

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, Lunching And Checkdam							
2.	Name of Program: Land Slide Control (Model Site Development)							
3.	Location: Saptakoshi Na	Pa. Wa	rd: 1 Place	: Satrapatra Kho	ola F	/Y: 2076/77		
4.	Name of River System :							
5.	GPS Coordinate: E 86 <sup>0</sup> 54	4'57.44'' N 26	5 <sup>°</sup> 44'29.05''					
6.	Cost:- a) Estimated:							
Office	e: 2884615	User: 321919		Others:	Total: 3326919(Incl	uding Contingency)		
	b) Actual Expenditu	ure:						
Office	e: 2989599.6	User: 321919		Others:	Total: 3311518.6			
7.	Objectives:	To protect Riv	ver Bank and a	djacent farm la	nd and Forest Area			
		To conserve a	and protect the	settlement.				
8.	Conservation Measure /	• Launching, T	oe-wall,Revetn	nent and Checko	lam were constructe	d on the side river.		
	Technique applied:							
9.	Implementation process:	User group approa	ch. According	to the agreemen	t, the concerned user	r group purchased the		
		gabion boxes, ston	e and complete	d the work by u	sing local manpowe	r available.		
10.	Gender/social	From the selection	of the activity	to implementati	on of the work, won	nen were equally		
	consideration:	involved in each st	ep of the proce	ss.				
11.	Effect/impact:	River Bank er	osion is minim	ized and provid	ed safe the adjacent	household and forest.		
		• In total 1000	house holds are	benifitted from	the programme.			
		Minimized th	e 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:	Boulder colle	ction work beca	ame difficult it	were collected from	distant region.		
15	Maintenance /	No maintainance f	und is there but	user groups wi	ll carry out the repai	rment and		
	Sustainability:	maintenance work	as and when re	quired.				
16	Lesson learned:	If user group are m	ore involved, t	he implementat	ion will be easier and	d would successfully		
		complete the work	. Awareness cr	eation, empowe	rment and mobilizat	ion of user group is		
		essential before rea	essential before real implementation of the activity.					
17	Other:	User Group Name	: Satrapatra Kh	ola PairoNiyant	ran U.G.			
		Chair Person: Bika	ish Ghimire					
		Site Incharge: Nira	ij Prasad Dahal					
		Unit Officer: Bhin	n Bahadur Kalil	cote				



1	Name of Program: Kurra and Baunna River Control							
2	Name of Activity	: Toe wall and Spu	rs with Launchin	g (Gabion Work) and	Bamboo Plantat	ion		
3	Location: Surunga Municipality Ward: 02 Place: Baunna, Gunja Tole F/Y: 2076/077							
4	Name of River S	ystem: N/A	·					
5	GPS Coordinate:	X: 26.77	79018 Y:	86.534268				
6	Cost:- a) Estimate	ed:						
Office:	2000000	User: 2634	14.21	Others:	Total:	2263414.21		
	b) Actual Expe	enditure:						
Office:	1908996	User: 2604	14.21	Others:	Total:	2169410.21		
7	Objectives:	<ul><li>To control the river</li><li>To protect the agric</li></ul>	bank cutting and cultural land and	stabilize the flow of numan settlement with	river. hin the area.			
8	Conservation Measure / Technique applied:	<ul> <li>Gabion launching is provided to prevent scouring and protect the structure.</li> <li>Gabion toe wall is provided to prevent overflow and river bank cutting.</li> </ul>						
9	Implementation process:	User group approach gabion boxes and sto	a. According to the total to the total tot	e agreement, the cond the work by using lo	cerned user group ocal manpower av	purchased the vailable.		
10	Gender/social consideration:	From the selection o involved in the proce	f the activity to in ess.	nplementation of the	work, women we	re equally		
11	Effect/impact:	The risk of river bar	nk cutting and dat	nage of agricultural la	and and settlemer	nt 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 la project.	abor and Covid 1	lockdown caused th	e delay in the cor	npletion of the		
15	Maintenance / Sustainability:	ance / Structures require regular maintenance and repairs if they get damaged. However, bility: maintenance fund is not allocated for the project but will do when required.						
16	Lesson learned:	Big budgeted progra lacks the required m	ms should be con anpower.	ducted through tende	r process as the lo	ocal community		
		User Group Name:	Baunna Khola	Nadi Niyantran UC				
17	Othom	Chair Person:	Tilak Bahadur	Khapangi Magar				
1/	Other:	Site In charge:	Anil Kumar Ch	audhary				
		Unit Officer:	Bhim Bahadur	Kalikote				





1	Name of Program: Kurra and Baunna River Control							
2	Name of Activity	: Toe wall and Spu	rs with Launchi	ng (Gabion Work) and	d Bamboo Plantat	ion		
3	Location: Surunga MunicipalityWard: 02Place: Kurrah, Raksha Pandey ToleF/Y: 2076/077							
4	Name of River S	ystem: N/A						
5	GPS Coordinate:	X: 26.77	75538 Y	: 86.553647				
6	Cost:- a) Estimate	ed:						
Office:	2000000	User: 2634	14.21	Others:	Total:	2263414.21		
	b) Actual Exp	enditure:						
Office:	1899744	User: 2338	77.79	Others:	Total:	2133621.79		
7	Objectives:	• To control the river	bank cutting an	d stabilize the flow of	river.			
	,	• To protect the agric	cultural land and	human settlement wi	thin the area.			
	Conservation		• • • • .					
8	Measure /	• Gabion launching i	s provided to pr	event scouring and pr	otect the structure	•		
• Gabion toe wall is provided to prevent overflow and river bank cutting.								
	applied:	** 1						
9	Implementation	User group approach. According to the agreement, the concerned user group purchased the						
	process:	gabion boxes and sto	one and complet	ed the work by using	local manpower a	vailable.		
10	Gender/social	From the selection of	t the activity to	mplementation of the	e work, women we	ere equally		
	consideration:	involved in the proce	288.	C 1 1 1	1 1 11			
11	Effect/impact:	The risk of river bar	ik cutting and d	image of agricultural	land and settlemen	nt is reduced.		
12	Benefited HH	Total: 33	Dalit: 7	Janjati: 15	Madhes1: 0	Other: 11		
13	Employment			510 Md.				
	Generated:		1 10 11			1		
14	Problem faced:	Shortage of skilled la	abor and Covid	19 lockdown caused t	he delay in the con	mpletion of the		
		project.	1 • .	1	. 1 1 1 1			
15	Maintenance /	Structures require re	gular maintenan	ce and repairs if they	get damaged. How	vever,		
	Sustainability: maintenance fund is not allocated for the project but will do when required.							
16	Lesson learned:	Big budgeted progra	ms should be co	nducted through tend	er process as the l	ocal community		
		Light Crown Names	Inpower.	Nodi Nimentana Comit	.:			
		Oser Group Name:	Kurran Knola	madi miyantran Sami	LI			
17	Other:	Chair Person:	Fode Bahadur					
		Site In charge:	Anil Kumar C	naudhary				
1		Unit Officer:	Bhim Bahadu	Kalikote				





1.	Name of Activity: Construction of Embankment, Gabion Box Revetment and Lunching Apron							
2.	Name of Program: Ratuwa River Control							
3.	Location: Damak Munic	ipality	Ward: 02	Place: East	of Falgun	anda Bus Park	F/Y: 2076	/77
4.	Name of River System: I	Ratuwa River S	ystem					
5.	GPS Coordinate: X: 26.6	59285 Y: 8	7.70785					
6.	Cost:- a) Estimated:							
Office	e: 8030000	User:		Othe	ers:	Total: 8030000		
	b) Actual Expenditu	ure:						
Office	e: 2972079.58	User:		Othe	ers:	Total: 2972079.5	58	
7.	Objectives:	To protect	t River Bank	and adjacer	nt infrastru	ictures and agricu	ltural land.	
		To conser	rve and prote	ct the settler	nent.			
8.	Conservation Measure /	Launchin	g, Toe-wall,	Revetment v	were const	tructed on the eart	hen embank	ment on the
	Technique applied:	side river						
9.	Implementation process:	Procurement p	rocess. E-bic	lding was ca	urried out a	and the bidder wit	h lowest bio	l amount
		was selected.						
10.	Gender/social	From the selec	tion of the a	ctivity to im	plementati	ion of the work, w	omen were	equally
	consideration:	involved in each	ch step of the	e process.				
11.	Effect/impact:	River Bar	nk erosion is	minimized a	and provid	led safe the adjace	ent househol	ld.
		Minimize	d the flood d	isaster risk.				
12	Benefited HH	Total: 3000	Dalit:	Janj	ati:	Madhesi:	Othe	ers:
13	Employment Generated:		·	-	1540 m	d	·	
14	Problem faced:	• Covid 19	Lockdown a	nd delay in	procureme	ent process caused	l problem in	timely
		completio	on.					
15	Maintenance /	No maintenan	ce fund is all	ocated there	but will d	lo when required.	Lower area	also needs
	Sustainability:	protection.						
16	Lesson learned:	The implemen	tation proces	s must be id	entified ea	arly. Procurement	related train	nings and
		skills must be	needed to all	staffs.				
17	Other:	User Group N	ame: Shanti I	Dev Nirmaa	n sewa Pv	t. Ltd., Simikot, H	Iumla	
		Site Incharge:	Dinesh Patha	ak				
		Unit Officer: I	3him Bahadu	r Kalikote				





1.	Name of Activity: Planta	Name of Activity: Plantation and Fencing							
2.	Name of Program: Hot-spot Fencing And Plantation.								
3.	Location: Letang Na.Pa.	ation: Letang Na.Pa. Ward: 1 Place: Mahabharat CFUG F/Y: 2076/77							
4.	Name of River System :								
5.	GPS Coordinate: E 87 <sup>0</sup> 3	0'39.66''	N 26 <sup>0</sup> 46'22.2	29''					
6.	Cost:- a) Estimated:								
Office	e: 672431	User: 439200		Others:	Total: 1111632	2 (Including Contingency)			
	b) Actual Expenditu	ure:							
Office	e: 654160	User: 439200		Others:	Total: 1093360				
7.	Objectives:	To recove	er the degrad	ed forest Land.					
		To conser	rve the biodiv	versity in the forest.					
8.	Conservation Measure /	• Barbed w	vire fencing a	ndPlantation.					
	Technique applied:								
9.	Implementation process:	User group ap	proach. Acco	ording to the agreem	ent, the concerned u	iser group purchased the			
		Posts, barbed	wire and com	pleted the plantatio	n work by using loc	al manpower available.			
10.	Gender/social	From the selec	ction of the ad	ctivity to implement	tation of the work, w	vomen were equally			
	consideration:	involved in ea	ch step of the	e process.					
11.	Effect/impact:	Control t	he Free Grazz	zing due to fencing.					
		Conserva	tion of Bio c	liversity in side the	CFUG				
12	Benefited HH	Total:	Dalit:	Janjati:	Madhesi:	Others:			
13	Employment Generated:	550 md							
14	Problem faced:	• Lack of N	Materials and	Skill worker work	became difficult.				
15	Maintenance /	No maintainar	nce fund is th	ere but user groups	will carry out the re	pairment and			
	Sustainability:	maintenance v	vork as and w	hen required.					
16	Lesson learned:	If user group a	are more invo	lved, the implement	tation will be easier	and would successfully			
		complete the work. Awareness creation, empowerment and mobilization of user group is							
		essential befor	essential before real implementation of the activity.						
17	Other:	User Group N	User Group Name: Mahabharat CFUG						
		Chair Person:	Yagya Kuma	ır Limbu					
		Site Incharge:	Niraj Prasad	Dahal					
		Unit Officer: I	Bhim Bahadu	r Kalikote					





1.	Name of Activity: Planta	ation and Fencin	ng					
2.	Name of Program: Hot-spot Fencing And Plantation.							
3.	Location: Miklajung Ga.l	Pa.	Ward: 2	Place: Chulachuli	CFUG	F/Y: 2076/77		
4.	Name of River System :			•				
5.	GPS Coordinate: E 87 <sup>0</sup> 3	8'58.80''	N 26 <sup>0</sup> 45'55.7	72''				
6.	Cost:- a) Estimated:							
Office	e: 2013469	User: 139336		Others:	Total: 2152805	(Including Contingency)		
	b) Actual Expenditu	ure:						
Office	e: 2011060	User: 139336		Others:	Total: 2150396			
7.	Objectives:	To recove	er the degrad	ed forest Land.				
		To conset	rve the biodiv	versity in the forest.				
8.	Conservation Measure /	Barbed w	vire fencing a	ndPlantation.				
	Technique applied:							
9.	Implementation process:	User group ap	proach. Acco	ording to the agreem	ent, the concerned	user group purchased the		
		Posts, barbed	wire and com	pleted the plantatio	n work by using loc	cal manpower available.		
10.	Gender/social	From the selec	ction of the ad	ctivity to implement	tation of the work, w	women were equally		
	consideration:	involved in ea	ch step of the	e process.				
11.	Effect/impact:	Control t	he Free Grazz	zing due to fencing.				
		Conserva	tion of Bio c	liversity in side the	CFUG			
12	Benefited HH	Total:	Dalit:	Janjati:	Madhesi:	Others:		
13	Employment Generated:	550 md						
14	Problem faced:	• Lack of M	Materials and	Skill worker work	became difficult.			
15	Maintenance /	No maintainar	nce fund is th	ere but user groups	will carry out the re	epairment and		
	Sustainability:	maintenance v	vork as and w	when required.				
16	Lesson learned:	If user group a	are more invo	lved, the implement	tation will be easier	and would successfully		
		complete the work. Awareness creation, empowerment and mobilization of user group is						
		essential befor	e real impler	nentation of the acti	ivity.			
17	Other:	User Group N	ame: Chulacl	huli CFUG				
		Chair Person:	Vanu Pokhre	el				
		Site Incharge:	Niraj Prasad	Dahal				
		Unit Officer: I	Bhim Bahadu	ır Kalikote				



1.	Name of Activity: PCC V	Work, Stone Masonr	y 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 : N	NA					
5.	GPS Coordinate: E 87 <sup>0</sup>	16'59.04'' N 2	6 <sup>0</sup> 49'54.04''				
6.	Cost:- a) Estimated:						
Office	e: 2000000	User: 288435.30		Others:	Total: 2288435.30(In	cluding Contingency)	
	b) Actual Expenditu	ire:					
Office	e: 1963480	User: 288435.30		Others:	Total: 2251915.30		
7.	Objectives:	<ul><li>To store the rain water recharge.</li><li>To improve irrig</li></ul>	n water by harv gation facility in	esting immediat n dry season.	e runoff and providin	g aid in ground	
8.	Conservation Measure / Technique applied:	• Stone masonry	y wall was buil	t around the pon	d.		
9.	Implementation process:	User group approad required materials,	ch. According t equipment and	o the agreement completed the v	, the concerned user g vork by using local m	group purchased the anpower available.	
10.	Gender/social	From the selection	of the activity	to implementation	on of the work, wome	n were equally	
	consideration:	involved in each ste	ep of the proces	SS.			
11.	Effect/impact:	Existing pond	was upgraded.				
		Water was sto	red in the pond	and moisture w	as maintained around	the area.	
12	Benefited HH	Total: 310	Dalit: 10	Janjati: 200	Madhesi:	Others: 100	
13	Employment Generated:			510 md			
14	Problem faced:	Lack of Mater	ials and Skill v	vorker work beca	ame difficult.		
15	Maintenance /	No maintenance fu	and is there bu	ut will carry ou	t the repairment and	maintenance work	
	Sustainability:	when required.					
16	Lesson learned:	If user group are m	ore involved, the	he implementation	on will be easier and	would successfully	
		complete the work.	Awareness cre	eation, empower	ment and mobilization	n of user group is	
		essential before rea	l implementati	on of the activity	·		
17	Other:	User Group Name:	Jal Punarbhara	an tatha Sanraksl	iyan Pokhari Nirmaai	n UC	
		Chairperson : Falgu	1 Chaudhary				
		Site Incharge: Anil	Chaudhary Robodur Kolik	oto			
		Onit Onicer: Bhim	Danauur Kallk	1016			





1.	Name of Activity: Gabio	on Box Breast w	all, revetment a	and Lunching			
2.	Name of Program: Degra	aded Land Reco	ver (Sardu Khol	la)			
3.	Location: Barahakshetra	Na.Pa.	Ward: 5 Pla	ace: Sardukhola	F/Y:	2076/77	
4.	Name of River System :						
5.	GPS Coordinate: E 87 <sup>0</sup> 10	6'13.37''	N 26 <sup>°</sup> 41'37.96''				
6.	Cost:- a) Estimated:						
Office	e: 2400000	User: 348638		Others:	Total: 2848638(Includin	ng Contingency)	
	b) Actual Expenditu	ure:					
Office	e: 2293468	User: 333162	.54	Others:	Total: 2626630.54		
7.	Objectives:	To protect	t River Bank and	d adjacent farm la	and and Forest Area		
		To conser	rve and protect th	he settlement.			
8.	Conservation Measure /	Launchin	g, Toe-wall, Rev	vetment were cons	tructed on the earthen en	mbankment on the	
	Technique applied:	side river					
		Bamboo j	plantation was de	one on the slope o	f the earthen embankme	ent.	
9.	Implementation process:	User group app	proach. Accordin	ng to the agreeme	nt, the concerned user gr	oup purchased the	
		gabion boxes,	stone and compl	leted the work by	using local manpower av	vailable.	
10.	Gender/social	From the selec	tion of the activities	ity to implementat	tion of the work, women	were equally	
	consideration:	involved in each	ch step of the pro	ocess.			
11.	Effect/impact:	River Bar	nk erosion is mir	nimized and provid	ded safe the adjacent how	usehold and forest.	
		• In total 1	200 house holds	are benifitted from	m the programme.		
		Minimize	d the flood disas	ster on farm land.			
12	Benefited HH	Total: 1901	Dalit: 51	Janjati: 350	Madhesi:	Others: 1500	
13	Employment Generated:	450 md					
14	Problem faced:	Boulder c	collection work b	became difficult it	were collected from dist	tant region .	
15	Maintenance /	No maintainan	ice fund is there	but user groups w	ill carry out the repairme	ent and	
	Sustainability:	maintenance w	vork as and when	n required.			
16	Lesson learned:	If user group a	re more involve	d, the implementa	tion will be easier and w	ould successfully	
		complete the v	vork. Awareness	creation, empowe	erment and mobilization	of user group is	
		essential before real implementation of the activity.					
17	Other:	User Group Na	ame: Sardu kho	la Kshatigrasta bh	umi Punaruthan U.G.		
		Chair Person:	padam Bahadur	shrestha			
		Site Incharge:	Niraj Prasad Da	hal			
		Unit Officer: F	3him Bahadur K	alikote			



