachuli	Ward: 6	Place: Ranidhara CF	F/Y: 2076/77			
4.	Name of River System: Ratuwa River System						
5.	GPS Coordinate: E 87.686939N 26.761740						
6.	Cost:- a) Estimated						
Office: 1500000 (With 4% contingency)		User: 125222.00		Others: 00.00	Total: 1625223.00		
b) Actual Expenditure:							
Office: 1442000.00		User: 125202.00		Others:	Total: 1608731.00		
7.	Objectives:		Ground water recharge				
8.	Conservation Measure / Technique applied:		Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.				
9.	Implementation process:		User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.				
10.	Gender/social consideration:		From the selection of the activity to implementation of the work, women were equally involved in the process.				
11.	Effect/impact:		Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". The pond has served a number of purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH		Total: 56	Dalit: 6	Janjati: 46	Madhesi: 00	Other: 04
13.	Employment Generated:		797 Mds				
14.	Problem faced:		Unavailability of construction materials and labors on time.				
15.	Maintenance / Sustainability:		Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.				
16.	Lesson learned:						
17.	Other:		User Group Name : Debi Khahare Bhumigat Jal Punarvaran Dyam Nirman U. Sammittee Chair Person: Dambar bahadur Limbu Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				



Name of Activity: Recharge Pond Construction					
Name of Program: Ground Water Recharge and Utilization of Sub-surface Water					
Location: Damak		Ward: 10		Place: Indreni Tal	
F/Y: 2076/77					
Name of River System: Ratuwa River System					
GPS Coordinate: E 87.677522 N 26.611271					
Cost:- a) Estimated					
Office: 1500000.00 (With 4% contingency)		User:149277 .00		Others: 00.00	
Total: 16499277.00					
b) Actual Expenditure:					
Office: 1440000.00		User: 149277 .00		Others: 00.00	
Total: 1630749.00					
Objectives:		Ground water recharge			
Conservation Measure / Technique applied:		Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
Implementation process:		User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and bamboo and completed the work by using local manpower available.			
Gender/social consideration:		From the selection of the activity to implementation of the work, women were equally involved in the process.			
Effect/impact:		Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". The pond has served a number of purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.			
Benefited HH		Total: 490	Dalit: 30	Janjati: 160	Madhesi: 00
Employment Generated:		795 Mds			
Problem faced:		Unavailability of construction materials and labors on time.			
Maintenance / Sustainability:		Structure requires the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.			
Lesson learned:					
Other:		User Group Name : Indreni Tal Nirman UPavokta Sammittee Chair Person: Medani Prasad Kharel Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote			