1.	Name of Activity: Earthen embankment construction							
2.	Name of Program: Eroded Land Rehabilitation Program (Kamal Khola Niyentran)							
3.	Location: ChulachuliWard: 1Place: Kamal KholaF/Y: 2076/77							
4.	Name of River System:							
5.	GPS Coordinate: E 87.	472312	N 26.410923					
6.	Cost:- a) Estimated							
Office	e: 2500758 .00 (With 4% c	contingency)	User: 193923.	00	Others: 00	0.00 Total: 2	2694681.00	
	b) Actual Expendit	ure:			·	•		
Office	e: 218000.00		User: 16790.0	0	Others: 00	0.00 Total: 2	244425.00	
7.	Objectives:	River bank st	abilization and	conservation	n of settlement			
8.	Conservation Measure / Technique applied:	Earthen emba	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 sele involved in the	ection of the act he process.	ivity to impl	ementation of	the work, won	en were equally	
11.	Effect/impact:	Protection of	f river bank and	the village	side adjoining	the river bank.		
12	Benefited HH	Total: 280	Dalit:	15 Ja	njati: 200	Madhesi: 00	Other: 65	
13	Employment Generated:		·		272 Mds			
14	Problem faced:	Unavailabilit	y of constructio	n materials a	and labors on t	ime.		
15	Maintenance / Sustainability:	Structure req maintenance	uires the regular fund is not allo	r maintenand cated for the	ce and repairs is project.	f they get dam	aged. However,	
16	Lesson learned:	User group approach success only when the problems and programs outcomes directly benefits the user						
17	Other:	User Group M Chair Person Site Incharge Unit Officer:	Name : Kamal : Netra Lawati :: Dinesh Pathak Bhim Bahadur	Niyentran U Kalikote	Jpavokta Samr	nitee		



1.	Name of Activity: Park conservation	on and renovation						
2.	. Name of Program: Bhaludhunga Tourism Area Improvement and Promotion							
3.	Location: Illam Municipality	Ward: 6	Place: Ga	adi Thumka		F/Y: 2076/77		
4.	Name of River System: Outside Ri	ver System				·		
5.	5. GPS Coordinate: E 87 <sup>0</sup> 55'18.21'' N 26 <sup>0</sup> 55'30.76''							
6.	Cost:- a) Estimated							
Offi	ce: 1500000.00 (With 4% contingency)	User: 175027.00		Others: 0	0.00	Total: 1675027.00		
	b) Actual Expenditure:							
Offi	ce: 14380000.00	User: 175027.00		Others: 0	0.0	Total: 1654441.00		
7.	Objectives:	To protect, mainta	ain and renov	vate the park				
		To protect and pre	eserve the ae	sthetic appearar	ice of the pai	rk		
8.	Conservation Measure /	Boundry fencing	by mesh wire	e and construction	on of foot tra	nil		
	Technique applied:		- ,					
9.	Implementation process:	User group approx	ach. Accordi	ng to the agreer	nent, the con	cerned user group		
		purchased require	d construction	on materials and	completed t	he work by using		
		local manpower a	vailable.					
10.	Gender/social consideration:	From the selection	n of the activ	rity to implement	tation of the	work, women were		
		equally involved i	in the proces	s.				
11.	Effect/impact:	The park has been	n repaired, h	ence expected the	hat the eco-to	ourism will be		
10		increase in the fut	ure.	1 100				
12	Benefited HH	Total: 350 Da	alit: 50	Janjati: 100	Madhesi: 0	00 Other: 200		
13	Problem faced:	Unavailability of	construction	materials and la	bors on time			
14	Mointenenee / Sustainability	Structure required	the mean long	maintananaa an	tuors on thick	or ant domaged		
15	Maintenance / Sustainability:	Structure requires	the regular is	namienance and	repairs if the project	t but will do when		
		required.			n me projeci	t but will do wileli		
16	Lesson learned:							
17	Other:	User Group Name	e: Kamal N	liyentran Upavo	kta Sammite	e		
		Chair Person: Ha	ri Prasad Gu	rung				
		Site Incharge: Yo	uba Raj Pokl	harel				
		Unit Officer: Bhin	n Bahadur K	Lalikote				



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: M	ai Municipality-	7 Place: Ila	m F/	Y: 2076/077					
4.	GPS Coordinate : 23.76	330, 87.81728			·						
5.	Cost:- a) Estimated:										
Offic	e: Rs. 15,00,000.00	Use	r: 2,24,891.74	Others:	Total: 17,2	4,891.74					
	b) Actual Expendi	ture:									
Offic	e: Rs. 1270198	Use	r: 190376.47	Others:	Total: 146	0574.47					
	Objectives:	To Prevent damage to site									
7.		• To protect and preserve the aesthetic appearance of the site									
		Providing funct	tional support								
	Conservation Measure For the preservation of aesthetic appearance of the site, a compound wall along with a										
	/ Technique applied:	mmittee. Consider	ing the need of the								
0		users group, c	ompound wall	was designed	placing the rei	nforcement bars					
0.		horizontally and v	vertically in the	wall in a grid patter	n to improve the p	erformance of the					
		wall during its life span. Additionally, above this masonry wall grills were fixed as per									
		decoration and see	curity requireme	nt.							
	Implementation	By adopting user	group managen	nent approach, conc	cerned user group	where responsible					
9	process:	for implementation	on arrangement	s and solutions w	ere devised method	odically and with					
).		frequent appropria	ate consultation	with PIU, Salakpur							
10	Gender/social	During the impler	mentation of the	program, gender ba	alance was maintai	ned in all areas of					
10.	consideration:	decision-making,	and in access to	and control over re	sources and service	es.					
11	Effect/impact:	Construction of co	ompound wall h	as prevented trespa	sser and animals c	ausing problem to					
		the site.	1								
12	Benefited HH	Total: 236	Dalit: 12	Janjati: 205	Madhesi:	Other: 46					
13	Employment			600 Mds							
	Generated:				0 1 1 0	2					
14	Problem faced:	Despite many pu	iblic is still rel	atively unaware o	t this site, flow	of trespasser was					
		observed high and	also unnecessa	ry entrance of anim	als caused heavy g	razing of the site.					
15	Maintenance /	No maintenance	fund is there	but user groups	will carry out the	e repairment and					
	Sustainability:	maintenance work	as and when re	quired.	.1 . 1	. 1 1					
10	Lesson learned:	A multiple co-	ordination med	chanism involving	g the central g	overnment, local					
16		governments, soo	cial organizatio	ns and the privat	te sector will be	helpful for the					
Conservation of environment in sensitive areas.											
	Other:	Chair Derson Mr	Dou Dobo dur I	imbu	varak Sanrakshal	i Saifiiti					
17		Site Incharge: Nil	. Deu Danadur L	mou							
		Unit Officer: Dhis	n Dobodur Volil	roto							
		Unit Officer: Bhit	n Danadur Kalik	lote							



1.	Name of Activity: PCC Work, Interlock Cement block laying									
2.	Name of Program: Eco-t	ourism Promoti	ion							
3.	Location: Itahari Sub-Me	tropolitan City	Ward: 01	Place: S	Sub-Metropoli	tan City compound	F/Y: 2076/77			
4.	Name of River System : N	NA								
5.	GPS Coordinate: E87 <sup>0</sup> 16 <sup>3</sup>	'36.50'' N	V 26°39'46.1	1"						
6.	Cost:- a) Estimated:									
Office	e: 1500000	User: 0		(	Others:	Total: 1500000(Inclu	ding Contingency)			
	b) Actual Expenditure:									
Office	e: 1475108	User: 0		(	Others:	Total: 1475108				
7.	Objectives:	• To upgra	de the existir	ng Itahari	i Pokhari.					
-	~	• To beauti	To beautify the Sub-Metropolitan City compound and provide drinking water to birds.							
8.	Conservation Measure /	• Stone Ma	Stone Masonry wall was built around the pokhari compound.							
	Technique applied:	• Interlock	Interlock Cement block was layed on the bed of pond.							
9.	Implementation process:	Carried out the	arried out through procurement process as no user group was formed.							
10.	Gender/social									
	consideration:									
11.	Effect/impact:	Existing	pond was up	graded.						
		Water wa	is stored in th	ne pond.						
12	Benefited HH	Total: 33794	Dalit:		Janjati:	Madhesi:	Others:			
13	Employment Generated:				400 md					
14	Problem faced:	• Lack of N	Aaterials and	l Skill wo	orker work bec	came difficult.				
15	Maintenance /	No maintenan	ice fund is t	here but	will carry ou	it the repairment and	l maintenance work			
	Sustainability:	when required								
16	Lesson learned:	Quality was m	aintained as	the work	was carried o	out by construction co	mpany which was			
		lacked when d	lone by local	User cor	mmittee.					
17	Other:	User Group N	ame: Tabij N	Virmaan S	Sewa					
		Site Incharge:	Ila Yadav							
		Unit Officer: I	3him Bahadı	ır Kaliko	ote					



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1.	Name of Activity: Iron Post Fencing Outside the Pond									
2.	Name of Program: Eco-t	ourisn Promotion								
3.	Location: Urlabari Na.Pa	. W	/ard: 2 Pla	ace: Beteni CFUG	, Dumre Pokhari F/Y	: 2076/77				
4.	Name of River System :				·					
5.	GPS Coordinate: E 87 <sup>0</sup> 3	6'32.31'' N	26 <sup>°</sup> 44'55.03''	,						
6.	Cost:- a) Estimated:									
Offic	e: 1500000	User: 425586.56	5	Others:	Total: 1925586.56 (1	Including Contingency)				
	b) Actual Expenditure:									
Offic	e: 1480320	User: 425586.56	5	Others:	Total: 1905906.56					
7.	Objectives:	To protect the second sec	he Water Res	ource insidenThe F	Forest Ares.					
		To conserve	To conserve and protect the Biodiversity of CFUG.							
8.	Conservation Measure /	Iron Post Fe	encing out side	e the pond With St	one Masonry and PCC	 *•				
	Technique applied:		-	-	-					
9.	Implementation process:	User group appro	oach. Accordi	ng to the agreemer	nt, the concerned user g	group purchased the				
		Iron Posts, stone	ron Posts, stone and completed the work by using local manpower available.							
10.	Gender/social	From the selection of the activity to implementation of the work, women were equally								
	consideration:	involved in each	step of the pr	ocess.						
11.	Effect/impact:	Beatification	n of CFUG R	ecreation area.						
		Conservatio	n of water res	source and Bio dive	ersity inside the CFUG	í -				
12	Benefited HH	Total: 1475	Dalit: 210	Janjati: 325	Madhesi:	Others: 940				
13	Employment Generated:			450 ma	ł					
14	Problem faced:	Lack of Mat	terials and Sk	ill worker work be	came difficult.					
15	Maintenance /	No maintainance	fund is there	but user groups w	ill carry out the repairn	nent and				
	Sustainability:	maintenance wor	k as and whe	n required.						
16	Lesson learned:	If user group are	more involve	d, the implementat	tion will be easier and	would successfully				
		complete the wor	k. Awareness	s creation, empowe	erment and mobilization	n of user group is				
		essential before r	eal implemen	tation of the activi	ty.					
17	Other:	User Group Nam	e: Beteni CF	UG						
		Chair Person: Bh	im Rai							
		Site Incharge: Ni	raj Prasad Da	hal						
		Unit Officer: Bhi	im Bahadur K	Lalikote						



1.	Name of Activity: Picnic Shade House, Water boring, Concrete RCC Bench									
2.	Name of Program: Eco-t	ourisn Promotie	on							
3.	Location: Surunga Munic	cupality	Ward: 02	Place:	Bhediya CFU	G, Bhediya Park	F/Y: 2076/77			
4.	Name of River System : N	NA	<u>.</u>							
5.	GPS Coordinate: E 86°32	2'29.76''	N 26º45'32.4	16"						
6.	Cost:- a) Estimated:									
Office	e: 1500000	User: 0			Others:	Total: 150000(In	cluding Contingency)			
	b) Actual Expendit	ure:				-				
Office	e: 1418575.24	User: 0			Others:	Total: 1418575.24	ł			
7.	Objectives:	To upgra	de the existir	ng Bheo	liya Park.	-				
		To prome	To promote ecotourism and increase income of Community Forest.							
8.	Conservation Measure /	Shade hore	use was cons	structed	for carrying o	ut picnic and related	l programs.			
	Technique applied:	Water bo	Water boring was done to solve the problem of water.							
9.	Implementation process:	Carried out the	arried out through procurement process as no user group was formed.							
10.	Gender/social	CFUG is form	ied as per ger	nder rel	ated norms and	the benefit sharing	; will be equal to both			
	consideration:	gender.								
11.	Effect/impact:	Park has	been upgrade	ed for p	icnic propose t	too and it will help i	n income generation.			
		Problem	of water scar	city we	is solved.					
12	Benefited HH	Total:	Dalit:		Janjati:	Madhesi:	Others:			
13	Employment Generated:				400 m	d				
14	Problem faced:	• Lack of N	Materials and	l Skill v	vorker work be	came difficult.				
15	Maintenance /	No maintenan	nce fund is t	there bu	ut will carry c	out the repairment a	and maintenance work			
	Sustainability:	when required	l.							
16	Lesson learned:	Quality and tir	me was main	tained a	as the work wa	s carried out by con-	struction company			
		which was lac	ked when do	one by l	ocal User com	mittee.				
17	Other:	User Group N	ame: Jaya K	rishna (	Construction C	ompany Ltd., Devip	our-3, Siraha			
		Site Incharge:	Anil Kumar	Chaud	hary					
		Unit Officer: J	Bhim Bahadı	ur Kalik	tote					





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1.	Name of Activity: Ecotourism Promotion and Water Recharge										
2.	Name of Program: Ecoto	ourism Promot	ion								
3.	Location: Urlabari		Ward: 3	Ward: 3Place: UrlabariF/Y: 20				'Y: 2076/77			
4.	Name of River System:	NA									
5.	GPS Coordinate: E 87.6	00468 N 26.	661510								
6.	Cost:- a)Estimated:										
Offic	e: 15,00,000 ( Including C	ontingency)	User: 10622	26	Othe	rs:	Total: 16	6226			
b) Actual Expenditure:											
Offic	e: 1400000	r	User: 10622	26	Othe	rs:	Total: 166	5226			
7.	Objectives:	• Grou	and water recl	harge							
		And	ecotourism p	romotion							
8.	Conservation Measure	• Recharge canal was constructed to hold water as well as to percolate it down into									
	/ Technique applied:	the g	the ground water system.								
9.	Implementation	User group a	pproach. Acc	cording to	the agreem	ent, the cor	ncerned user	group purchased			
10	process:	the materials	completed th	ne work b	y using loca	l manpowe	er available.	- 11			
10.	Gender/social	From the selection of the activity to implementation of the work, women were equally									
11	consideration:	involved in the process.									
11.	Effect/impact:	The pond ha	s served a nul	mber of o	her purpose	es like maii	itaining soil i	moisture for the			
		growth of sh	allow rooted	vegetatio	i, ennancing	g natural ra	tes of ground	water recharge and			
12	Banafitad HH	Total: 430	Dalit	30	Indwater So	Jurces.	dhasi	Other: 300			
12	Employment	75	Daint.	30	Jalijati.100	IVIC	iullesi.	Other.300			
15	Generated <sup>.</sup>	15									
14	Problem faced:	Delay in gett	ing the mater	ial on tim	e and rainv	season cau	use delay in th	ne completion of			
	11001011110000	the project.			• •••••						
15	Maintenance /	Structure rec	uires the regu	ılar maint	enance and	repairs if t	hey get dama	ged. However,			
	Sustainability:	maintenance	fund is not al	llocated f	or the project	et but will o	do when requ	ired.			
16	Lesson learned:	If user group	are more inv	olved, the	e implement	ation will l	be easier and	would			
		successfully	complete the	work. Av	vareness cre	ation, emp	owerment an	d mobilization of			
		user group is	essential bef	ore real in	nplementati	ion of the a	ctivity				
17	Other:	User Group	Name: <b>Mada</b>	n Bhanda	ari Smitri I	Pratisthan	Nepal,U.G.				
		Chair Person	: Megh Raj S	Sipali							
		Site Incharge	e: Ila Yadav	** ···							
		Unit Officer:	Bhim Bahad	lur Kaliko	te						