LODHIYA RIVER SYSTEM

1.	Name of Activity : Gabion retaining wall					
2.	Name of Program : Gully, Landslide and Torrent control					
3.	Location : Teenghare	Ward: Mai Municipality-10	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate : 87.94257, 26.81978					
6.	Cost:- a) Estimated:					
Office: Rs. 20,00,000		User: Rs. 2,05,196.18	Others:	Total: Rs. 22,05,196.18		
b) Actual Expenditure:						
Office: Rs. 1960396		User: 200196.18	Others:	Total: 2160592.18		
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates To conserve/protect the agricultural land 				
8.	Conservation Measure / Technique applied:	In gully control of Teenghare region, structural measures such as check dams built from machine made Gabion box were constructed across the gully bed to stop channel and lateral erosion. Check dams were combined with retaining walls parallel to the gully axis in order to prevent the scouring and undermining of the gully.				
9.	Implementation process:	User group approach. According to the agreement, concerned user group purchased the gabion boxes and purchased stone to fill the gabion boxes complete the works.				
10.	Gender/social consideration:	From the selection of the activity to implementation, women equally involved in the works.				
11.	Effect/impact:	To some extent, the gully/ landslide is controlled, more than 0.5 ha. Agriculture land has been conserved.				
12.	Benefited HH	Total: 32	Dalit:	Janjati:29	Madhesi: Other:3	
13.	Employment Generated:	750 Mds				
14.	Problem faced:	User group had to move into the period of workers shortage due to the labor migration for foreign employment over the years.				
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Shree Teenghare Pahiro Nyantran Upabhokta Samiti Chair Person: Mr. Ashok Pithakote Site Incharge: Nikesh Kathayat Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity : Gabion check wall					
2.	Name of Program : Gully, Landslide and Torrent control					
3.	Location : Sano Bardu, Thade	Ward: Mai Municipality-5	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate : 87.93853, 26.80739					
6.	Cost:- a) Estimated:					
Office: Rs. 25,48,294.25		User: 2,43,577.58	Others:	Total: 27,91,871.83		
b) Actual Expenditure:						
Office: Rs. 2500096		User: 2,43,577.58	Others:	Total: 2743673		
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates To conserve/protect the agricultural land 				
8.	Conservation Measure / Technique applied:	After the feasibility study of the Thade landslide site, relevant gully improvement walls which are designed as free-draining retaining structure built from machine made gabion box has been chosen, constructed to retain the site. Additionally. bamboo plantation for bio-engineering purposes was introduced as a conservation measure to stabilize and rehabilitate the degraded area by preventing erosion and reducing shallow seated mass movement.				
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementaion arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.				
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.				
11.	Effect/impact:	After the implementation of the program, frequency and extent of landslides has apparently decreased in the Thade region increasing the resilience of these communities against the landslide effects.				
12.	Benefited HH	Total: 14	Dalit:	Janjati: 10	Madhesi:	Other: 4
13.	Employment Generated:	850 Mds				
14.	Problem faced:	User group had to move into the period of workers shortage due to the labour migration for foreign employment over the years.				
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	Appropriate planning will mitigate the economic and social costs which landslides impose. If user group are more involved, the implementation will be easier and would successfully complete the work.				
17.	Other:	User Group Name: Shree Thade Pahiro Niyantran Samiti Chair Person: Mr. Padam Bahadur Rana Site Incharge: Nikesh Kathayat Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity : Gabion Retaining wall				
2.	Name of Program : Gully, Landslide and Torrent control				
3.	Location : Sunarbhanjyang	Ward: Mai Municipality-5	Place: Ilam	F/Y: 2076/077	
4.	Name of River System : Lodhiya River System				
5.	GPS Coordinate : 87.92461, 26.78822				
6.	Cost:- a) Estimated:				
Office: Rs. 1,451,705.75		User: Rs. 74,284.80	Others:	Total: Rs. 1,525,990.55	
b) Actual Expenditure:					
Office: Rs. 1435088		User: Rs. 74284.80	Others:	Total: Rs. 1509372.8	
7.	Objectives:	To assess the site, determine a cost effective solution and then design, survey and implement the necessary work in order to control landslide of Sunarbhanjyang region. To conserve/protect the agricultural land and nearby roads.			
8.	Conservation Measure / Technique applied:	Stones filled machine made gabion retaining wall; an economical engineering approach was employed after earthwork around the affected site in Sunarbhanjyang area. Altogether, Gabion boxes were used to improve the gully catchments to reduce and regulate the run-off rates			
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementaion arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.			
10.	Gender/social consideration:	From the selection of the activity to implementaion, womens were equally involved in the work.			
11.	Effect/impact:	After the implementation of the program, frequency and extent of landslides has apparently decreased preventing destruction of infrastructure and damage to land and loss of natural resources.			
12.	Benefited HH	Total:	Dalit:2	Janjati: 25	Madhesi: Other: 15
13.	Employment Generated:	300 Mds			
14.	Problem faced:	User group had to move into the period of workers shortage due to the labour migration for foreign employment over the years.			
15.	Maintenance / Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintenance work as and when required.			
16.	Lesson learned:	Appropriate planning will mitigate the economic and social costs which landslides impose. If user group are more involved, the implementation will be easier and would successfully complete the work.			
17.	Other:	User Group Name: Shree Sunar Bhanjyang Pahiro Niyantran Samiti Chair Person: Mr. Tek Bahadur Limbu Site Incharge: Nikesh Kathayat Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity : Gabion Retaining wall				
2.	Name of Program : Gully, Landslide and Torrent control				
3.	Location : Teenghare	Ward: Mai Municipality-9	Place: Ilam	F/Y: 2076/077	
4.	Name of River System : Lodhiya River System				
5.	GPS Coordinate : 87.94260, 26.81980				
6.	Cost:- a) Estimated:				
Office: Rs. 20,00,000.00		User: Rs. 1,67,516.46	Others:	Total: Rs. 21,67,516.46	
b) Actual Expenditure:					
Office: Rs. 1973760		User: Rs. 1,67,516.46	Others:	Total: Rs. 2141276.46	
7.	Objectives:	<ul style="list-style-type: none"> To improve gully catchments to reduce and regulate the run off rates To conserve/protect the agricultural land 			
8.	Conservation Measure / Technique applied:	In gully control of Teenghare region, structural measures such as checkdams built from machine made Gabion box were constructed across the gully bed to stop channel and lateral erosion. Check dams were combined with retaining walls parallel to the gully axis in order to prevent the scouring and undermining of the gully.			
9.	Implementation process:	User group approach. According to the agreement, concerned user group purchased the gabion boxes and purchased stone to fill the gabion boxes complete the works.			
10.	Gender/social consideration:	From the selection of the activity to implementation, women equally involved in the works.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled, more than 0.5 ha. agriculture land has been conserved.			
12.	Benefited HH	Total: 33	Dalit:	Janjati: 29	Madhesi: Other: 4
13.	Employment Generated:	750 Mds			
14.	Problem faced:	User group had to move into the period of workers shortage due to the labour migration for foreign employment over the years.			
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintainance work as and when required.			
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17.	Other:	User Group Name: Shree Teenghare Ratekholi Pahiro Niyantran Upabhokta Samiti Chair Person: Mr. Manoj Kumar Magar Site Incharge: Nikesh Kathayat Unit Officer: Mr. Bhim Bahadur Kalikote			