Name of Activity: Recharge Pond Maintenance and Enhancement										
Name of Program: Groun	ogram: Ground Water Recharge and Eco-Tourism Development (Babatal, Siraha)									
Location: Karjanha	Ward: 2	Place: Babata	l, Bandipur, Sira	ha	F/Y: 2076/77					
Municipality										
Name of River System: (	Dutside River Sy	ystem								
GPS Coordinate: E 86+ <sup>0</sup>	09Ů 52Æ	N 26+ $^{\circ}$ 53U	√ 49Æ							
Cost:- a) Estimated										
ce: 3000000.00 (With	User: 383630.	00	Others: 00.00		Total: 3383630.00					
4% contingency)										
b) Actual Expenditure:										
ce:2801429.00	0.00 User: 381810.00 Others: 00.0 Total: 3265740.00									
Objectives:	To protect, ma	To protect, maintain and renovate the recharge pond								
Conservation Measure /	Excavation, PO	CC and RCC w	ork for foundation	on and boundry wal	l construction					
Technique applied:										
Implementation	User group ap	proach. Accord	ing to the agreer	nent, the concerned	user group purchased					
process:	required construction materials and completed the work by using local manpower									
	available.		• • •		11					
Gender/social	From the selec	tion of the activ	vity to implement	itation of the work,	women were equally					
consideration:	involved in the	e process.								
Effect/impact:	The park has b	een repaired, a	nd enlarged, hen	ce expected that the	e eco-tourism will be					
	increase in the	future.	o.		0.1 075					
Benefited HH	Total: 450	Dalit: 50	Janjati: 85	Madhes1: 40	Other: 275					
Employment	1127 Mds									
Broblem faced:	Unavailability	of construction	materials and l	abors on time						
Mointenance /	Structure requi	or construction		d nonoine if they get	dama and Howavan					
Sustainability:	maintenance fr	and is not allow	ated for the proj	ect but will do by lo	cals when required					
Lesson learned	mannenance n		ated for the proje	cet but will do by io	cais when required.					
Other:	User Group N	ame · Babatal ?	Sudhridikaran N	irmanUnavokta San	nmitee					
	Chair Person:	Manoi Kumar	Magar	initiano pu toktu bul						
	Site Incharge:	Anil Kumar Ch	naudhary							
	Unit Officer: I	Bhim Bahadur I	Kalikote							
	Name of Activity: Recha Name of Program: Groun Location: Karjanha Municipality Name of River System: C GPS Coordinate: E 86+ <sup>0</sup> Cost:- a) Estimated ce: 3000000.00 (With contingency) b) Actual Expendit ce:2801429.00 Objectives: Conservation Measure / Technique applied: Implementation process: Gender/social consideration: Effect/impact: Benefited HH Employment Generated: Problem faced: Maintenance / Sustainability: Lesson learned: Other:	Name of Activity:Recharge Pond MaintName of Program:Ground Water RechardLocation:KarjanhaWard: 2MunicipalityName of River System:Outside River System:GPS Coordinate:E 86+° 09Ú 52ÆCost:- a)Estimatedce:3000000.00 (With ontingency)User:b)Actual Expenditure:ce:2801429.00User:Objectives:To protect, maConservation Measure / Technique applied:Excavation, PGImplementation process:User group ap required constr available.Gender/social consideration:From the select increase in the increase in the selection:Benefited HHTotal: 450Employment Generated:1127 MdsProblem faced:UnavailabilityMaintenance / Sustainability:Structure required maintenance fi Lesson learned:Other:User Group Na Chair Person: Site Incharge: Unit Officer: Fi	Name of Activity:Recharge Pond Maintenance and EnfName of Program:Ground Water Recharge and Eco-ToLocation:KarjanhaWard: 2Place: BabataMunicipalityName of River System:Outside River SystemGPS Coordinate:E 86+ <sup>0</sup> 09Ú 52ÆN 26+ <sup>0</sup> 53ÚCost:- a) EstimatedSec: 3000000.00 (WithUser: 383630.00contingency)b) Actual Expenditure:ce: 2801429.00User: 381810.00Objectives:To protect, maintain and renoConservation Measure /Excavation, PCC and RCC wrechnique applied:ImplementationImplementationUser group approach. Accordprocess:required construction materialavailable.From the selection of the activityGender/socialFrom the selection of the activityconsideration:involved in the process.Effect/impact:The park has been repaired, aincrease in the future.EmploymentBenefited HHTotal: 450Dalit: 50EmploymentEmploymentStructure requires the regularSustainability:maintenance fund is not alloc:Lesson learned:User Group Name : Babatal SOther:User Group Name : Babatal SChair Person:Manoj KumarSite Incharge: Anil Kumar CHUnit Officer: Bhim Bahadur H	Name of Activity:Recharge Pond Maintenance and EnhancementName of Program:Ground Water Recharge and Eco-Tourism DevelopLocation:KarjanhaWard: 2Place: Babatal, Bandipur, SiraMunicipalityWard: 2Place: Babatal, Bandipur, SiraMunicipalityOutside River SystemGPS Coordinate: E 86+° 09Ú 52ÆN 26+° 53Ú 49ÆCost:- a) EstimatedCost:- a) EstimatedOthers: 00.00ce:300000.00 (WithUser: 383630.00Others: 00.00b) Actual Expenditure:DevelopOthers: 00.00ce:2801429.00User: 381810.00Others: 00.00Objectives:To protect, maintain and renovate the rechargConservation Measure /Excavation, PCC and RCC work for foundationTechnique applied:User group approach. According to the agreer required construction materials and completed available.Gender/social consideration:From the selection of the activity to implement increase in the future.Benefited HHTotal: 450Dalit: 50Benefited HHTotal: 450Dalit: 50Inajati: 85Employment maintenance /Maintenance /Structure requires the regular maintenance and maintenance fund is not allocated for the projuce Lesson learned:Other:User Group Name : Babatal Sudhridikaran N Chair Person: Manoj Kumar Magar Site Incharge: Anil Kumar Chaudhary Unit Officer: Bhim Bahadur Kalikote	Name of Activity:       Recharge Pond Maintenance and Enhancement         Name of Program:       Ground Water Recharge and Eco-Tourism Development (Babatal, Sira         Location:       Karjanha       Ward: 2       Place: Babatal, Bandipur, Siraha         Municipality       Name of River System:       Outside River System       GPS Coordinate: E 86+° 09Ú 52Æ       N 26+° 53Ú 49Æ         Cost:- a) Estimated       Sirauted       Others: 00.0       Others: 00.0         cost:- a) Estimated       User: 381810.00       Others: 00.0         b) Actual Expenditure:       User: 381810.00       Others: 00.0         conservation Measure /       Excavation, PCC and RCC work for foundation and boundry wal         Technique applied:       Implementation       User group approach. According to the agreement, the concerned required construction materials and completed the work by using available.         Gender/social       From the selection of the activity to implementation of the work, consideration:       involved in the process.         Effect/impact:       The park has been repaired, and enlarged, hence expected that the increase in the future.         Benefited HH       Total: 450       Dalit: 50       Janjati: 85       Madhesi: 40         Employment       1127 Mds       Genearted:       Problem faced:       Unavailability of construction materials and labors on time.         Maintenance /					





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# **KHANDO RIVER SYSTEM**

1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity	: Gabion Work, Bar	nboo Plantation							
3	Location: Sambh	uNath Municipality	Wa	rd: 02	Place: Kana	kpatti	F/Y: 2076/077			
4	Name of River Sy	ystem: Khando River Sy	ystem							
5	GPS Coordinate:	X: 26	.65708 Y:	86.70	246					
6	Cost:- a) Estimate	ed:								
Office:	2000000	User: 15	3540.31	Other	s:	Tota	l: 2153540.31			
	b) Actual Expe	enditure:								
Office:	1973760	User: 15	3540.31	Other	s:	Tota	l: 2127300.31			
7	Objectives:	<ul><li>To improve gully cat</li><li>To control the existing</li></ul>	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> <li>Gabion Check dam a</li> <li>Bamboo plantation v</li> </ul>	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 t involved in the proces	the activity to imps.	olementa	ation of the wo	rk, women we	re equally			
11	Effect/impact:	To some extent, the g point is solved.	ully/ landslide is	controll	ed and the prob	olem of road b	lockade at the			
12	Benefited HH	Total: 50	Dalit: 10	Janjat	i: 25	Madhesi: 0	Other: 15			
13	Employment Generated:			450	Md.	·				
14	Problem faced:	Shortage of skilled lab	or was one of the	factors	causing delay	in the complet	tion of the project.			
15	Maintenance /	Structures require regu	ılar maintenance	and repa	irs if they get	damaged. How	vever,			
15	Sustainability:	maintenance fund is n	ot allocated for th	e projec	t but will do w	hen 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.								
		User Group Name:	Galchhi Pahiro	tatha Kh	ahare Rokthaa	am Nirmaan U	C			
17	Othern	Chair Person:	Habibul Husen							
1/	Other:	Site Incharge:	Anil Kumar Ch	audhary						
		Unit Officer:	Bhim Bahadur	Kalikote						





1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity:         Gabion Work, Bamboo Plantation									
3	Location: Agnisa	eer K.S. Municipality Ward: 04 Place: Belha F/Y: 2076/077								
4	Name of River Sy	ystem: Khando River S	System							
5	GPS Coordinate:	X:	26.64564	Y: 86.77858						
6	Cost:- a) Estimate	ed:								
Office:	2000000	User:	283145.73	Others:		Total:	2283145.73			
	b) Actual Expe	enditure:								
Office:	1973760	User:	283145.73	Others:		Total:	2256905.73			
7	Objectives:	<ul><li>To improve gully ca</li><li>To control the exist</li></ul>	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> <li>onservation</li> <li>easure /</li> <li>Gabion Check dam and wall is constructed along the gullies and landslide.</li> <li>Bamboo plantation was done to control debris flow and check the surface erosion.</li> </ul>								
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 involved in the proce	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 point is solved.	gully/ landslide	is controlled ar	nd the problem of 1	road bloc	kade at the			
12	Benefited HH	Total: 40	Dalit: 6	Janjati: 6	Madhe	esi: 0	Other: 28			
13	Employment Generated:			485 Md.						
14	Problem faced:	Shortage of skilled la	bor was one of	the factors caus	sing delay in the co	ompletior	n of the project.			
15	Maintenance / Sustainability:	Budget was very low allocated and other su existing structure sus	as compared to upporting struct tainable.	severity of lan ures are need to	dslide. More budg be made to contro	et is need ol landsli	led to be de and make			
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.								
		User Group Name:	Amsot KholaN	liyantran Jal U	C					
		Chair Person:	UpendraYadav	7						
17	Other:	Site In charge:	Anil Kumar C	haudhary						
		Unit Officer:	Bhim Bahadur	Kalikote						





1	Name of Program: Gully, Landslide and Torrent Control										
2	Name of Activity	r: Ga	bion Wo	rk, Barr	boo Planta	tion					
3	Location:Agnisaa	aeer K.S.	Muncip	ality		V	Vard: 02	Place: C	Chaufaal		F/Y: 2076/077
4	Name of River S	ystem: K	hando R	liver Sys	stem						
5	GPS Coordinate:		X:	26.630	523	Y:	86.75873				
6	Cost:- a) Estimate	ed:									
Office:	2000000		User:	28314	5.73		Others:		То	otal:	2283145.73
	b) Actual Expe	enditure:									
Office:	: 1105835.02 User: 163078.98 Others: Total: 1268914.0								1268914.0		
7	Objectives	• To im	prove g	ully cate	hments to	reduce	and regulate th	ne run off	rates.		
/	• To control the existing landslide through bio-engineering process.										
	Conservation	servation									
8	Measure /	Gabic	on Check	x dam ar	nd wall is co	onstru	cted along the g	gullies and	l landslic	le.	
0	Technique	• Bamb	Bamboo plantation was done to control debris flow and check the surface erosion.								
	applied:										
0	Implementation	User gr	oup app	roach. A	According to	o the a	greement, the c	concerned	user gro	oup p	ourchased the
9	process:	gabion	boxes, s	tone and	l bamboo a	nd cor	npleted the wor	rk by usin	g local n	nanp	ower available.
10	Gender/social	From the selection of the activity to implementation of the work, women were equally									
10	consideration:	involve	ed in the	process	•						
11	Effect/impact:	To sor	ne exten	t, the gu	lly/ landsli	de is c	ontrolled and st	tructures a	are saved	1.	
12	Benefited HH	Total: 7	74		Dalit: 24		Janjati: 44	М	adhesi: (	)	Other: 6
13	Employment						285 Md				
15	Generated:						205 110.				
14	Problem faced:	Shortag	ge of skil	lled labo	or was one	of the	factors causing	delay in t	the comp	oletic	on of the project.
15	Maintenance /	Structu	res requi	ire regul	ar mainten	ance a	nd repairs if the	ey get dan	naged. H	lowe	ever,
15	Sustainability:	mainter	nance fu	nd is no	t allocated	for the	project but wil	ll do wher	n require	d.	
16	Lesson learned.	Physica	al engine	ering st	ructure is c	rucial	for immediate	control wl	hile bio e	engir	neering provides
10	Lesson learned.	benefit	s in long	run.							
		User C	δroup Na	ame: 1	Nadi Galch	hi San	rakshyan UC				
17	Other	Chair F	Person:	]	Roshand De	ер Ки	mar Chaudhar	У			
1/	ouici.	Site In	charge:		Anil Kuma	Chau	dhary				
		Unit O	fficer:	]	Bhim Baha	dur Ka	likote				





1	Name of Program	of Program: Gully, Landslide and Torrent Control								
2	Name of Activity	r: Gab	ion Work	, Bamb	oo Plantation					
3	Location:Agnisaa	eer K.S.	Muncipa	lity	V	Vard: 02	Place: Chau	faal	F/Y: 2076/077	
4	Name of River S	ystem: K	hando Riv	ver Sys	tem					
5	GPS Coordinate:		X:	26.636	27 Y:	86.75772				
6	Cost:- a) Estimate	ed:								
Office:	2000000		User:	283145	5.73	Others:		Total:	2283145.73	
	b) Actual Expe	enditure:	•							
Office:	1973760		User:283	3145.73	3	Others:		Total:	2256905.73	
7	• To improve gully catchments to reduce and regulate the run off rates.									
/	• To control the existing landslide through bio-engineering process.									
	Conservation									
0	• Gabion Check dam and wall is constructed on base of landslide and other small gullies.							nall gullies.		
8	Technique	• Bamb	Bamboo plantation was done to control debris flow and check the surface erosion.							
	applied:									
0	Implementation	User gi	oup appro	oach. A	ccording to the a	greement, the	concerned use	r group j	ourchased the	
9	process:	gabion	boxes, sto	one and	bamboo and con	npleted the wo	rk by using lo	cal man	ower available.	
10	Gender/social	From the selection of the activity to implementation of the work, women were equally								
10	consideration:	involve	ed in the p	rocess.						
11	Effect/impact:	To sor	ne extent,	the gul	lly/ landslide is c	ontrolled and d	ebris flow has	been re	duced.	
12	Benefited HH	Total: 2	26		Dalit: 8	Janjati: 15	Madhe	esi: 0	Other: 3	
12	Employment					420 Md				
15	Generated:					420 Md.				
14	Problem faced:	Covid	19 and loc	kdown	caused delay in	timely paymen	t of the work.			
15	Maintenance /	Structu	res requir	e regula	ar maintenance a	nd repairs if the	ey get damage	ed. Howe	ever,	
15	Sustainability:	mainte	nance fun	d is not	allocated for the	e project but wi	ll do when req	juired.		
16	Lasson loomad	Physica	al enginee	ring str	ucture is crucial	for immediate	control while	bio engi	neering provides	
10	Lesson learned:	benefit	s in long r	un.				-		
		User C	Broup Nar	ne: E	Banra Nadi Galch	lhi UC				
17	Othern	Chair F	Person:	Г	ara Kant Chaud	nary				
1/	Other:	Site In	charge:	A	nil Kumar Chau	dhary				
		Unit O	fficer:	E	Bhim Bahadur Ka	likote				



1	Name of Program: Gully, Landslide and Torrent Control										
2	Name of Activity: Gabion Work, Bamboo Plantation										
3	Location:Agnisaa	eer K.S. Muncipality	Ward: 02	Place: Chaufaal		F/Y: 2076/077					
4	Name of River S	ystem: Khando River S	System								
5	GPS Coordinate:	X: 26.6	53920 Y:	86.75826							
6	Cost:- a) Estimate	ed:									
Office:	200000	User: 2402	264.36	Others:	Total	:2240264.36					
	b) Actual Expe	enditure:									
Office:	1973760	User: 240264	4.36	Others:	Total	: 2214024.36					
7	Objectives:	<ul> <li>To improve gully catchments to reduce and regulate the run off rates.</li> <li>To control the existing landslide through bio-engineering process.</li> </ul>									
8	Conservation Measure / Technique applied:• 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:	tation 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 involved in the proce	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 years.	e gully/ landslide is	controlled and bec	ome stable comp	pared to previous					
12	Benefited HH	Total: 26	Dalit: 9	Janjati: 15	Madhesi: 0	Other: 2					
13	Employment Generated:			420 Md.							
14	Problem faced:	Covid 19 and lockdo	wn caused delay in	timely payment of t	he work.						
15	Maintenance / Sustainability:	Structures require reg maintenance fund is	gular maintenance a not allocated for the	nd repairs if they ge project but will do	t damaged. How when required.	ever,					
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 Galch	hi Sanrakshyan UC							
		Chair Person:	Hira Nanda Prasa	d Singh							
		Site In charge:	Anil Kumar Chau	dhary							
		Unit Officer:	Bhim Bahadur Ka	likote							





1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity	: Gabion Wall and	Bamboo Plantatio	1						
3	Location:Agnisaa	eer K.S. Muncipality	Ward: 02	Place: Chaufaal		F/Y: 2076/077				
4	Name of River S	ystem: Khando River S	ystem							
5	GPS Coordinate:	X: 2	6.64564 Y:	86.77858						
6	Cost:- a) Estimate	ed:								
Office:	2000000	User: 2	83145.73	Others:	Total:2	283145.73				
	b) Actual Expe	enditure:								
Office:	1518026	User: 223865	.92	Others:	Total:	1741891.92				
7	Objectives:	• To improve gully ca • To control the exist	atchments to reduc	e and regulate the rungh bio-engineering r	n off rates.					
	Conservation	Conservation								
	• Gabion Check dam and wall is constructed on the gully.									
8	Technique	Bamboo plantation	Bamboo plantation was done to control debris flow and check the surface erosion.							
applied:										
0	Implementation	User group approach	. According to the	e agreement, the cor	ncerned user gro	up purchased the				
9	process:	gabion boxes, stone a	nd bamboo and co	mpleted the work by	using local man	power available.				
10	Gender/social	From the selection of the activity to implementation of the work, women were equally								
10	consideration:	involved in the proce	ss.							
11	Effect/impact:	To some extent, the	gully/ landslide is a	controlled.						
12	Benefited HH	Total: 57	Dalit: 2	Janjati: 52	Madhesi: 0	Other: 3				
12	Employment			340 Md						
15	Generated:			540 Mu.						
14	Problem faced:	Shortage of skilled la	bor was one of the	factors causing dela	y in the completi	on of the project.				
15	Maintenance /	Structures require i	egular maintenar	nce and repairs if	they get dam	naged. However,				
15	Sustainability:	maintenance fund is r	not allocated for th	e project but will do	when required.					
16	Lesson learned	Physical engineering	structure is crucial	for immediate contra	ol while bio eng	ineering provides				
10	Lesson learned.	benefits in long run.								
		User Group Name:	Behaai Galchhi F	Pahiro Niyantran UC						
17	Other	Chair Person:	KhadgaBahadur	Tamang						
1/	Ould.	Site In charge:	Anil Kumar Cha	ıdhary						
		Unit Officer:	Bhim Bahadur K	alikote						





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: 2155	598.03	Others:	Total:2	215598.03			
	b) Actual Expenditure:								
Office:	1973760	User: 215598	3.03	Others:	Total: 2	2189935.03			
7	Objectives:	<ul><li>To improve gully ca</li><li>To control the existing</li></ul>	tchments to reduce ng landslide throug	and regulate the run h bio-engineering pi	off rates.				
8	Conservation Measure / Technique applied:	Conservation Measure / Technique applied: •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 involved in the process	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 point is solved.	gully/ landslide is	controlled and the	problem of road	blockade at the			
12	Benefited HH	Total: 75	Dalit: 25	Janjati: 40	Madhesi: 0	Other: 10			
13	Employment Generated:			320 Md.					
14	Problem faced:	Shortage of skilled la	bor was one of the f	factors causing delay	in the completio	n of the project.			
15	Maintenance / Sustainability:	Structures require n maintenance fund is r	regular maintenand not allocated for the	ce and repairs if project but will do v	they get dama when required.	ged. However,			
16	Lesson learned:	Physical engineering benefits in long run.	structure is crucial	for immediate contro	ol while bio engin	eering provides			
		User Group Name:	Damara Pahiro Sa	nrakshyan UC					
17	Othern	Chair Person:	Deek Bahadur Mo	oktan					
1/	Otner:	Site In charge:	Anil Kumar Chau	dhary					
		Unit Officer:	Bhim Bahadur Ka	likote					





1	Name of Program:	River Bank Stabilization								
2	Name of Activity:	vity: Revetment with Launching (Gabion Work) and Earthern dam								
3	Location: Agnisaaee	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: 982	2776.87	Others:	Total:	6982776.87				
	b) Actual Expenditure:									
Office:	5749604	User: 982	2776.87	Others:	Total:	6732380.87				
7	Objectives	• To control the river	bank cutting and	stabilize the flow of	of river.					
/	Objectives.	• To protect the agric	cultural land and	human settlement v	vithin the area.					
	Conservation	Gabion launching i	s provided to pre	vent scouring and p	protect the struct	ure.				
8	Measure /	Gabion revetment a	and earthen dam a	are provided to pre-	vent overflow an	d river bank				
	Technique applied:	cutting.	cutting.							
9	Implementation	User group approach	User group approach. According to the agreement, the concerned user group purchased							
	process:	the gabion boxes and	the gabion boxes and stone and completed the work by using local manpower available.							
10	Gender/social	From the selection of the activity to implementation of the work, women were equally								
10	consideration:	involved in the proce	involved in the process.							
11	Effect/impact:	The risk of river bar	nk cutting and da	mage of agricultura	l land and settler	nent is reduced.				
12	Benefited HH	Total: 240	Dalit: 160	Janjati: 20	Madhesi: 0	Other: 60				
13	Employment			1550 Md						
15	Generated:			1550 Mid.						
14	Problem faced	Shortage of skilled la	abor and Covid 1	9 lockdown caused	the delay in the	completion of				
	Troolein fueed.	the project.								
15	Maintenance /	Structures require re	gular maintenanc	e and repairs if the	y get damaged. H	Iowever,				
10	Sustainability:	maintenance fund is	not allocated for	the project but will	do when require	ed.				
16	Lesson learned	Big budgeted progra	ms should be con	ducted through ten	der process as th	e local				
	Lesson realinea.	community lacks the	required manpo	wer.						
		User Group Name:	Amsot Nadi Ni	yantran Upabhokta	Sanstha					
17	Other:	Chair Person:	Bechan Chaudh	ari						
11		Site In charge:	Anil Kumar Ch	audhary						
		Unit Officer:	Bhim Bahadur	Kalikote						

BEFORE







1	Name of Program: River Bank Stabilization									
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthern 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: 98277	6.87	Others:	To	otal: 6982776.87				
	b) Actual Expe	enditure:								
Office:	5921280	User: 98277	6.87	Others:	To	otal: 6904056.87				
7	Objectives:	• To control the river • To protect the agric	bank cutting an ultural land and	d stabilize the flow	of river. within the area.					
8	Conservation Measure / Technique applied:	Conservation Measure / Fechnique applied: • 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 involved in the proces	the activity to ss.	implementation of the	he work, wome	en were equally				
11	Effect/impact:	The risk of river ban	k cutting and d	amage of agricultura	al land and sett	lement is reduced.				
12	Benefited HH	Total: 50	Dalit:10	Janjati: 25	Madhesi: (	Other: 15				
13	Employment Generated:			1610 Md.	·					
14	Problem faced:	Shortage of skilled la project.	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the project.							
15	Maintenance / Sustainability:	Structures require reg maintenance fund is r	gular maintenan not allocated fo	ce and repairs if the r the project but will	y get damaged do when requ	However, ired.				
16	Lesson learned:	Big budgeted program lacks the required ma	ns should be co inpower.	onducted through ter	ider process as	the local community				
		User Group Name:	Dudhela Kho	la UC						
17		Chair Person:	Surya Narava	n Mahato						
17	Other:	Site In charge:	Anil Kumar (	Chaudhary						
		Unit Officer:	Bhim Bahadu	r Kalikote						



1	Name of Program: River Bank Stabilization									
2	Name of Activity: Revetment with Launching (Gabion Work) and Earthern dam									
3	Location: Rupani R. MunicipalityWard: 06Place: BirendraBajar, DudhailaToleF/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:	600000	User: 98277	6.87	Others:	Total	: 6982776.87				
	b) Actual Expe	nditure:								
Office:	5921280	User: 98277	6.87	Others:	Total	: 6904056.87				
7	Objectives	• To control the river	oank cutting an	d stabilize the flow of	river.					
/	Objectives.	• To protect the agric	ultural land and	human settlement wi	thin the area.					
	Conservation									
8	Measure /	Gabion launching is	provided to pr	event scouring and pr	otect the structu	re.				
Ũ	Technique • Gabion revetment and earthen dam is provided to prevent overflow and river bank									
	applied:									
9	Implementation	User group approach.	User group approach. According to the agreement, the concerned user group purchased the							
	process:	gabion boxes and stor	ne and complet	ed the work by using	local manpower	available.				
10	Gender/social	From the selection of	the activity to	implementation of the	work, women v	vere equally				
11	Consideration:	involved in the proces	SS.	C : 1, 1	1 1 1 41	. 1 1				
11	Effect/impact:	The risk of river ban	k cutting and da	Image of agricultural	land and settlem	ent is reduced.				
12	Benefited HH	Total: 50	Dalit:10	Janjati: 25	Madhesi: 0	Other: 15				
13	Employment			1610 Md.						
10	Generated:			1010 1.10						
14	Problem faced	Shortage of skilled la	bor and Covid	19 lockdown caused t	he delay in the c	completion of the				
14	T TODICIII Taecd.	project.	project.							
15	Maintenance /	Structures require reg	ular maintenan	ce and repairs if they	get damaged. H	owever,				
15	Sustainability:	maintenance fund is r	not allocated for	the project but will d	lo when required	1.				
16	Lesson learned	Big budgeted program	ns should be co	nducted through tend	er process as the	e local community				
10	Lesson rearried.	lacks the required ma	npower.							
		User Group Name:	Shree Dudhel	a Thakur UC						
17	Other	Chair Person:	Kumar Man S	hrestha						
1/	ould.	Site In charge:	Anil Kumar C	Chaudhary						
		Unit Officer:	Bhim Bahadu	r Kalikote						



1	Name of Program	n: River Bank Stab	ilization							
2	Name of Activity: Revetment, Revetment with Launching (Gabion Work) and Earthen Dam									
3	Location: Sambh	Sambhunath MunicipalityWard: 02Place: KanakpattiF/Y: 2076/077								
4	Name of River System: Khando River System									
5	GPS Coordinate:         X:         26.64755         Y:         86.70497									
6	Cost:- a) Estimate	ed:								
Office:	6000000	User: 978	189.12	Others:		Total:	6978189.12			
	b) Actual Expe	enditure:								
Office:	5916140	User: 978	189.12	Others:		Total:	6894329.12			
7	Objectives	• To control the rive	erbank cutting and	stabilize the	e flow of river.					
,	objectives.	<ul> <li>To protect the agri</li> </ul>	cultural land and h	uman settle	ement within the a	ea.				
	Conservation									
8	Measure /	Gabion launching	is provided to prev	ent scourin	ng and protect the s	tructure.				
Ŭ	Technique	• Gabion revetment and earthen dam is provided to prevent overflow and river bank cutting.								
	applied:									
9	Implementation	User group approach. According to the agreement, the concerned user group purchased the								
-	process:	gabion boxes and stone and completed the work by using local manpower available.								
10	Gender/social	From the selection of	From the selection of the activity to implementation of the work, women were equally							
	consideration:	involved in the proc	ess.				. • • •			
11	Effect/impact:	The risk of river ba	nk cutting and dan	hage of agri	cultural land and s	ettlemen	it is reduced.			
12	Benefited HH	Total: 145	Dalit: 35	Janjati: 45	5 Madhe	s1: 0	Other: 65			
13	Employment	1460 Md.								
	Generated:			1 1 1	1.1 1.1 1		1			
14	Problem faced:	Shortage of skilled labor and Covid 19 lockdown caused the delay in the completion of the								
		project.	1 .	1 '	·C.1 ( 1	1 11				
15	Maintenance /	Structures require re	egular maintenance	e and repair	s if they get damag	ged. How	vever,			
	Sustainability:	maintenance fund is	s not allocated for t	he project t	but will do when re	equired.				
16	Lesson learned:	Big budgeted progra	ams should be con	ducted through	ugh tender process	as the Ic	ocal community			
		Ligar Crown Normal	Khanda Khala	I. d. Nimme						
		Chair Dargary	Nanuo Knola I	vaui iviyant						
17	Other:	Chair Person:	Dev Kanta Char							
		Site in charge:	Anii Kumar Cha							
		Unit Officer:	Bhim Bahadur I	Salikote						



1	Name of Program:	Ground Water Rech	narge and its U	Utilization						
2	Name of Activity:         Pond excavation, Stone Masonry wall, RCC Dam Construction									
3	Location: Rupani R	: 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 Expend	liture:								
Office:	1480320	User:	194632.30	Others:	Total:	1674952.30				
7	Objectives:	<ul> <li>To store the rain water by harvesting immediate runoff and providing aid in ground water recharge.</li> <li>To improve irrigation facility in dry season.</li> </ul>								
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 t involved in the process	From the selection of the activity to implementation of the work, women were equally involved in the process.							
11	Effect/impact:	Moisture around the an wild animals was prove	rea has been i ided.	ncreased, irrigatio	n and drinking	water to domestic and				
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 regumaintenance fund is not	llar maintenar ot allocated fo	nce and repairs if t or the project but v	hey get damage vill do when req	d. However, uired.				
16	Lesson learned:	Complex RCC structur local community lacks	re constructio the required	n should be condu skilled manpower	cted through ter	nder process as the				
17	Other:	User Group Name: Chair Person: Site In charge: Unit Officer:	Shree Pancl Lal Bahadu Anil Kumar Bhim Baha	haawati Devi Pokh r Chaudhari · Chaudhary dur Kalikote	nariNirmaan UC					
1		one one one one		au munitore						

BEFORE





		~ ~ .						
1	Name of Program:	Ground Water Rechar	ge and its Utilizat	tion	_			
2	Name of Activity:	Pond excavation, Stor	ne Masonry wall,	RCC Dam Construc	tion			
3	Location:AgniSaaer k	K.S. Municipality	Ward: 2 Pl	ace: Sitapur, Chaufa	aal	F/Y: 2076/077		
4	Name of River System	n: Khando River Systen	n					
5	GPS Coordinate:	X:	26.63998	Y: 86.75566				
6	Cost:- a) Estimated:							
Office:	1500000	User:	194632.30	Others:	Total:	1694632.30		
			b) Actual Expen	diture:				
Office:	1480320	User:	194632.30	Others:	Total:	1674952.30		
		• To store the rain w	ater by harvestin	g immediate runoff	and providin	g aid in ground		
7	Objectives:	water	2	0		recharge.		
	5	• To improve irrigatio	n facility in dry se	eason.		C		
	Generation	Recharge pond was co	onstructed to hold	water as well as to	percolate it do	wn into the		
0	Conservation	ground water system.	At one end of the	e spectrum of the po	nd, was built	with heavy		
8	Measure /	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 be						onds.		
	Implementation	User group approach. According to the agreement, the concerned user group managed						
9		required materials and equipment as per estimate and completed the work by using local						
	process:	manpower available.						
10	Gender/social	From the selection of	the activity to imp	plementation of the	work, women	were equally		
10	consideration:	involved in the proces	s.					
11	Effort/import:	Moisture around the area has been increased, irrigation and drinking water to domestic						
11	Effect/impact.	and wild animals was	provided.					
12	Benefited HH	Total: 36	Dalit: 19	Janjati: 16	Madhesi: 0	Other: 1		
12	Employment			450 M.J				
15	Generated:			450 Md.				
14	Problem faced:	Shortage of equipment caused the delay in the completion of the project.						
15	Maintenance /	Structures require reg	ular maintenance	and repairs if they g	et damaged. H	łowever,		
15	Sustainability:	maintenance fund is n	ot allocated for th	e project but will do	when require	ed.		
16	Lasson loomad	Wetlands and conserv	ation ponds not o	nly helps in ground	water recharg	e and		
10	Lesson learned.	maintaining moisture,	it also plays a vit	al role in promoting	tourism.			
		User Group Name:	Bandevi Pokhar	i Nirmaan UC				
17	Other	Chair Person:	Ganga Prasad C	haudari				
1/	Ouler:	Site In charge:	Anil Kumar Cha	udhary				
		Unit Officer:	Bhim Bahadur k	Kalikote				





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	Location: AgniSaaer K.S. Municipality Ward: 02 Place: AgniSaaeerMandir 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:	194632.3	30	Others:	Total	: 1694632.30	
b) Actual Expenditure:									
Office:	1480320		User:	194632.3	30	Others:	Total	: 1674952.30	
7	Objectives:	• To s water • To i	store the recharge	rain water e. irrigation fa	by harvesti acility in dr	ng immediate runo y season.	ff and providi	ng aid in ground	
8	Conservation Measure / Technique applied:	Recha groun maso witho	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:	Moist and w	ture arou vild anim	and the area als was pro	a has been ovided.	increased, irrigatio	n and drinkin	g water to domestic	
12	Benefited HH	Total	: 69	Da	alit: 3	Janjati: 59	Madhesi: 0	Other: 4	
13	Employment Generated:					495 Md.			
14	Problem faced:	Short the pi	age of sk roject.	tilled labor	and Covid	19 lockdown cause	ed the delay in	n the completion of	
15	Maintenance / Sustainability:	Struc maint	tures req tenance f	uire regula und is not a	r maintenar allocated fo	nce and repairs if the project but w	ney get damag ill do when re	ed. However, equired.	
16	Lesson learned:	Comp local	olex RCC commun	C structure ity lacks th	constructione required	n should be conduc skilled manpower.	cted through t	ender process as the	
		User	Group N	ame:	Agnisaa	eer Pokhari Nirmaa	ın UC		
17	Other	Chair	Person:		Bhawani	Prasad Chaudhari			
1/		Site I	n charge	:	Anil Kur	nar Chaudhary			
		Unit	Officer:		Bhim Ba	hadur Kalikote			

BEFORE





1	Name of Program:	Ground Water Recharge and its Utilization						
2	Name of Activity:	Jame of Activity: Pond excavation						
3	Location: Sambhunat	h Mun	icipality	Wa	ard: 02	Place: Khandokhola	ı, 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:	• To s water • To i	store the i recharge mprove i	ain water rrigation	r by harve facility in	sting immediate rund dry season.	off and providin	ng aid in ground
8	Conservation Measure / Technique applied:	Recha groun masor witho	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 involv	the selec	tion of the process.	e activity	to implementation o	f the work, wor	men were equally
11	Effect/impact:	Moist and w	ure arou	nd the are als was p	ea has bee rovided.	en increased, irrigation	on and drinking	g water to domestic
12	Benefited HH	Total	: 280	D	Dalit: 15	Janjati: 125	Madhesi: 0	Other: 140
13	Employment Generated:					320 Md.		
14	Problem faced:	Short the pr	age of sk oject.	illed labo	r and Cov	id 19 lockdown caus	sed the delay in	the completion of
15	Maintenance / Sustainability:	Struct	tures requ enance fu	ire regula and is not	ar mainter allocated	nance and repairs if t for the project but v	hey get damage vill do when ree	ed. However, quired.
16	Lesson learned:	Comp local	olex RCC	structure	e construct the require	tion should be condu	icted through te	ender process as the
		User	Group Na	ame:	Pokha	ri Nirmaan UC		
17	Other	Chair	Person:		Asim	Kumar Rai		
1/		Site I	n charge:		Anil K	lumar Chaudhary		
		Unit	Officer:		Bhim	Bahadur Kalikote		






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

1.	Name of Activity: Const	ruction of Embank	ment, Gabion B	ox Revetment a	nd Lunching Apron				
2.	Name of Program: Gully	, Landslide Protecti	ion Program						
3.	Location: Triyuga Na.Pa	. Wa	rd: 1 Place:	Rupani, Baunr	a Khola F/Y:	2076/77			
4.	Name of River System: 7	Γriyuga-2(Kang, Ha	adiya, Siwai) Ri	ver System					
5.	GPS Coordinate: E 86 <sup>0</sup> 4'	7'40.40'' N 20	5 <sup>°</sup> 45'59.70''						
6.	Cost:- a) Estimated:								
Office	e: 3133479	User: 327737		Others:	Total: 3586557(Includin	ig Contingency)			
	b) Actual Expenditu	ure:							
Office	e: 3002788	User: 314067.76		Others:	Total: 3316855.76				
7.	Objectives:	To protect Ri	ver Bank and ac	ljacent farm land	d.				
		To conserve a	and protect the s	settlement.					
8.	Conservation Measure /	• Launching, T	oe-wall, Revetn	nent were constr	ructed on the earthen er	nbankment on the			
	Technique applied:	side river.							
		Grass turfing	was done on the	e slope of the ea	rthen embankment.				
9.	Implementation process:	User group approa	ch. According t	o the agreement	, the concerned user gr	oup purchased the			
		gabion boxes, ston	e and complete	d the work by us	sing local manpower av	vailable.			
10.	Gender/social	From the selection	of the activity	to implementation	on of the work, women	were equally			
	consideration:	involved in each st	tep of the proces	ss.					
11.	Effect/impact:	River Bank er	• River Bank erosion is minimized and provided safe the adjacent household.						
		• In total 150 h	nouse holds are	benifitted from	he programme.				
		Minimized th	e flood disaster	on farm land.					
12	Benefited HH	Total: 225	Dalit:	Janjati: 200	Madhesi:	Others: 25			
13	Employment Generated:	650 md							
14	Problem faced:	Boulder colle	ction work beca	ame difficult it v	vere collected from dist	ant region.			
15	Maintenance /	No maintainance f	und is there but	user groups wil	l carry out the repairme	ent and			
	Sustainability:	maintenance work	as and when re	quired.					
16	Lesson learned:	If user group are n	nore involved, the	he implementati	on will be easier and w	ould successfully			
		complete the work	. Awareness cre	eation, empower	ment and mobilization	of user group is			
		essential before rea	al implementati	on of the activity	у.				
17	Other:	User Group Name	: Baunna Khaha	are Galchi Niyar	itran U.G.				
		Chair Person: Am	bika Kumari Ch	oudhari					
		Site Incharge: Nira	aj Prasad Dahal						
		Unit Officer: Bhin	n Bahadur Kalik	tote					