1.	Name of Activity : Gabion Retaining wall, Bamboo Plantation				
2.	Name of Program : Gully, Landslide and Torrent Control				
3.	Location : Bolgaun	Ward: Mai Municipality-10	Place: Ilam	F/Y: 2076/077	
4.	Name of River System : Lodhiya River System				
5.	GPS Coordinate : 87.93183, 26.81956				
6.	Cost:- a) Estimated:				
Office: Rs. 20,00,000.00		User: Rs. 1,42,672.60	Others:	Total: Rs. 21,42,672.60	
b) Actual Expenditure:					
Office: Rs. 1944770.4		User: Rs. 1,42,672.60	Others:	Total: Rs 2087443	
7.	Objectives:	<ul style="list-style-type: none"> To control gully and landslide. To conserve/protect the agricultural land. 			
8.	Conservation Measure / Technique applied:	In gully control of Dhodeni region, structural measures such as checkdams built from machine made Gabion box were constructed across the gully bed to stop channel and lateral erosion.			
9.	Implementation process:	User group approach. According to the agreement, concerned user group purchased the gabion boxes and purchased stone to complete the works.			
10.	Gender/social consideration:	From the selection of the activity to implementation, women equally involved in the works.			
11.	Effect/impact:	To some extend, the gully/ landslide is controlled, more than 0.5 ha. agriculture land has been conserved.			
12.	Benefited HH	Total: 69	Dalit: 15	Janjati: 23	Madhesi: Other: 21
13.	Employment Generated:	750 Mds			
14.	Problem faced:	User group had to move into the period of workers shortage due to the labour migration for foreign employment over the years.			
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintainance work as and when required.			
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17.	Other:	User Group Name: Shree Gewa Bolgaun Dhodeni Pahiyo Nyantran Upabhokta Samiti Chair Person: Mr. Binod Nemwang Limbu Site Incharge: Nikesh Kathayat Unit Officer: Mr. Bhim Bahadur Kalikote			