1.	Name of Activity: Gabio	on Be	ox Breast wall	and Check Dan	n				
2.	Name of Program: Gully	7, Lai	ndslide Protect	tion Program					
3.	Location: Triyuga Na.Pa	ι.	W	ard: 1 Place	: Jogidaha, Dha	amiyain Bhawari F/Y:	: 2076/77		
4.	Name of River System:	Triyu	ıga-2(Kang, H	ladiya, Siwai) R	iver System				
5.	GPS Coordinate: E 86 <sup>0</sup> 4	6'41	.96" N 2	26°46'0.14''					
6.	Cost:- a) Estimated:								
Offic	e: 712675	Use	er: 113268		Others:	Total: 854451 (Includin	g Contingency)		
	b) Actual Expenditu	ure:				1			
Office	e: 677452	Use	er: 107669.88		Others:	Total: 785121.88			
7.	Objectives:	٠	To protect R	iver Bank and	adjacent farm la	und.			
		•	To conserve	and protect the	settlement.				
8.	Conservation Measure /	•	Launching, 7	Foe-wall, Revet	ment were cons	tructed on the earthen e	mbankment on the		
	Technique applied:		side river.						
		•	Grass turfing	g was done on th	ne slope of the e	earthen embankment.			
9.	Implementation process:	Use	er group appro	ach. According	to the agreemen	nt, the concerned user gr	coup purchased the		
		gab	ion boxes, sto	ne and complete	ed the work by	using local manpower a	vailable.		
10.	Gender/social	Fro	m the selection	n of the activity	to implementat	tion of the work, women	i were equally		
	consideration:	invo	olved in each s	step of the proce	ess.				
11.	Effect/impact:	•	• River Bank erosion is minimized and provided safe the adjacent household.						
		•	In total 120	house holds are	benifitted from	the programme.			
		•	Minimized t	he flood disaster	r on farm land.				
12	Benefited HH	Tot	al: 190	Dalit: 15	Janjati: 150	Madhesi:	Others: 25		
13	Employment Generated:	250	) md						
14	Problem faced:	٠	Boulder coll	ection work bec	ame difficult it	were collected from dis	tant region .		
15	Maintenance /	No	maintainance	fund is there bu	t user groups w	ill carry out the repairm	ent and		
	Sustainability:	mai	intenance worl	k as and when re	equired.				
16	Lesson learned:	If u	ser group are	more involved,	the implementa	tion will be easier and w	vould successfully		
		con	nplete the wor	k. Awareness cr	eation, empowe	erment and mobilization	of user group is		
		esse	ential before re	eal implementat	ion of the activi	ity.			
17	Other:	Use	er Group Name	e: Dhamiyain B	hawari Galchi N	Niyantran U.G.			
		Cha	air Person: An	ita Devi Choudh	nari				
		Site	Incharge: Ni	raj Prasad Daha	l				
		Uni	it Officer: Bhi	m Bahadur Kali	kote				
	1								



1.	Name of Activity: Const	ructi	on of Embankr	ment, Gabion B	Box Revetment a	and Lunching Apron			
2.	Name of Program: Gully	, Laı	ndslide Protecti	on Program					
3.	Location: Choudandigad	hi Na	a.Pa. Wa	rd: 9 Place:	: Aajgara Khola	, Ajgara F/Y:	2076/77		
4.	Name of River System:	Triyu	ga-2(Kang, Ha	diya, Siwai) Ri	iver System				
5.	GPS Coordinate: E 86 <sup>0</sup> 52	2'46.	48" N 26	5 <sup>0</sup> 48'38.14''					
6.	Cost:- a) Estimated:								
Office	e: 1923077	Use	r: 290131		Others:	Total: 2290132(Includin	ng Contingency)		
	b) Actual Expenditu	ure:							
Office	e: 1803112	Use	r: 272032.10		Others:	Total: 2075144.10			
7.	Objectives:	•	To protect Riv	ver Bank and a	idjacent farm lai	nd.			
		•	To conserve a	and protect the s	settlement.				
8.	Conservation Measure /	•	Launching, To	oe-wall, Revetr	nent were const	ructed on the earthen e	mbankment on the		
	Technique applied:		side river.						
		•	Grass turfing	was done on th	e slope of the ea	arthen embankment.			
9.	Implementation process:	Use	r group approa	ch. According t	to the agreement	t, the concerned user gi	oup purchased the		
		gab	ion boxes, ston	e and complete	d the work by u	sing local manpower a	vailable.		
10.	Gender/social	Fro	m the selection	of the activity	to implementati	on of the work, women	i were equally		
	consideration:	invo	olved in each st	ep of the proce	SS.				
11.	Effect/impact:	•	• River Bank erosion is minimized and provided safe the adjacent household.						
		•	In total 120 ho	ouse holds are b	benifitted from t	he programme.			
		•	Minimized the	e flood disaster	on farm land.				
12	Benefited HH	Tot	al: 40	Dalit: 7	Janjati: 10	Madhesi:	Others: 30		
13	Employment Generated:	350	md						
14	Problem faced:	•	Boulder collect	ction work beca	ame difficult it v	were collected from dis	tant region .		
15	Maintenance /	No	maintainance fu	und is there but	user groups wil	ll carry out the repairm	ent and		
	Sustainability:	mai	ntenance work	as and when re	quired.				
16	Lesson learned:	If u	ser group are m	nore involved, t	he implementati	on will be easier and w	vould successfully		
		con	plete the work.	. Awareness cro	eation, empower	rment and mobilization	of user group is		
		esse	ential before rea	al implementati	on of the activit	у.			
17	Other:	Use	r Group Name:	: Ajgara pairo N	Niyantran U.G.				
		Cha	ar Person: Krisl	hna Bahadur K	arkı				
		Site	Incharge: Nira	y Prasad Dahal					
		Uni	t Officer: Bhim	i Bahadur Kalik	kote				



1.	Name of Activity: Const	ruction of Embankment, Gabio	n Box Revetment	and Lunching Apron					
2.	Name of Program: Gully	, Landslide Protection Program	1						
3.	Location: Choudandigad	lhi Na.Pa. Ward: 5 Pla	ce: Dhamichap, S	Sundarpur F/Y:	: 2076/77				
4.	Name of River System:	Triyuga-2(Kang, Hadiya, Siwai)	River System						
5.	GPS Coordinate: E 86 <sup>0</sup> 5.	3'36.12'' N 26 <sup>0</sup> 46'8.26''							
6.	Cost:- a) Estimated:								
Offic	e: 1923027	User: 104560	Others:	Total: 2104509(Includin	ng Contingency)				
	b) Actual Expenditu	ure:							
Offic	e: 1803112	User: 98039.91	Others:	Total: 1901151.91					
7.	Objectives:	• To protect River Bank and	d adjacent farm la	and.					
		• To conserve and protect the	he settlement.						
8.	Conservation Measure /	• Launching, Toe-wall, Rev	vetment were cons	structed on the earthen earthen	mbankment on the				
	Technique applied:	side river.							
		Grass turfing was done or	the slope of the o	earthen embankment.					
9.	Implementation process:	User group approach. Accordin	ng to the agreeme	nt, the concerned user gi	roup purchased the				
		gabion boxes, stone and compl	eted the work by	using local manpower a	vailable.				
10.	Gender/social	From the selection of the activity	ity to implementa	tion of the work, women	n were equally				
	consideration:	involved in each step of the process.							
11.	Effect/impact:	River Bank erosion is mir	• River Bank erosion is minimized and provided safe the adjacent household.						
		• In total 120 house holds	are benifitted from	n the programme.					
		Minimized the flood disas	ster on farm land.						
12	Benefited HH	Total: 36 Dalit:	Janjati: 36	Madhesi:	Others:				
13	Employment Generated:	350 md							
14	Problem faced:	Boulder collection work b	ecame difficult it	were collected from dis	tant region .				
15	Maintenance /	No maintainance fund is there	but user groups w	ill carry out the repairm	ent and				
	Sustainability:	maintenance work as and when	n required.						
16	Lesson learned:	If user group are more involved	d, the implementa	tion will be easier and w	vould successfully				
		complete the work. Awareness	creation, empower	erment and mobilization	of user group is				
		essential before real implement	tation of the activ	ity.					
17	Other:	User Group Name: Dhamichap	GherKhola Galc	hi Niyantran U.G.					
		Chair Person: Prabhu Choudha	ıry						
		Site Incharge: Niraj Prasad Da	hal						
		Unit Officer: Bhim Bahadur K	alikote						





1.	Name of Activity: Const	ructi	on of Embanl	kment, Gabior	n Box Revetmen	t and l	Lunching Apron		
2.	Name of Program: Gully	, Lai	ndslide Protect	tion Program					
3.	Location: Choudandigad	lhi Na	a.Pa. W	ard: 5 Pla	ce: Gherkhola, S	Sundar	pur F/Y:	2076/77	
4.	Name of River System: 7	Triyu	ıga-2(Kang, H	ladiya, Siwai)	River System				
5.	GPS Coordinate: E 86 <sup>0</sup> 5.	3'36.	.24" N 2	26 <sup>°</sup> 46'8.27''					
6.	Cost:- a) Estimated:	_							
Office	e: 1922205	Use	er: 98991		Others:	Tot	tal: 2098085(Includir	ig Contingency)	
	b) Actual Expenditu	ure:							
Office	e: 1809490.74	Use	er: 93186.36		Others:	Tot	tal: 1902677.10		
7.	Objectives:	•	• To protect River Bank and adjacent farm land.						
		•	To conserve	and protect th	ne settlement.				
8.	Conservation Measure /	•	Launching, T	Гое-wall, Rev	etment were con	struct	ed on the earthen er	mbankment on the	
	Technique applied:		side river.						
		•	Grass turfing	g was done on	the slope of the	earthe	en embankment.		
9.	Implementation process:	Use	er group appro	ach. Accordin	ng to the agreeme	ent, th	e concerned user gr	oup purchased the	
		gab	ion boxes, sto	ne and comple	eted the work by	using	g local manpower av	vailable.	
10.	Gender/social	Fro	m the selection	n of the activi	ty to implementa	ation of	of the work, women	were equally	
	consideration:	invo	olved in each s	step of the pro	ocess.				
11.	Effect/impact:	•	• River Bank erosion is minimized and provided safe the adjacent household.						
		•	In total 120	house holds a	are benifitted fro	m the	programme.		
		•	Minimized th	he flood disas	ter on farm land.		•		
12	Benefited HH	Tot	al: 36	Dalit:	Janjati: 36		Madhesi:	Others:	
13	Employment Generated:	350	md						
14	Problem faced:	٠	Boulder coll	ection work b	ecame difficult i	t were	e collected from dist	tant region .	
15	Maintenance /	No	maintainance	fund is there l	but user groups v	will ca	rry out the repairm	ent and	
	Sustainability:	mai	ntenance worl	k as and when	required.				
16	Lesson learned:	If u	ser group are	more involved	l, the implement	ation	will be easier and w	ould successfully	
		con	plete the wor	k. Awareness	creation, empow	verme	nt and mobilization	of user group is	
		esse	ential before re	eal implement	ation of the activ	vity.			
17	Other:	Use	er Group Name	e: GherKhola	Galchi Niyantra	n U.G			
		Cha	ur Person: Bas	shudev Chou	dhary				
		Site	e Incharge: Ni	raj Prasad Dal	nal				
		Uni	t Officer: Bhi	m Bahadur Ka	alikote				





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1.	Name of Activity: Const	ructi	on of Em	bankm	ent, Gabion	Box Revetmen	t and Lunching	Apron		
2.	Name of Program: Gully	, Lai	ndslide Pro	otection	n Program					
3.	Location: Choudandigad	hi N	a.Pa.	Ward	1:9 Plac	e: Chedikhola,	, Ajgara	F/Y	r: 2076/77	
4.	Name of River System: 7	Гriyu	iga-2(Kan	g, Had	iya, Siwai) H	River System				
5.	GPS Coordinate: E 86 <sup>0</sup> 5	1'22.	.15"	N $26^{\circ}$	45'45.97''					
6.	Cost:- a) Estimated:									
Office	e: 1923077	Use	er: 172845	5		Others:	Total: 22687	767(Includ	ing Contingency)	
	b) Actual Expenditu	ure:								
Office	e: 1804140	Use	er: 162155	5		Others:	Total: 19662	Total: 1966295		
7.	Objectives:	•	To prote	ct Rive	er Bank and	adjacent farm	land.			
		•	To conse	erve an	d protect the	e settlement.				
8.	Conservation Measure /	•	Launchin	ng, Re	vetment wer	e constructed of	on the side river			
	Technique applied:			0						
9.	Implementation process:	Use	er group ap	oproach	h. According	g to the agreem	ent, the concern	ied user g	group purchased the	
		gab	ion boxes,	stone	and complet	ted the work by	using local ma	inpower <i>e</i>	ivailable.	
10.	Gender/social	Fro	m the sele	ction o	of the activity	y to implement	ation of the wor	k, wome	n were equally	
	consideration:	invo	olved in ea	ich stej	p of the proc	cess.				
11.	Effect/impact:	•	• River Bank erosion is minimized and provided safe the adjacent household.							
		•	In total	120 ho	ouse holds an	re benifitted fro	om the program	me.		
		•	Minimiz	ed the	flood disaste	er on farm land				
12	Benefited HH	Tot	al: 110		Dalit: 12	Janjati: 40	Madhes	i:	Others: 58	
13	Employment Generated:	450	md							
14	Problem faced:	•	Boulder	collect	ion work be	came difficult	it were collected	d from dia	stant region .	
15	Maintenance /	No	maintaina	nce fur	nd is there by	ut user groups	will carry out th	ie repairn	nent and	
	Sustainability:	mai	ntenance	work a	s and when r	required.				
16	Lesson learned:	If u	ser group	are mo	re involved,	the implement	ation will be ea	sier and v	would successfully	
		con	plete the	work.	Awareness c	reation, empow	verment and mo	obilization	n of user group is	
		esse	ential befo	re real	implementa	tion of the activ	vity.			
17	Other:	Use	er Group N	lame: (	Chedikhola j	pairo Niyantrar	ı U.G.			
		Cha	ir Person:	Nawa	raj Budhatho	oki				
		Site	Incharge	: Niraj	Prasad Daha	al				
		Uni	t Officer:	Bhim l	Bahadur Kal	likote				
1	1	1								





1.	Name of Activity: Const	ruction o	of Embankr	nent, Gabion E	lox Revetment a	and Lunching Apron			
2.	Name of Program: River	Bank St	abilization	Program		<u> </u>			
3.	Location: Triyuga Na.Pa	l.	Wai	rd: 1 Place	Jogidaha, Kang	g Khola F/Y:	2076/77		
4.	Name of River System:	Triyuga-2	2(Kang, Ha	diya, Siwai) Ri	ver System				
5.	GPS Coordinate: E 86 <sup>0</sup> 4	6'38.11''	' N 26	057'57.75''	·				
6.	Cost:- a) Estimated:								
Office	e: 6490385	User: 8	803332		Others:	Total: 7553333(Includin	ng Contingency)		
	b) Actual Expenditu	ure:							
Office	e: 6148365.2	User: 7	61002.47		Others:	Total: 6909367.67			
7.	Objectives:	• To	• To protect River Bank and adjacent farm land.						
		• To	conserve a	nd protect the	settlement.				
8.	Conservation Measure /	• La	unching, To	be-wall, Reveti	nent were const	ructed on the earthen en	mbankment on the		
	Technique applied:	sid	le river.						
		• Gr	ass turfing v	was done on th	e slope of the ea	rthen embankment.			
9.	Implementation process:	User gro	oup approad	ch. According	to the agreement	, the concerned user gr	oup purchased the		
		gabion l	boxes, stone	e and complete	d the work by u	sing local manpower av	vailable.		
10.	Gender/social	From th	e selection	of the activity	to implementati	on of the work, women	were equally		
	consideration:	involve	d in each ste	ep of the proce	ss.				
11.	Effect/impact:	• Riv	• River Bank erosion is minimized and provided safe the adjacent household.						
		• In	total 120 ho	ouseholds are b	enifitted from th	ne programme.			
		• Mi	inimized the	e flood disaster	on farm land.				
12	Benefited HH	Total: 1	800	Dalit: 100	Janjati: 1000	Madhesi:	Others: 700		
13	Employment Generated:	950 md							
14	Problem faced:	• Bo	oulder collect	ction work beca	ame difficult it v	vere collected from dis	tant region .		
15	Maintenance /	No main	ntainance fu	and is there but	user groups wil	l carry out the repairm	ent and		
	Sustainability:	mainten	nance work	as and when re	quired.				
16	Lesson learned:	If user g	group are m	ore involved, t	he implementati	on will be easier and w	ould successfully		
		complet	te the work.	Awareness cr	eation, empower	ment and mobilization	of user group is		
		essentia	l before rea	l implementati	on of the activit	у.			
17	Other:	User Gr	roup Name:	Kang Khola E	adhi Niyantran	Tatbandh Nirman U.G.			
		Chair P	erson: Arun	a Devi Choud	nari				
		Site Inc	harge: Nira	J Prasad Dahal					
		Unit Of	ficer: Bhim	Bahadur Kalıl	kote				