1.	Name of Activity : Gabion Retaining wall					
2.	Name of Program : Gully Landslide and Torrent Control					
3.	Location : Bistagaun	Ward: Mai Municipality-9	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate : 26.780131, 87.79961					
6.	Cost:- a) Estimated:					
Office: Rs. 20,00,000.00		User: Rs. 2,27,901.48		Others:		Total: Rs. 22,27,901.48
b) Actual Expenditure:						
Office: Rs. 1973760		User: Rs. 2,27,901.48		Others:		Total: Rs. 2201661
7.	Objectives:	To assess the site, determine a cost effective solution and then design, survey and implement the necessary work in order to control landslide of Bistagaun region To conserve/protect the agricultural land and nearby roads				
8.	Conservation Measure / Technique applied:	Stones filled machine made gabion retaining walls, an economical engineering approach were installed around the affected site.				
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementation arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.				
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.				
11.	Effect/impact:	After the implementation of the program, frequency and extent of landslides has apparently decreased preventing destruction of infrastructure and damage to land and loss of natural resources.				
12.	Benefited HH	Total: 100	Dalit:10	Janjati: 55	Madhesi:	Other: 35
13.	Employment Generated:	500 Mds				
14.	Problem faced:	Due to the shortage of local labours, large proportion of imported labour on construction of gabion embankment created the construction a bit costly.				
15.	Maintenance / Sustainability:	Replanting vegetative materials and lining out of construction and channels should be done at least every season for the sustainability of the structure.				
16.	Lesson learned:	A gully develops in three distinct stages; waterfall erosion; channel erosion along the gully bed; and landslide erosion on gully banks. Correct gully control measures must be determined according to these development stages.				
17.	Other:	User Group Name: Shree Bistagaun Thulo Pahiro Niyantaran Samiti Chair Person: Mr. Mani Gurung Site Incharge: Nikesh Kathayat Unit Officer: Mr. Bhim Bahadur Kalikote				



1.	Name of Activity : Gabion check dam					
2.	Name of Program : Gully Landslide and Torrent Control					
3.	Location : Sombare	Ward: Mai Municipality-9	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate : 26.840454, 87.926471					
6.	Cost:- a) Estimated:					
	Office: Rs. 20,00,000.00	User: Rs. 1,91,299.14	Others:	Total: Rs. 21,91,299.14		
	b) Actual Expenditure:					
	Office: Rs. 1970676	User: Rs. 191299	Others:	Total: Rs2161975		
7.	Objectives:	<ul style="list-style-type: none"> To control gully and landslide To conserve/protect the agricultural land 				
8.	Conservation Measure / Technique applied:	Stones filled machine made gabion checkdams/retaining wall, an economical engineering approach was employed after earthwork around the affected site in Sombare region.				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes and purchased stone to complete the work.				
10.	Gender/social consideration:	From the selection of the activity to implementaion, women were equally involved in all stages of the work.				
11.	Effect/impact:	To some extend, the gully/ landslide is controlled, more than 0.2 ha. agriculture land has been conserved .				
12.	Benefited HH	Total: 42	Dalit:11	Janjati: 21	Madhesi:	Other: 10
13.	Employment Generated:	550 Mds				
14.	Problem faced:	User group had to move into the period of workers shortage due to the labour migration for foreign employment over the years.				
15.	Maintenance / Sustainability:	After the construction and completion of the structures at different parts of the gully regular maintenances have to be carried out. However, no maintainance fund is allocated but user groups will do when require				
16.	Lesson learned:	Appropriate planning will mitigate the economic and social costs which landslides impose. If user group are more involved, the implementation will be easier and would successfully complete the work.				
17.	Other:	User Group Name: Shree Sombare Chure Pahiro Nyantran Samiti Chair Person: Mr. Anil Tamang Site Incharge: Nikesh Kathayat Unit Officer: Mr. Bhim Bahadur Kalikote				