1.	Name of Activity: Const	ructio	on of Embank	ment, Gabion I	Box Revetment	and Lunching Ap	ron		
2.	Name of Program: River	Bank	k Stabilization	Program					
3.	Location: Choudandigad	lhi Na	n.Pa. Wa	ard: 9 Place	: Tharutol, Had	iya Khola	F/Y:	2076/77	
4.	Name of River System: 7	Triyu	ga-2(Kang, Ha	adiya, Siwai) R	iver System				
5.	GPS Coordinate: E 86 <sup>0</sup> 49	9'27.'	79'' N 20	6 <sup>°</sup> 46'41.18''					
6.	Cost:- a) Estimated:	-							
Office	e: 4326923	User	r: 490010		Others:	Total: 4990010(	Includii	ng Contingency)	
	b) Actual Expenditu	ure:				-			
Office	e: 3972192	User	r:		Others:	Total: 449837.8	6		
7.	Objectives:	•	To protect Ri	ver Bank and a	adjacent farm la	nd.			
		•	To conserve a	and protect the	settlement.				
8.	Conservation Measure /	•	Launching, T	oe-wall, Revet	ment were const	tructed on the ear	then en	mbankment on the	
	Technique applied:		side river.						
		•	Grass turfing	was done on th	e slope of the e	arthen embankme	ent.		
9.	Implementation process:	User	r group approa	ich. According	to the agreemen	t, the concerned u	user gr	oup purchased the	
		gabi	on boxes, ston	e and complete	ed the work by u	ising local manpo	ower a	vailable.	
10.	Gender/social	From	n the selection	of the activity	to implementat	ion of the work, v	vomen	were equally	
	consideration:	invo	olved in each st	tep of the proce	ess.				
11.	Effect/impact:	•	<ul> <li>River Bank erosion is minimized and provided safe the adjacent household.</li> </ul>						
		•	In total 200 h	nouse holds are	benifitted from	the programme.			
		•	Minimized th	e flood disaster	on farm land.				
12	Benefited HH	Tota	al: 151	Dalit: 11	Janjati: 115	Madhesi:		Others: 25	
13	Employment Generated:	650	md						
14	Problem faced:	•	Boulder colle	ction work bec	ame difficult it	were collected from	om dis	tant region .	
15	Maintenance /	No r	maintainance f	und is there bu	t user groups wi	ll carry out the re	pairm	ent and	
	Sustainability:	mair	ntenance work	as and when re	equired.				
16	Lesson learned:	If us	ser group are n	nore involved, t	the implementat	ion will be easier	and w	ould successfully	
		com	plete the work	. Awareness cr	eation, empowe	rment and mobili	zation	of user group is	
		esse	ntial before rea	al implementat	ion of the activi	ty.			
17	Other:	User	r Group Name	: Tharu tole Ha	diya Khola Nac	li Niyantran U.G.			
		Chai	ir Person: Raj	Kumar Khadka	L				
		Site	Incharge: Nira	aj Prasad Dahal					
		Unit	Officer: Bhin	n Bahadur Kalı	kote				





1.       Name of Activity: Construction of Embankment, Gabion Box Revetment and Lunching Apron         2.       Name of Program: River Bank Stabilization Program         3.       Location: Choudandigadhi Na.Pa.       Ward: 9       Place: Musarniya, Hadiya Khola       F/X         4.       Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System       5.       GPS Coordinate: E 86 <sup>0</sup> 49'20.95''       N 26 <sup>0</sup> 45'22.96''         6.       Cost:- a) Estimated:       Office: 3605769       User: 413845       Others:       Total: 4163845(Include b) Actual Expenditure:         Office:       3149689.2       User: 361499.34       Others:       Total: 3511185.54         7.       Objectives:       •       To protect River Bank and adjacent farm land.       •         8.       Conservation Measure / Technique applied:       •       Launching, Toe-wall, Revetment were constructed on the earthen eside river.       •         9.       Implementation process:       User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower applied:       •	n F/Y: 2076/77							
2.       Name of Program: River Bank Stabilization Program         3.       Location: Choudandigadhi Na.Pa.       Ward: 9       Place: Musarniya, Hadiya Khola       F/Y         4.       Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System       5.       GPS Coordinate: E 86°49'20.95''       N 26°45'22.96''         6.       Cost:- a) Estimated:       Others:       Total: 4163845(Include b) Actual Expenditure:         Office:       3149689.2       User: 361499.34       Others:       Total: 3511185.54         7.       Objectives:       •       To protect River Bank and adjacent farm land.       •         8.       Conservation Measure / Technique applied:       •       Launching, Toe-wall, Revetment were constructed on the earthen ensister river.         9.       Implementation process:       User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower and protect for the set lement.	F/Y: 2076/77							
3.       Location: Choudandigadhi Na.Pa.       Ward: 9       Place: Musarniya, Hadiya Khola       F/Y         4.       Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System       5.       GPS Coordinate: E 86°49'20.95''       N 26°45'22.96''         5.       GPS Coordinate: E 86°49'20.95''       N 26°45'22.96''	F/Y: 2076/77							
4.       Name of River System: Triyuga-2(Kang, Hadiya, Siwai) River System         5.       GPS Coordinate: E 86 <sup>0</sup> 49'20.95'' N 26 <sup>0</sup> 45'22.96''         6.       Cost:- a) Estimated:         Office: 3605769       User: 413845         0 b) Actual Expenditure:         Office: 3149689.2       User: 361499.34         7.       Objectives:         •       To protect River Bank and adjacent farm land.         •       To conserve and protect the settlement.         8.       Conservation Measure / Technique applied:       •         9.       Implementation process:       User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower	luding Contingency)							
5.       GPS Coordinate: E 86°49'20.95'' N 26°45'22.96''         6.       Cost:- a) Estimated:         Office: 3605769       User: 413845         b) Actual Expenditure:         Office: 3149689.2       User: 361499.34         7.       Objectives:         6.       To protect River Bank and adjacent farm land.         6.       To conserve and protect the settlement.         8.       Conservation Measure / Technique applied:         9.       Implementation process:         9.       Implementation process:         User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower an	luding Contingency)							
6.       Cost:- a) Estimated:         Office: 3605769       User: 413845       Others:       Total: 4163845(Inclue)         b) Actual Expenditure:       Office: 3149689.2       User: 361499.34       Others:       Total: 3511185.54         7.       Objectives:       • To protect River Bank and adjacent farm land.       • To conserve and protect the settlement.         8.       Conservation Measure / Technique applied:       • Launching, Toe-wall, Revetment were constructed on the earthen embankment.         9.       Implementation process:       User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower and completed the work by usin	luding Contingency)							
Office: 3605769       User: 413845       Others:       Total: 4163845(Include         b) Actual Expenditure:	luding Contingency)							
b) Actual Expenditure:         Office: 3149689.2       User: 361499.34       Others:       Total: 3511185.54         7.       Objectives:       • To protect River Bank and adjacent farm land.         8.       Conservation Measure / Technique applied:       • Launching, Toe-wall, Revetment were constructed on the earthen side river.         9.       Implementation process:       User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower approach.	0 0 0							
Office:       3149689.2       User:       361499.34       Others:       Total:       3511185.54         7.       Objectives:       •       To protect River Bank and adjacent farm land.       •       To conserve and protect the settlement.         8.       Conservation Measure / Technique applied:       •       Launching, Toe-wall, Revetment were constructed on the earthen side river.         9.       Implementation process:       User group approach. According to the agreement, the concerned user g gabion boxes, stone and completed the work by using local manpower approach.								
7.       Objectives:       • To protect River Bank and adjacent farm land.         8.       Conservation Measure / Technique applied:       • Launching, Toe-wall, Revetment were constructed on the earthen side river.         9.       Implementation process:       User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower approach.								
<ul> <li>To conserve and protect the settlement.</li> <li>Conservation Measure / Technique applied:</li> <li>Launching, Toe-wall, Revetment were constructed on the earthen side river.</li> <li>Grass turfing was done on the slope of the earthen embankment.</li> <li>Implementation process:</li> <li>User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower and completed the work by using local</li></ul>								
<ul> <li>8. Conservation Measure / Technique applied:</li> <li>9. Implementation process:</li> <li>User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower and completed</li></ul>								
Technique applied:       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 gabion boxes, stone and completed the work by using local manpower approach.	en embankment on the							
<ul> <li>Grass turfing was done on the slope of the earthen embankment.</li> <li>Implementation process: User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower and complete</li></ul>								
9. Implementation process: User group approach. According to the agreement, the concerned user gabion boxes, stone and completed the work by using local manpower a								
gabion boxes, stone and completed the work by using local manpower a	r group purchased the							
	er available.							
10. Gender/social From the selection of the activity to implementation of the work, wome	men were equally							
consideration: involved in each step of the process.								
11. Effect/impact: • River Bank erosion is minimized and provided safe the adjacent he	• 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 Janiati: 25 Madhesi:	Others: 75							
13   Employment Generated:   550 md	distant region .							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from distribution	rment and							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance /       No maintainance fund is there but user groups will carry out the repairment								
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance / Sustainability:       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.	d would successfully							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance / Sustainability:       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.         16       Lesson learned:       If user group are more involved, the implementation will be easier and w	ion of user group is							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance / Sustainability:       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.         16       Lesson learned:       If user group are more involved, the implementation will be easier and v complete the work. Awareness creation, empowerment and mobilization								
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance / Sustainability:       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.         16       Lesson learned:       If user group are more involved, the implementation will be easier and w complete the work. Awareness creation, empowerment and mobilization essential before real implementation of the activity.	Isor Group Name: Padhakrichna Richtala Musaharniya Khala Niyantran U.G.							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance / Sustainability:       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.         16       Lesson learned:       If user group are more involved, the implementation will be easier and v complete the work. Awareness creation, empowerment and mobilization essential before real implementation of the activity.         17       Other:       User Group Name: Radhakrishna Bichtole Musaharniya Khola Niyantra	tran U.G.							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance /       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.         16       Lesson learned:       If user group are more involved, the implementation will be easier and v complete the work. Awareness creation, empowerment and mobilization essential before real implementation of the activity.         17       Other:       User Group Name: Radhakrishna Bichtole Musaharniya Khola Niyantra Chair Person: Raj Kumar Khatri	tran U.G.							
13       Employment Generated:       550 md         14       Problem faced:       • Boulder collection work became difficult it were collected from dis         15       Maintenance /       No maintainance fund is there but user groups will carry out the repairm maintenance work as and when required.         16       Lesson learned:       If user group are more involved, the implementation will be easier and v complete the work. Awareness creation, empowerment and mobilization essential before real implementation of the activity.         17       Other:       User Group Name: Radhakrishna Bichtole Musaharniya Khola Niyantra Chair Person: Raj Kumar Khatri         18       Site Incharge: Niraj Prasad Dahal	tran U.G.							
<ul> <li>In total 150 house holds are benifitted from the programme.</li> <li>Minimized the flood disaster on farm land.</li> <li>12 Benefited HH</li> <li>Total: 105</li> <li>Dalit: 5</li> <li>Janiati: 25</li> <li>Madhesi:</li> </ul>	Others: distant regio							





1.	Name of Activity: Const	truct	ion of Embank	ment, Gabion	Box Revetment	and Lunching Apron			
2.	Name of Program: River	r Baı	nk Stabilizatior	ı Program					
3.	Location: Choudandigad	dhi N	la.Pa. Wa	ard: 5 Place	: Khoriya Tole,	Siwai Khola F/Y:	2076/77		
4.	Name of River System:	Triy	uga-2(Kang, H	adiya, Siwai) R	iver System	·			
5.	GPS Coordinate: E 86 <sup>0</sup> 5	52'41	.97" N 2	.6°45'37.93''					
6.	Cost:- a) Estimated:								
Office	e: 8653846	Use	r: 546150		Others:	Total: 9546151(Includin	ng Contingency)		
	b) Actual Expenditu	are:			-	-			
Office	e: 8050268	Use	er: 508050.77		Others:	Total: 8558325.78			
7.	Objectives:	•	• To protect River Bank and adjacent farm land.						
		٠	To conserve a	and protect the	settlement.				
8.	Conservation Measure /	•	Launching, T	oe-wall, Revet	ment were const	ructed on the earthen er	mbankment on the		
	Technique applied:		side river.						
		•	Grass turfing	was done on th	e slope of the ea	arthen embankment.			
9.	Implementation process:	Use	r group approa	ch. According	to the agreement	t, the concerned user gr	oup purchased the		
		gab	ion boxes, stor	e and complete	ed the work by u	sing local manpower av	vailable.		
10.	Gender/social	Fro	m the selection	of the activity	to implementati	on of the work, women	were equally		
	consideration:	inve	involved in each step of the process.						
11.	Effect/impact:	٠	• River Bank erosion is minimized and provided safe the adjacent household.						
		•	In total 150 h	nouse holds are	benifitted from	the programme.			
		•	Minimized th	e flood disaster	on farm land.				
12	Benefited HH	Tot	al: 761	Dalit: 101	Janjati: 503	Madhesi:	Others: 157		
13	Employment Generated:	105	0 md						
14	Problem faced:	•	Boulder colle	ction work bec	ame difficult it v	were collected from dist	tant region .		
15	Maintenance /	No	maintainance f	und is there but	t user groups wi	ll carry out the repairme	ent and		
	Sustainability:	mai	intenance work	as and when re	equired.				
16	Lesson learned:	If u	ser group are n	nore involved, t	he implementation	ion will be easier and w	ould successfully		
		con	aplete the work	. Awareness cr	eation, empower	rment and mobilization	of user group is		
		esse	ential before rea	al implementati	ion of the activit	y.			
17	Other:	Use	er Group Name	: Siwai Khola I	Bandh Nirman U	J.G.			
		Cha	air Person: Dill	isher Rai					
		Site	e Incharge: Nira	aj Prasad Dahal					
		Uni	t Officer: Bhin	n Bahadur Kali	kote				
1									



1.	Name of Activity: Earthy	work Excavation, E	arthem Dam, Po	CC, RCC, Ston	e Mesonary Work				
2.	Name of Program: Groun	nd Water Recharge	and Utilization	of Surface wate	er				
3.	Location: Triyuga Na.Pa	. Wa	rd: 1 Place:	Maruwa Khols	i F/Y:	: 2076/77			
4.	Name of River System: 7	Гriyuga-2(Kang, Ha	diya, Siwai) Ri	ver System					
5.	GPS Coordinate: E 86 <sup>0</sup> 40	6'59.44'' N 26	5 <sup>°</sup> 45'54.18''						
6.	Cost:- a) Estimated:								
Office	e: 1442308	User: 119455		Others:	Total: 1619456(Includin	ng Contingency)			
	b) Actual Expenditu	ure:							
Office	e: 1228452.80	User: 101743		Others:	Total: 1330195.86				
7.	Objectives:	To minimized	l the irrigation J	problem in dry s	season in farm land.				
		To conserve v	water Resource.						
8.	Conservation Measure /	• Earth work (E	Excavation, Dar	n Construction)					
	Technique applied:	Stone Messor	nary, PCC & Hu	umepipe for dra	in.				
9.	Implementation process:	User group approa	ch. According t	to the agreemen	t, the concerned user gr	roup purchased the			
		stone, Cement, Hu	me Pipe and co	ompleted the wo	ork by using local manp	ower available.			
10.	Gender/social	From the selection	of the activity	to implementati	on of the work, women	were equally			
	consideration:	involved in each st	tep of the proce	ss.					
11.	Effect/impact:	Irrigation pro	blem in Dry se	ason is solved.					
		Water Table of the formula of t	• Water Table of adjacent area Increase.						
		UG get Benef	it By Fish farm	ing.					
12	Benefited HH	Total: 250	Dalit: 50	Janjati: 160	Madhesi:	Others: 40			
13	Employment Generated:	250 md							
14	Problem faced:	• Lack of skille	d manpower an	d delay in getti	ng the material on time	cause delay in the			
		completion of	f the project						
15	Maintenance /	No maintainance f	und is there but	user groups wi	ll carry out the repairm	ent and			
	Sustainability:	maintenance work	as and when re	quired.					
16	Lesson learned:	If user group are n	nore involved, t	he implementat	ion will be easier and w	ould successfully			
		complete the work	. Awareness cre	eation, empowe	rment and mobilization	of user group is			
		essential before rea	al implementati	on of the activit	у.				
17	Other:	User Group Name	: Maruwa Khol	si Pokhari Nirm	an U.G.				
		Chair Person: Ram	anand Choudh	ari					
		Site Incharge: Nira	ij Prasad Dahal						
		Unit Officer: Bhin	1 Bahadur Kalik	kote					
		1							





1.	Name of Activity: Earthy	work Excavation, Ea	arthem Dam, PO	CC, RCC, Ston	e Mesonary Work					
2.	Name of Program: Groun	nd Water Recharge	and Utilization	of Surface wate	er					
3.	Location: Choudandigad	hi Na.Pa. 🛛 🛛 Wa	rd: 9 Place:	Aminikharka,	Choufal F/Y	: 2076/77				
4.	Name of River System: 7	Гriyuga-2(Kang, Ha	diya, Siwai) Ri	ver System						
5.	GPS Coordinate: E 86 <sup>0</sup> 48	8'57.76'' N 26	5 <sup>0</sup> 45'18.80''							
6.	Cost:- a) Estimated:									
Office	e: 1538462	User: 149800		Others:	Total: 1749801(Includi	ng Contingency)				
	b) Actual Expenditu	ure:		1	1					
Office	e: 1508076	User: 148000		Others:	Total: 1656076					
7.	Objectives:	To minimized	the irrigation p	problem in dry s	season in farm land.					
		• To conserve v	vater Resource.							
8.	Conservation Measure /	• Earth work (E	excavation, Dan	n Construction)						
	Technique applied:	Stone Messon	ary, PCC & Hu	mepipe for dra	in.					
9.	Implementation process:	User group approa	ch. According t	o the agreemen	t, the concerned user g	roup purchased the				
		stone, Cement, Hu	me Pipe and co	ompleted the wo	ork by using local manp	ower available.				
10.	Gender/social	From the selection	of the activity f	to implementati	on of the work, women	were equally				
	consideration:	involved in each st	ep of the proces	ss.						
11.	Effect/impact:	Irrigation prot	olem in Dry sea	ason is solved.						
		• Water Table of	Water Table of adjacent area Increase.							
		UG get Benef	it By Fish farm	ing.						
12	Benefited HH	Total: 35	Dalit: 3	Janjati: 2	Madhesi:	Others: 30				
13	Employment Generated:	250 md								
14	Problem faced:	<ul> <li>Lack of skilled</li> </ul>	manpower and	l delay in gettin	g the material on time of	cause delay in the				
		completion of t	the project							
15	Maintenance /	No maintainance fu	and is there but	user groups wi	ll carry out the repairm	ent and				
	Sustainability:	maintenance work	as and when re-	quired.						
16	Lesson learned:	If user group are m	ore involved, th	he implementat	ion will be easier and w	vould successfully				
		complete the work.	. Awareness cre	eation, empowe	rment and mobilization	of user group is				
		essential before rea	ul implementation	on of the activit	у.					
17	Other:	User Group Name:	Namuna Chou	fal Pokhari Ni	rman U.G.					
		Chair Person: Jaga	t Bahadur Khad	lka						
		Site Incharge: Nira	J Prasad Dahal							
		Unit Officer: Bhim	i Bahadur Kalik	tote						