1.	Name of Activity : Gabion check dam and retaining wall				
2.	Name of Program : Gully Landslide and Torrent Control				
3.	Location : Rangapani, Chisapani	Ward: Mai Municipality-9	Place: Ilam	F/Y: 2076/077	
4.	Name of River System : Lodhiya River System				
5.	GPS Coordinate : 87.92087, 26.85009				
6.	Cost:- a) Estimated:				
Office: Rs. 20,00,000.00		User: Rs.2,57,314.96	Others:	Total: Rs. 22,57,314.96	
b) Actual Expenditure:					
Office: Rs. 1961424		User: Rs.257314	Others:	Total: Rs. 2218738	
7.	Objectives:	<ul style="list-style-type: none"> To reduce sediment transportation and thus to minimize bed and bank erosion To prevent and mitigate the flash floods and general flood, as well as to ensure safe passage of flood 			
8.	Conservation Measure / Technique applied:	Stones filled machine made gabion checkdams/embankments, an economical engineering approach was undertaken to improve the site and its banks in order to change the waterway pattern and reduce the velocity of flow. Altogether, 145 Gabion box (size= 3x1x1/1 m) were used to build the proposed structure.			
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementation arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.			
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.			
11.	Effect/impact:	To some extent, the gully/ landslide is controlled, more than 0.1 ha. agriculture land has been conserved.			
12.	Benefited HH	Total: 85	Dalit:10	Janjati: 50	Madhesi: Other: 25
13.	Employment Generated:	650 Mds			
14.	Problem faced:	It was difficult to get labour contribution from the user group to fulfill their role in people participation due to their unwillingness to take part in the work.			
15.	Maintenance / Sustainability:	If possible check dams should be inspected regularly for sediment accumulation after each significant rainfall. Sediment should be removed when it reaches one-half of the original height or before.			
16.	Lesson learned:	Each continuous gully in a gully system should be regarded as a basic treatment unit, and all the control measures in that unit should be finished before the rainy season.			
17.	Other:	User Group Name: Shree Rangapani Pahiro Sanrakshan Samiti Chair Person: Mr. Ganesh Tamang Site Incharge: Nikesh Kathayat Unit Officer: Mr. Bhim Bahadur Kalikote			



1.	Name of Activity : Pond excavation, RCC check dam, Stone Masonry Wall					
2.	Name of Program : Ground Water Recharge and Utilization of Sub surface water					
3.	Location : Fulbari	Ward: Mai Municipality-7	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate : 26.77665, 87.80763					
6.	Cost:- a) Estimated:					
Office: Rs. 15,00,000.00		User: Rs. 1,62,809.66		Others:		Total: 1,662,809.66
b) Actual Expenditure:						
Office: Rs. 1469012		User: Rs. 162809		Others:		Total: 1631821
7.	Objectives:	To store as much rainwater as possible where it falls during the monsoon and save it for non-rainy season either in the pond itself or through recharge in the groundwater below it.				
8.	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, and at the other ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.				
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementaion arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.				
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.				
11.	Effect/impact:	Ponds are an appropriate and practical means of establishing such a system for collection and storing water or in other words for replenishing the "water tower". Constructed pond water has already been used for watering animals and kitchen gardens irrigation. The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 61	Dalit:	Janjati: 50	Madhesi:	Other: 11
13.	Employment Generated:	250 Mds				
14.	Problem faced:	One of the striking characteristics of this region is that the people have depended on income from sources outside the region because the income from the farm production has not been sufficient to meet their needs. Scenarios such as the insufficient irrigation system has resulted low farm production.				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintainance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Shree Fulbari Bahuupayogi Pokhari Nirman Upabhokta Samiti Chair Person: Mr. Prem Bahadur Rai Site In charge: Nikesh Kathayat Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity : Pond excavation, Gabion check wall, RCC Check dam				
2.	Name of Program : Ground Water Recharge and Utilization of Sub surface water				
3.	Location : Pandau, Thotari	Ward: Mai Municipality-7	Place: Ilam	F/Y: 2076/077	
4.	Name of River System : Lodhiya River System				
5.	GPS Coordinate : 26.82208, 87.91662				
6.	Cost:- a) Estimated:				
	Office: Rs. 22,27,920.00	User: Rs. 3,77,281.00	Others:	Total: Rs. 26,05,201.00	
	b) Actual Expenditure:				
	Office: Rs. 2173192	User: Rs. 377281	Others:	Total: Rs. 2550473	
7.	Objectives:	To store as much rainwater as possible where it falls during the monsoon and save it for non-rainy season either in the pond itself or through recharge in the groundwater below it.			
8.	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, other with gabion lining and at the other two ends are those simple dugout types without any lining. Infiltration can take place from the sides and bottoms of the ponds.			
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementaion arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.			
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.			
11.	Effect/impact:	Constructed pond water has already been used for watering animals and kitchen gardens irrigation. The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.			
12.	Benefited HH	Total: 75	Dalit: 25	Janjati: 44	Madhesi: Other: 6
13.	Employment Generated:	650 Mds			
14.	Problem faced:	One of the striking characteristics of this region is that the people have depended on income from sources outside the region because the income from the farm production has not been sufficient to meet their needs. Scenarios such as the insufficient irrigation system has resulted low farm production.			
15.	Maintenance Sustainability:	No maintenance fund is there but user groups will carry out the repairment and maintenance work as and when required.			
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17.	Other:	User Group Name: Shree Pandau Bahuupayogi Pokhari Nirman Upabhokta Samiti Chair Person: Mr. Khadga Bahadur Limbu Site Incharge: Nikesh Kathayat Unit Officer: Bhim Bahadur Kalikote			