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: Choudandigad	hi Na.Pa. Wa	rd: 9 Place:	Fatepur Road,	Rakshyadaha F/Y	: 2076/77					
4.	Name of River System: 7	Friyuga-2(Kang, Ha	diya, Siwai) Ri	ver System							
5.	GPS Coordinate: E 86 <sup>0</sup> 5	0'14.10'' N 26	<sup>0</sup> 46'26.32''								
6.	6. Cost:- a) Estimated:										
Office	Office: 1346153User: 101691Others:Total: 1501690(Including Contingency)										
	b) Actual Expenditu	ure:									
Office	Office: 1291069.31         User: 97529.87         Others:         Total: 1388599										
7.	7. Objectives: • To minimized the irrigation problem in dry season in farm land.										
	• To conserve water Resource.										
8.	Conservation Measure /	• Earth work (E	xcavation, Dan	n Construction)							
	Technique applied:	Stone Messon	ary, PCC & Hu	mepipe for dra	in.						
9.	Implementation process:	User group approad	ch. According t	o the agreemen	t, the concerned user gr	oup purchased the					
		stone, Cement, Hur	me Pipe and co	ompleted the wo	ork by using local manp	ower available.					
10.	Gender/social	From the selection	of the activity	to implementati	on of the work, women	were equally					
	consideration:	involved in each ste	ep of the proces	ss.							
11.	Effect/impact:	Irrigation prob	olem in Dry sea	ason is solved.							
		Water Table o	of adjacent area	Increase.							
		UG get Benefi	it By Fish farm	ing.							
12	Benefited HH	Total: 41	Dalit: 6	Janjati: 15	Madhesi:	Others: 20					
13	Employment Generated:	280 md									
14	Problem faced:	• Lack of skilled	manpower and	delay in gettin	g the material on time o	cause delay in the					
		completion of t	he project								
15	Maintenance /	No maintainance fu	and is there but	user groups wi	ll carry out the repairm	ent and					
	Sustainability:	maintenance work	as and when re	quired.							
16	Lesson learned:	If user group are m	ore involved, th	he implementat	ion will be easier and w	ould successfully					
		complete the work.	Awareness cre	eation, empowe	rment and mobilization	of user group is					
		essential before rea	l implementati	on of the activit	y.						
17	Other:	User Group Name:	Rakshyadaha	Pokhari Nirmai	n U.G.						
		Chair Person: Chat	ra Bahadur Bas	snet							
		Site Incharge: Nira	J Prasad Dahal								
		Unit Officer: Bhim	Bahadur Kalik	tote							





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: 7	Triyuga-2(Kang, Ha	diya, Siwai) Ri	iver System								
5.	$5.  \text{GPS Coordinate: E } 86^{\circ}51'49.20'' \qquad \text{N } 26^{\circ}45'20.57''$											
6.	5. Cost:- a) Estimated:											
Office	User: 55488 Others: Total: 706429(Including Contingency)											
	b) Actual Expenditu	ure:										
Office	Office: 583601.76 User: 51737.71 Others: Total: 635339.47											
7.	7. Objectives: • To minimized the irrigation problem in dry season in farm land.											
	• To conserve water Resource.											
8.	Conservation Measure /	• Earth work (E	Excavation, Dar	m Construction)								
	Technique applied:	Stone Messon	ary, PCC & H	umepipe for dra	in.							
9.	Implementation process:	User group approac	ch. According	to the agreemen	t, the concerned user gr	roup purchased the						
		stone, Cement, Hur	me Pipe and co	ompleted the wo	ork by using local manp	oower available.						
10.	Gender/social	From the selection	of the activity	to implementati	on of the work, women	i were equally						
	consideration:	involved in each st	ep of the proce	SS.								
11.	Effect/impact:	Irrigation prob	blem in Dry se	ason is solved.								
		• Water Table of	of adjacent area	Increase.								
		• UG get Benef	it By Fish farm	ning.								
12	Benefited HH	Total: 235	Dalit: 80	Janjati: 142	Madhesi:	Others: 13						
13	Employment Generated:	220 md										
14	Problem faced:	• Lack of skilled	manpower and	d delay in gettin	g the material on time o	cause delay in the						
		completion of t	the project									
15	Maintenance /	No maintainance fu	und is there but	t user groups wi	ll carry out the repairm	ent and						
	Sustainability:	maintenance work	as and when re	equired.								
16	Lesson learned:	If user group are m	ore involved, t	he implementat	ion will be easier and w	vould successfully						
		complete the work.	. Awareness cre	eation, empowe	rment and mobilization	of user group is						
		essential before rea	al implementati	on of the activit	y.							
17	Other:	User Group Name:	. Khunahi Khol	la Pokhari Nirn	nan U.G.							
		Chair Person: Sarit	a Rai									
		Site Incharge: Nira	y Prasad Dahal									
		Unit Officer: Bhim	i Bahadur Kalil	kote								





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: Choudandigad	hi Na.Pa. Ward	l: 5 Place:	Sundarpur, Siv	valaya F/Y	: 2076/77					
4.	Name of River System: 7	Гriyuga-2(Kang, Hadi	ya, Siwai) Ri	ver System							
5.	5. GPS Coordinate: E $86^{0}53'54.24''$ N $26^{0}45'25.27''$										
6.	6. Cost:- a) Estimated:										
Office	Office: 2258711User: 219200Others:Total: 22896659(Including Contingency)										
	b) Actual Expenditu	are:									
Office	Office: 2321224         User: 219200         Others:         Total: 2540424										
7.	7. Objectives: • To minimized the irrigation problem in dry season in farm land.										
	• To conserve water Resource.										
8.	Conservation Measure /	• Earth work (Exc	cavation, Dan	n Construction)							
	Technique applied:	Stone Messonar	ry, PCC & Hu	mepipe for drai	n.						
9.	Implementation process:	User group approach	n. According t	o the agreement	, the concerned user g	roup purchased the					
		stone, Cement, Hume	e Pipe and co	ompleted the wo	rk by using local man	power available.					
10.	Gender/social	From the selection of	f the activity t	to implementati	on of the work, women	n were equally					
	consideration:	involved in each step	o of the proces	ss.							
11.	Effect/impact:	Irrigation proble	em in Dry sea	ason is solved.							
		• Water Table of a	adjacent area	Increase.							
		• UG get Benefit	By Fish farm	ing.							
12	Benefited HH	Total: 238	Dalit: 35	Janjati: 104	Madhesi:	Others: 99					
13	Employment Generated:	320 md									
14	Problem faced:	• Lack of skilled m	nanpower and	l delay in getting	g the material on time	cause delay in the					
		completion of the	e project								
15	Maintenance /	No maintainance fun	nd is there but	user groups wil	l carry out the repairm	ent and					
	Sustainability:	maintenance work as	s and when re	quired.							
16	Lesson learned:	If user group are mor	re involved, tl	he implementati	on will be easier and v	would successfully					
		complete the work. A	Awareness cre	eation, empower	ment and mobilization	n of user group is					
		essential before real i	implementati	on of the activit	у.						
17	Other:	User Group Name: S	Shivalaya Pol	khari Nirman U.	G.						
		Chair Person: Govine	d Bahadur Ba	snet							
		Site Incharge: Niraj I	Prasad Dahal								
		Unit Officer: Bhim B	Bahadur Kalik	tote							





## **BAKRAHA RIVER SYSTEM**

1.	Name of Activity: Gabion Checkdam, Bioengineering										
2.	Name of Program: Gully	and Landslid	e Conti	rol							
3.	Location: Miklajung		War	d: 2	Place: Chuli	Pokhari, Cha	.ga	F/Y:	2076/77		
4.	Name of River System:	Bakraha Rive	r Syste	m							
5.	GPS Coordinate: E87.64	3865 N 26.	791735	5							
6.	Cost:- a)Estimated:										
Offic	e: 492404.63 ( Including		User:	25000		Others:	Total:	51740	)4.63		
Conti	ntingency)										
	b) Actual Expenditure:										
Offic	e: 485216		User:	25000		Others:	Total:	51021	16		
7.	Objectives:         • To improve gully catchments to reduce and regulate the run off rates.										
	To conserve/protect the settlement.										
8.	Conservation Measure • Gabion Checkdam and wall is constructed.										
	/ Technique applied:	• Bam	boo pla	antation	was done to	control debri	s flow and che	ck the	e surface		
		erosion.									
9.	Implementation	User group a	User group approach. According to the agreement, the concerned user group purchased								
	process:	the gabion be	oxes, st	tone and	l bamboo and	l completed the	he work by usin	ng loc	cal manpower		
		available, wi	th freq	uent app	propriate con	sultation with	n PIU, Salakpur	r			
10.	Gender/social	From the sel	ection of	of the a	ctivity, decisi	on making to	implementatio	on of t	the work,		
	consideration:	women were	equall	y involv	ved in the pro	cess.					
11.	Effect/impact:	To some exte	ent, the	e gully/ ]	landslide is c	ontrolled. The	e road on the si	ide of	landslide is		
		more protect	ed.								
12	Benefited HH	Total: 110		Dalit:	Janja	ati:110	Madhesi:		Other:		
13	Employment	200									
	Generated:	x 1 0 1 11									
14	Problem faced:	Lack of skill	ed man	power a	and delay in g	getting the ma	aterial on time	cause	delay in the		
1.5		completion of	of the p	roject.	The site being	g on remote a	rea didn't get a	access	s fast.		
15	Maintenance /	Structure req	uires th	he regul	ar maintenan	ce and repair	s if they get da	mage	d. However,		
1.6	Sustainability:	maintenance	fund is	s not all	ocated for the	e project but	will do when re	equire	ed.		
16	Lesson learned:	Correct gully control measures must be determined according to these development									
17	Others	stages and al	stages and all the control measures should be finished before the rainy season								
17	Other:	User Group	Name:	Cnaga	Galchi Pani	ro Koktnam	U.G.				
		Site Incharge	i. JII B8 v Ila V	anauur I 'aday	Nal						
		Unit Officer	Rhim	aua v Rahadu	r Kalikota						
		Unit Officer	DIIIIII	Danadu	ii Kalikole						



1.	Name of Activity: Gabion Check dam, Bioengineering										
2.	Name of Program: Gully	and Landslid	le Control								
3.	Location: Miklajung		Ward: 2	Place: 0	Chuli Pokhari		F/Y	: 2076/77			
4.	Name of River System:	Bakraha Rive	r System								
5.	GPS Coordinate: E 87.6	71105 N 26.	795917								
6.	Cost:- a)Estimated:										
Offic	ffice:3030000(Including Contingency)User:173032.57Others:Total:3331153.87										
	b) Actual Expenditure:										
Offic	e: 1,207,900	•	User: 688	0.3	Others:	Total	: 1214'	780			
7.	7. Objectives:       • To improve gully catchments to reduce and regulate the run off rates.										
	To conserve/protect the settlement.										
8.	Conservation Measure	Conservation Measure • Gabion Checkdam and wall is constructed.									
	/ Technique applied:	• Barr	nboo plantat	ion was doi	e to control del	oris flow and ch	eck the	e surface			
		eros	ion.								
9.	Implementation	User group a	approach. A	ccording to	the agreement,	the concerned u	iser gro	oup purchased			
	process:	the gabion boxes, stone and bamboo and completed the work by using local manpower									
10		available.			• • • •	C.1 1		11			
10.	Gender/social	From the sel	ection of the	e activity to	implementatio	n of the work, w	omen	were equally			
11	consideration:	involved in t	the process.	11/ 1 11' 3	· · · · · · · · · · · · · · · · · · ·						
11.	Effect/impact:	To some ext	end, the gu	ily/ landslic	e is controlled						
12	Benefited HH	Total: 45	Dal	it:	Janjati:45	Madhesi:		Other:			
13	Employment	306									
	Generated:										
14	Problem faced:	Lack of skill	led manpow	er and dela	y in getting the	material on time	e cause	e delay in the			
		completion of	of the project	t. The site l	being on remote	area didn't get	acces	s fast.			
15	Maintenance /	Structure rec	juires the re	gular maint	enance and repa	airs if they get d	amage	ed. However,			
	Sustainability:	maintenance	e fund is not	allocated for	or the project bu	it will do when	require	ed.			
16	Lesson learned:	If user group	are more in	nvolved, the	implementatio	n will be easier	and w	ould			
		successfully complete the work. Awareness creation, empowerment and mobilization of									
17		user group is essential before real implementation of the activity									
17	Other:	User Group Name: <b>Betini Galchi Pahiro Roktham U.G</b> .									
		Chair Person	i: Kam May	a Kai							
		Site Incharge	e: IIa Yadav	dun Valilea	ta						
		Unit Uniter	: Bhim Bah	adur Kaliko	le						





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1.	Name of Activity: Gabion Check dam, Bioengineering										
2.	Name of Program: Gully	and Landslid	le Control								
3.	Location: Miklajung		Ward: 2	Place	: Sakhar	e Siran		F/Y	: 2076/77		
4.	Name of River System:	Bakraha Rive	r System								
5.	GPS Coordinate: E 87.6	35309 N 26.	781526								
6.	Cost:- a)Estimated:										
Offic	fice: 2000000(Including Contingency)User: 99534.01Others:Total: 2099534										
	b) Actual Expenditure:										
Offic	e: 8,72,772	•	User: 42765			Others:	Total:	9155	37		
7.	Objectives:         • To improve gully catchments to reduce and regulate the run off rates.										
	To conserve/protect the settlement.										
8.	Conservation Measure • Gabion Checkdam and wall is constructed.										
	/ Technique applied:	• Ban	nboo plantatio	n was d	one to c	ontrol debri	s flow and che	eck the	e surface		
		eros	ion.								
9.	Implementation	User group a	approach. Acc	ording	to the ag	greement, th	e concerned us	ser gr	oup purchased		
	process:	the gabion boxes, stone and bamboo and completed the work by using local manpower									
10	Conden/accial	available.			<u> 1</u> .		£ (1, , , , , , , 1, , , , ,				
10.	Gender/social	From the sel	the process	activity	to imple	ementation (	of the work, we	omen	were equally		
11	Effect/impact:	To some ext	end the gully	/ landsl	lide is co	ontrolled					
11.	Effect/impact.			/ lanusi		Jittoffea .			1		
12	Benefited HH	Total: 330	Dalit:	50	Janjat	i:250	Madhesi:		Other:30		
13	Employment	350									
	Generated:										
14	Problem faced:	Lack of skill	led manpower	and de	lay in ge	etting the ma	aterial on time	cause	e delay in the		
1.7		completion of	of the project.	I he site	e being o	on remote a	rea didn't get	acces	s fast.		
15	Maintenance /	Structure rec	juires the regu	llar mai	for the	e and repair	s if they get da	image	d. However,		
16	Sustainadinty.	Inamenance	ara mora inv	olved t	ho impl	project but	will be assign a	equire	ould		
10	Lesson learned.	ii user group	complete the	work /	Me mpi	ententation	empowerment	tinu w	ould mobilization of		
	user group is essential before real implementation of the activity										
17	Other <sup>.</sup>	ther: User Group Name: Fedape Galchi Pahiro Roktham U.G.									
- '		Chair Person: Ram Maya Rai									
		Site Incharge	e: Ila Yadav								
		Unit Officer	: Bhim Bahad	ur Kalil	kote						



1.	Name of Activity: Gabion Check dam, Bioengineering										
2.	Name of Program: Gully	and Landslid	e Control								
3.	Location: Miklajung		Ward: 2	Place: N	lunsari		F/Y: 2076/77				
4.	Name of River System:	Bakraha Rive	r System	1							
5.	GPS Coordinate: E 87.6	722917 N 20	5.772006								
6.	Cost:- a)Estimated:										
Offic	e: 2000000( Including Co	ontingency)	User: 96630	.87	Others:	Total:	2096630				
	b) Actual Expenditure:										
Offic	ffice:         1663304         User:         96630.87         Others:         Total:         1759934										
7.	• To improve gully catchments to reduce and regulate the run off rates.										
	To conserve/protect the settlement.										
8.	Conservation Measure     Gabion Checkdam and wall is constructed.										
	/ Technique applied:	• Barr	iboo plantatioi	n was don	e to control deb	ris flow and che	eck the surface				
0	Turn 1 - man and a dia m	eros	ion.		1	1					
9.	process:	User group approach. According to the agreement, the concerned user group purchased									
	process.	available									
10.	Gender/social	From the sel	ection of the a	activity to	implementation	of the work, w	omen were equally				
	consideration:	involved in t	he process.	2	L		1 2				
11.	Effect/impact:	To some ext	ent, the gully	/ landslide	e is controlled.						
12	Benefited HH	Total: 389	Dalit:	24	Janjati: 255	Madhesi:	Other:110				
13	Employment	350									
	Generated:										
14	Problem faced:	Lack of skill	ed manpower	and delay	in getting the r	naterial on time	cause delay in the				
		completion of	of the project.	The site b	eing on remote	area didn't get	access fast.				
15	Maintenance /	Structure rec	uires the regu	lar maint	enance and repa	irs if they get da	amaged. However,				
16	Sustainability:	maintenance	fund is not al	located fo	or the project bu	t will do when r	required.				
16	Lesson learned:	If user group are more involved, the implementation will be easier and would									
		user group is essential before real implementation of the activity									
17	Other:	User Group Name: Nunsari Khudi Kuenetar Bhitta Pahiro Galchi Roktham U.G.									
1,		Chair Person: Jewan Shrestha									
		Site Incharge	e: Ila Yadav								
		Unit Officer	Bhim Bahad	ur Kaliko	te						