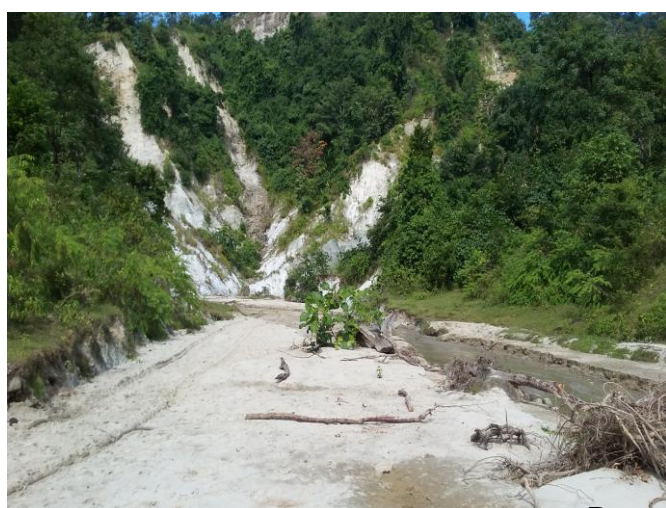
1.	Name of Activity : Rain water run off harvesting RCC dam					
2.	Name of Program : Ground Water Recharge and Utilization of Sub surface water					
3.	Location : Kichkanya holi	Ward: Chulachuli RM-1	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate : 26.62628, 87.78294					
6.	Cost:- a) Estimated:					
Office: Rs. 15,00,000.00		User: Rs. 182382.15		Others:		Total: Rs. 1682382.15
b) Actual Expenditure:						
Office: Rs. 1480320		User: Rs. 182382.15		Others:		Total: Rs. 1662702.15
7.	Objectives:	To store as much rainwater as possible where it falls during the monsoon and save it for non-rainy season either in the pond itself or through recharge in the groundwater below it.				
8.	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining, other with gabion lining and at the other two ends are those simple dugout types without any lining.				
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementation arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.				
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.				
11.	Effect/impact:	Constructed pond water has already been used for watering animals and kitchen gardens irrigation. The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 90	Dalit: 5	Janjati: 57	Madhesi:	Other: 28
13.	Employment Generated:	650 Mds				
14.	Problem faced:	Shortage of skilled manpower caused delay in the work completion.				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintainance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Kichkanya Jal Punarbharan Pokhari Nirman Upabhokta Samiti Chair Person: Mr. Jeet Bahadur Aangdembe Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity : Rain water run off harvesting RCC dam					
2.	Name of Program : Ground Water Recharge and Utilization of Sub surface water					
3.	Location : Hattileda	Ward: Chulachuli RM-1	Place: Ilam	F/Y: 2076/077		
4.	Name of River System : Lodhiya River System					
5.	GPS Coordinate :26.69262, 87.77741					
6.	Cost:- a) Estimated:					
Office: Rs. 1500000.00		User: Rs. 182468.67		Others:	Total: Rs. 1682468.67	
b) Actual Expenditure:						
Office: Rs. 1482376		User: Rs. 182468.67		Others:	Total: Rs. 1664844.67	
7.	Objectives:	To store as much rainwater as possible where it falls during the monsoon and save it for non-rainy season either in the pond itself or through recharge in the groundwater below it.				
8.	Conservation Measure / Technique applied:	Recharge pond was constructed to hold water as well as to percolate it down into the ground water system. At one end of the spectrum of the pond, was built with heavy masonry and concrete lining.				
9.	Implementation process:	By adopting user group management approach, concerned user group where responsible for implementaion arrangements and solutions were devised methodically and with frequent appropriate consultation with PIU, Salakpur.				
10.	Gender/social consideration:	During the implementation of the program, gender balance was maintained in all areas of decision-making, and in access to and control over resources and services.				
11.	Effect/impact:	Constructed pond water has already been used for watering animals and kitchen gardens irrigation. The pond has served a number of other purposes like maintaining soil moisture for the growth of shallow rooted vegetation, enhancing natural rates of groundwater recharge and low cost method of augmenting groundwater sources.				
12.	Benefited HH	Total: 90	Dalit: 18	Janjati: 52	Madhesi: Other: 30	
13.	Employment Generated:	650 Mds				
14.	Problem faced:	One of the striking characteristics of this region is that the people have depended on income from sources outside the region because the income from the farm production has not been sufficient to meet their needs. Scenarios such as the insufficient irrigation system has resulted low farm production.				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintainance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Dahalkhosi jalpunarbharan Pokhari Nirman Upabhokta Samiti Chair Person: Mr. Sukar Raj Lawati Site Incharge : Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote				

BEFORE

AFTER



SUNSARI (SARDU SEUTI) RIVER SYSTEM

1.	Name of Activity: Gabion Box Breast wall, launching and Check Dam					
2.	Name of Program: Gully, Landslide Protection Program					
3.	Location: Dharan U.M. Na.Pa.	Ward: 20	Place: Karkichap, Devigaun,	F/Y: 2076/77		
4.	Name of River System: Sunsari (Sardu seuti) River System					
5.	GPS Coordinate: E 87 ⁰ 15'16.89'' N 26 ⁰ 49'38.32''					
6.	Cost:- a) Estimated:					
Office: 3840000		User: 165131		Others:	Total: 4165131(Including Contingency)	
b) Actual Expenditure:						
Office: 3947520		User: 165131		Others:	Total: 4112651	
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land and Forest Area To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the earthen embankment on the side river. Bamboo plantation was done on the slope of the earthen embankment. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household and forest. In total 100 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 15	Dalit:	Janjati: 130	Madhesi:	Others: 145
13.	Employment Generated:	550 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Sardu Pakuwa khola Niyrantran U.G. Chair Person: Bijaya Tamang Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Gabion Box Revetment and Lanching Apron, Bioengineering					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Dharan U.M. Na.Pa.	Ward: 13	Place: Devimarga, Sardu Khola	F/Y: 2076/77		
4.	Name of River System: Sunsari (Sardu, Seuti) River System					
5.	GPS Coordinate: E 87 ⁰ 16'57.85'' N 26 ⁰ 49'59.31''					
6.	Cost:- a) Estimated:					
Office: 7200000		User: 540321		Others:		Total: 8040321(Including Contingency)
b) Actual Expenditure:						
Office: 7401600		User: 540321		Others:		Total: 7941921
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Launching, Toe-wall, Revetment were constructed on the side river. Bamboo Plantation was done on the slope. 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the gabion boxes, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 600 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 87	Dalit: 4	Janjati: 70	Madhesi:	Others: 13
13.	Employment Generated:	1050 md				
14.	Problem faced:	<ul style="list-style-type: none"> Boulder collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Sardu Khola Bandhi Niyantran U.G. Chair Person: Sundari Shrestha Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				



1.	Name of Activity: Plumb Concrete, Bioengineering				
2.	Name of Program: River Bank Stabilization Program				
3.	Location: Dharan U.M. Na.Pa.	Ward: 16	Place: Punya Marg, Sardu Khola	F/Y: 2076/77	
4.	Name of River System: Sunsari (Sardu, Seuti) River System				
5.	GPS Coordinate: E 87 ⁰ 16'26.93'' N 26 ⁰ 49'36.24''				
6.	Cost:- a) Estimated:				
Office: 4800000		User: 604590		Others:	Total: 5604590 (Including Contingency)
b) Actual Expenditure:					
Office: 4934400		User: 604590		Others:	Total: 5538990
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 			
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Plumb Concrete on the side river. Bamboo Plantation was done on the slope . 			
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the cement, stone and completed the work by using local manpower available.			
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.			
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 500 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 			
12	Benefited HH	Total: 150	Dalit: 30	Janjati: 100	Madhesi: Others: 20
13	Employment Generated:	950 md			
14	Problem faced:	<ul style="list-style-type: none"> meterials collection work became difficult it were collected from distant region . 			
15	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.			
16	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.			
17	Other:	User Group Name: Sardu Khola Bandhi Niyrantran U.G. Chair Person: Chet Bahadur Rai Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote			



1.	Name of Activity: Plumb Concrete, Bioengineering					
2.	Name of Program: River Bank Stabilization Program					
3.	Location: Dharan U.M. Na.Pa.	Ward: 16	Place: Pulchowk, Sardu Khola	F/Y: 2076/77		
4.	Name of River System: Sunsari (Sardu, Seuti) River System					
5.	GPS Coordinate: E 87 ⁰ 16'8.97'' N 26 ⁰ 49'32.84''					
6.	Cost:- a) Estimated:					
Office: 2400000		User: 381395		Others:		Total: 2881395 (Including Contingency)
b) Actual Expenditure:						
Office: 2467200		User: 381395		Others:		Total: 2848595
7.	Objectives:	<ul style="list-style-type: none"> To protect River Bank and adjacent farm land. To conserve and protect the settlement. 				
8.	Conservation Measure / Technique applied:	<ul style="list-style-type: none"> Plumb Concrete on the side river. Bamboo Plantation was done on the slope . 				
9.	Implementation process:	User group approach. According to the agreement, the concerned user group purchased the cement, stone and completed the work by using local manpower available.				
10.	Gender/social consideration:	From the selection of the activity to implementation of the work, women were equally involved in each step of the process.				
11.	Effect/impact:	<ul style="list-style-type: none"> River Bank erosion is minimized and provided safe the adjacent household. In total 500 house holds are benifitted from the programme. Minimized the flood disaster on farm land. 				
12.	Benefited HH	Total: 1500	Dalit: 100	Janjati: 800	Madhesi:	Others: 600
13.	Employment Generated:	950 md				
14.	Problem faced:	<ul style="list-style-type: none"> materials collection work became difficult it were collected from distant region . 				
15.	Maintenance / Sustainability:	No maintainance fund is there but user groups will carry out the repairment and maintenance work as and when required.				
16.	Lesson learned:	If user group are more involved, the implementation will be easier and would successfully complete the work. Awareness creation, empowerment and mobilization of user group is essential before real implementation of the activity.				
17.	Other:	User Group Name: Pulchowk Pragatimarga Sardu Khola Tatbandhan Samiti. Chair Person: Maiya Shrestha Site Incharge: Niraj Prasad Dahal Unit Officer: Bhim Bahadur Kalikote				