1.	Name of Activity: Gabion Check dam, Bioengineering										
2.	Name of Program: Gully	and Landslide	Control								
3.	Location: Miklajung		Ward: 2	Place: N	Junsari			F/Y: 2076/77			
4.	Name of River System:	Bakraha River	System				I				
5.	GPS Coordinate: E 87.6	07291 N 26.7	71146								
6.	Cost:- a)Estimated:										
Offic	ffice: 2000000 (Including Contingency)User: 102043.73Others:Total: 2102043										
	b) Actual Expenditure:										
Offic	Office: 18,82,268         User: 102043         Others:         Total: 1984311										
7.	off rates.										
	To conserve/protect the settlement.										
8.	Conservation Measure • Gabion Checkdam and wall is constructed.										
	/ Technique applied:	Bamb	oo plantatio	n was dor	e to control	debris flow	and chec	ck the surface			
		erosio	n.								
9.	Implementation	User group ap	proach. Acc	ording to	the agreem	ent, the conc	erned use	er group purchased			
	process:	the gabion boxes, stone and bamboo and completed the work by using local manpower									
10	Condor/social	Erom the solo	tion of the	otivity to	implement	otion of the	vork wo	mon wore equally			
10.	consideration.	involved in the	e process		mplement		WOIK, WU	men were equally			
11	Effect/impact:	To some exter	nd the gully	/ landslid	e is control	led					
12	Benefited HH	Total: 107	Dalit:	20	Janjati:66	Mad	hesi:	Other:21			
13	Employment	350									
14	Broblem faced:	Look of skillo	1 monnouver	and data	in actting	the motorial	on time of	ouse delay in the			
14	r tobletil taceu.	completion of	the project	The site h	eing on rer	note area dic	ln't get a	ause delay ill die			
15	Maintenance /	Structure requ	ires the regu	lar maint	enance and	repairs if the	ev get dar	naged However			
10	Sustainability:	maintenance f	und is not al	located fo	or the project	t but will do	when re	quired.			
16	Lesson learned:	If user group a	are more inv	olved, the	e implement	ation will be	e easier ai	nd 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	** 11-							
		Unit Officer: l	3him Bahad	ur Kaliko	te						



1.	Name of Activity: Gabion Check dam, Bioengineering										
2.	Name of Program: Gully and Landslide Control										
3.	Location: Letang		Ward: 8	Place: Baby	ani		F/Y: 2076/77				
4.	Name of River System:	Bakraha Rive	r System	-							
5.	GPS Coordinate: E 87.5	6153 N 26.7	8873								
6.	Cost:- a)Estimated:										
Offic	e: 2000000 ( Including C	ontingency)	User: 10906	1.73	Others:	Total:	2109061				
	b) Actual Expenditure:										
Offic	ffice:1918248 User: 109061.73 Others: Total: 2027309										
7.	Objectives:         • To improve gully catchments to reduce and regulate the run off rates.										
	To conserve/protect the settlement.										
8.	Conservation Measure • Gabion Checkdam and wall is constructed.										
	/ Technique applied:	• Barr	boo plantation	n was done to	control debr	is flow and che	eck the surface				
		eros	ion.								
9.	Implementation	User group a	pproach. Acco	ording to the a	igreement, th	e concerned u	ser group purchased				
	process:	the gabion b	oxes, stone and	d bamboo and	l completed t	the work by us	ing local manpower				
10	Conder/social	available.	action of the a	ativity to imp	Inmantation	of the work w	oman wara aqually				
10.	consideration:	involved in t	be process	cuvity to mp	lementation	of the work, w	omen were equally				
11	Effect/impact:	To some ext	end the gully	/ landslide is (	controlled						
	Effect impact.	TO Some ext			controlled .	1					
12	Benefited HH	Total: 86	Dalit:	Janja	ati:86	Madhesi:	Other:				
13	Employment	350									
1.4	Generated:	<b>X</b> 1 C 1 11	1	1 1 1 .			1.1 1 .1				
14	Problem faced:	Lack of skill	ed manpower	and delay in g	getting the m	aterial on time	cause delay in the				
15	Maintananaa /	Completion of	of the project.	I he site being	g on remote a	rea didn't get	access fast.				
15	Sustainability:	Structure rec	fund is not all	located for the	ce and repair	s II they get up will do when r	anaged. nowever,				
16	Lesson learned:	If user group	are more inv	olved the imp	lementation	will be easier :	and would				
10	Lesson rearried.	successfully	complete the	work Awaren	less creation	empowermen	t 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	e: Ila Yadav								
		Unit Officer:	Bhim Bahadu	ur Kalikote							



1.	Name of Activity: Gabion Check dam, Bioengineering										
2.	Name of Program: Gully	and Landslid	le Control								
3.	Location: Letang		Ward: 8	Place:	Hokse		F	/Y: 2076/77			
4.	Name of River System:	Bakraha Rive	r System	1							
5.	GPS Coordinate: E 87.5.	5429 N 26.79	9991								
6.	Cost:- a)Estimated:										
Offic	e: 2000000 (Including C	ontingency)	User: 98692	.13	Other	's:	Total: 20	)98692			
	b) Actual Expenditure:										
Offic	e: 1892548	r	User: 98692	.13	Other	's:	Total: 19	91240			
7.	Objectives:	• To i	mprove gully	catchmer	nts to reduce	and regulat	e the run of	ff rates.			
	To conserve/protect the settlement.										
8.	Conservation Measure     Gabion Checkdam and wall is constructed.										
	/ Technique applied: • Bamboo plantation was done to control debris flow and check the surface										
	erosion.										
9.	Implementation User group approach. According to the agreement, the concerned user group purchased										
	process:	the gabion b	oxes, stone an	d bambo	o and compl	eted the wor	rk by using	local manpower			
10	Conden/accial	available.			····· 1 · ··· · · · · · ·						
10.	Gender/social	From the sel	the process	activity to	implementa	ation of the	work, wom	en were equally			
11	Effect/impact:	To some ext	end the gully	/ landelia	le is controll	ed					
11.	Effect/impact.										
12	Benefited HH	Total: 18	Dalit:	5	Janjati:13	Mad	lhesi:	Other:			
13	Employment	350									
	Generated:										
14	Problem faced:	Lack of skill	led manpower	and dela	y in getting f	the material	on time ca	use delay in the			
1.5		completion of	of the project.	The site	being on ren	note area dic	In't get acc	cess fast.			
15	Maintenance /	Structure rec	juires the regu	llar main	enance and i	repairs if the	ey get dama	aged. However,			
16	Sustainadinty.	Inamenance	ara mora inv	olved th	or the project	ation will be	when requ	linea.			
10	Lesson learned.	ii user group	complete the	work A	vareness cre	ation empo	verment ar	d mobilization of			
	user group is essential before real implementation of the activity										
17	Other: User Group Name: Hokse Pahiro Nivantran U.G.										
- /		Chair Person: Bishnu Kumar Limbu									
		Site Incharge	e: Ila Yadav								
		Unit Officer	: Bhim Bahad	ur Kaliko	ote						



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1.	Name of Activity: Gabion Checkdam										
2.	Name of Program: Gull	y and landsli	de control								
3.	Location: Chulachuli		Ward:	6 Place	: Aaseta	r Pahiro		F/Y: 2076/77			
4.	Name of River System:	Bakraha Rive	r System								
5.	GPS Coordinate: E	87.66259	Ν	26.81555							
6.	Cost:- a) Estimated										
Offic	e: 2000085.00 (With 4% c	contingency)	User: 255	5112.00		Others: 00.0	0 Total: 2	2255197.00			
	b) Actual Expenditure:										
Offic	e: 1923000	I	User: 311	476		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	Gabion chec	k dam 1s co	onstructed	•						
0	/ Technique applied:	TT	1 4	12	1	1	1	1 1			
9.	Implementation	User group approach. According to the agreement, the concerned user group purchased									
10	process:	the gabion b	oxes and s	tone then	complet	ted the work t	by using local	manpower available.			
10.	Gender/social	From the sel	ection of the	ie activity	to imple	ementation of	the work, wo	men were equally			
	consideration:	involved in t	ne process	•							
11.	Effect/impact:	To some ex	tent, the gu	lly/ landsl	lide is co	ntrolled.					
12	Benefited HH	Total: 160	Da	lit: 10	Janjat	i: 90	Madhesi:	Other: 60			
13	Employment	1191 Mds									
	Generated:										
14	Problem faced:	Unavailabili	ty of constr	ruction ma	aterials a	nd labors on t	time.				
15	Maintenance /	Structure rec	uires the r	egular mai	intenance	e and repairs	if they get dat	maged. However,			
	Sustainability:	maintenance	fund is no	t allocated	l for the	project but wi	ill do when re	quired.			
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 Niventran Upavokta Sammitee										
		Chair Persor	: Govinda	Magar	2	r					
		Site Incharge	e: Dinesh F	athak							
		Unit Officer	: Bhim Bał	nadur Kali	kote						





1.	Name of Activity: Gabion Checkdam, Bioengineering										
2.	Name of Program: River Bank Stablization Program										
3.	Location: Miklajung		Ward: 2	Place: Saka	re Khola		F/Y: 2076/77				
4.	Name of River System:	Bakraha Rive	r System								
5.	GPS Coordinate: E 87.6	55526 N 2	26.768065								
6.	Cost:- a)Estimated:										
Offic	e: 60,00,000 (Including Cor	ntingency)	User: 56575	1	Others:	Total: 6	6565751				
	b) Actual Expenditure:										
Offic	e: 50,09,444		User: 56575	1	Others:	Total: 5	575195				
7.	Objectives:	• Con	servation of ri	ver bank and	stabilization						
	To conserve and protect the settlement.										
8.	Conservation Measure	• Laur	nching, Toe-w	all, Revetmer	nt were constr	ructed on the ear	then embankment				
	/ Technique applied: on the side river.										
		Plan	tation was dor	ne on the slop	e of the earth	en embankment					
9.	Implementation	User group a	pproach. Acco	ording to the	agreement, th	e concerned use	r group purchased				
	process:	the gabion b	oxes, stone and	d bamboo an	d completed t	he work by usin	g local manpower				
		available.									
10.	Gender/social	From the sel	ection of the a	ctivity to imp	plementation of	of the work, wor	nen were equally				
	consideration:	involved in t	he process.								
11.	Effect/impact:	Protection o	f river bank ar	nd the village	side adjoinin	g the river bank					
12	Benefited HH	Total: 184	Dalit:1	10 Janj	ati:120	Madhesi:	Other:54				
13	Employment	900									
	Generated:										
14	Problem faced:	Availability	of materials or	n time.							
15	Maintenance /	No maintain	ance fund is th	ere but user	groups will ca	arry out the repair	irment and				
	Sustainability:	maintainance	e work as and	when require	d						
16	Lesson learned:	If user group	are more invo	olved, the imp	plementation	will be easier an	id would				
		successfully	complete the	work. Aware	ness creation,	empowerment a	and mobilization of				
		user group is	essential befo	ore real imple	mentation of	the activity.					
17	Other:	User Group Name: Sakhare Khola Pashim Nadi tatha Khola Kinara Sthirikaran									
		Byawasthapa	an U.G.	р :							
		Chair Person	: Sher Bahadu	ir Kai							
		Site Incharge	e: Ila Yadav								
		Unit Officer	в nim Banadı	ir Kalikote							



1.	Name of Activity: Gabion Checkdam, Bioengineering									
2.	Name of Program: River Bank Stablization Program									
3.	Location: MiklajungWard: 2Place: Sakare KholaF/Y: 2076/77									
4.	Name of River System: Bakraha River System									
5.	5. GPS Coordinate: E 87.655910 N 26.767518									
6.	6. Cost:- a)Estimated:									
Offic	e: 60,00,000 (Including Cor	ntingency)	User: 56575	1	Others:	Total:	6565751			
	b) Actual Expendi	ture:								
Offic	e: 5123000	•	User: 56575	1	Others:	Total:	5688751			
7.	Objectives:	Con	servation of ri	iver bank	and stabilization	1				
		• To c	conserve and p	protect the	settlement.					
8.	Conservation Measure	• Laur	nching, Toe-w	all, Revet	ment were cons	tructed on the e	earthen embankment			
	/ Technique applied:	on th	ne side river.							
		Plan	tation was dor	ne on the s	slope of the eart	hen embankme	nt.			
9.	Implementation	User group a	pproach. Acco	ording to t	the agreement, t	he concerned u	ser group purchased			
	process:	the gabion be	oxes, stone an	d bamboo	and completed	the work by us	ing local manpower			
		available.								
10.	Gender/social	From the sel	ection of the a	ctivity to	implementation	of the work, w	omen were equally			
	consideration:	involved in t	he process.							
11.	Effect/impact:	Protection o	f river bank a	nd the vill	age side by					
12	Benefited HH	Total: 211	Dalit:	16 J	anjati:130	Madhesi:	Other:65			
13	Employment	900	•							
	Generated:									
14	Problem faced:	Availability	of materials of	n time.						
15	Maintenance /	No maintaina	ance fund is th	here but us	ser groups will c	arry out the rep	pairment and			
	Sustainability:	maintainance	e work as and	when requ	uired					
16	Lesson learned:	If user group	are more invo	olved, the	implementation	will be easier	and would			
		successfully	complete the	work. Aw	areness creation	, empowermen	t and mobilization of			
		user group is	essential befo	ore real in	plementation of	f the activity.	~			
17	Other:	User Group	Name: School	Cheu Sal	chare Khola Nao	li tatha Khola F	Kinara Sthirikaran			
		Byawasthapa	an U.G.	1						
		Chair Person	: Azam Bahao	lur Rai						
		Site Incharge	E: IIa Yadav							
		Unit Officer:	Bhim Bahadi	ur Kalıkot	e					



1.	Name of Activity: Gabion Checkdam, Bioengineering										
2.	Name of Program: River Bank Stablization Program										
3.	Location: MiklajungWard: 2Place: Sakare KholaF/Y: 2076/77										
4.	Name of River System: Bakraha River System										
5.	5. GPS Coordinate: E 87.637831 N 26.779671										
6.	6. Cost:- a)Estimated:										
Office: 30,00,000 (Including Contingency)         User: 323572.92         Others:         Total: 3323572.92											
b) Actual Expenditure:											
Offic	e: 23,81,876		User: 32,35,	,72.92	Others:	Total: 2	705448.92				
7.	Objectives:	Cor	nservation of r	iver bank and	stabilization						
		• To	conserve and j	protect the set	lement.						
8.	Conservation Measure	• Lau	nching, Toe-w	vall, Revetmen	t were constr	ructed on the ear	then embankment				
	/ Technique applied:	on t	he side river.								
		Plar	ntation was do	ne on the slope	e of the earth	en embankment.					
9.	Implementation	User group a	approach. Acc	ording to the a	agreement, th	e concerned use	r group purchased				
	process:	the gabion b	oxes, stone ar	nd bamboo and	l completed t	he work by using	g local manpower				
		available.									
10.	Gender/social	From the sel	lection of the a	activity to imp	lementation of	of the work, wor	nen were equally				
	consideration:	involved in	the process.								
11.	Effect/impact:	Protection	of river bank a	nd the village	side by						
12	Benefited HH	Total: 153	Dalit:	13 Janja	ati:105	Madhesi:	Other:35				
13	Employment	600									
	Generated:										
14	Problem faced:	Availability	of materials o	on time.							
15	Maintenance /	No maintain	ance fund is t	here but user g	groups will ca	rry out the repai	irment and				
	Sustainability:	maintainanc	e work as and	when required	b						
16	Lesson learned:	If user group	p are more inv	olved, the imp	lementation	will be easier an	d would				
		successfully	complete the	work. Awaren	less creation,	empowerment a	and mobilization of				
		user group is	s essential bef	ore real imple	mentation of	the activity.					
17	Other:	User Group	Name: Sakhar	re Khola Purw	a Nadi tatha	Khola Kinara St	hirikaran				
		Byawasthap	an U.G.								
		Chair Person	n: Deu Prakas	h Rai							
		Site Incharg	e: Ila Yadav	<b>T7</b> 111							
		Unit Officer	: Bhim Bahad	ur Kalıkote							



1.	Name of Activity: Pond Construction with Spillway										
2.	Name of Program: Grou	nd Water Rec	harge and Util	ization of Surf	face water						
3.	Location: Miklajung		Ward: 6	Place: Kalida	aha		F/Y: 2076/77				
4.	Name of River System: Bakraha River System										
5.	GPS Coordinate: E 87.6	333235 N 2	6. 747456								
6.	6. Cost:- a)Estimated:										
Offic	Office:         1500000 (Including Contingency)         User:         156295.37         Others:         Total:         1596295.37										
	b) Actual Expendit										
Offic	e: 140000		User: 15629	5.37	Others:	Total:	1596295.37				
7.	Objectives:	• Gro	und water recl	narge							
8.	Conservation Measure	• Rec	harge pond wa	as constructed	to hold water	as well as to	percolate it down into				
	/ Technique applied:	the	ground water s	system. At one	e end of the sp	pectrum of the	e pond, was built with				
		heav	y masonry an	d concrete lini	ng, and at the	e other ends an	e those simple dugout				
		type	s without any	lining. Infiltra	tion can take	place from th	e sides and bottoms of				
0	T 1 4 4	the	oonds.	11	1	1	1 1				
9.	Implementation	User group a	approach. Acc	ording to the a	igreement, the	e concerned us	ser group purchased				
	process:	the gabion b	oxes, stone an	a bamboo and	completed th	ie work by us	ing local manpower				
10	Gender/social	From the sel	ection of the	etivity to impl	lementation o	f the work w	omen were equally				
10.	consideration.	involved in the process									
11.	Effect/impact:	Ponds are ar	appropriate a	nd practical m	eans of estab	lishing such a	system for collection				
	r	and storing	water or in oth	er words for re	eplenishing th	ie "water towe	er". The pond has				
		served a nur	nber of other p	ourposes like n	naintaining so	oil moisture fo	or the growth of				
		shallow root	ed vegetation,	enhancing nat	tural rates of	groundwater 1	recharge and low cost				
		method of a	ugmenting gro	oundwater sour	ces.						
12	Benefited HH	Total: 101	Dalit:	11 Janja	ti:70	Madhesi:	Other:20				
13	Employment	200									
	Generated:										
14	Problem faced:	Lack of skill	led manpower	and delay in g	getting the ma	terial on time	cause delay in the				
15	Maintananaa /	completion of	of the project.	1		f the arrest of	magad Hamanan				
15	Sustainability:	Structure red	function for the second	lar maintenand	ce and repairs	s il they get da	amaged. However,				
16	Justalliability.	Inamenance	are more inv	olved the imp	lementation v	vill be easier (	equiled.				
10		successfully	complete the	work Awaren	ess creation	empowerment	t and mobilization of				
		user group is	s essential bef	ore real impler	nentation of t	he activity.					
17	Other:	User Group	Name: Kalida	aha Simsar Sa	nrakchan Ja	l Puran Bha	ran U.G.				
		Chair Person	n: Chun Kuma	ri Kafle							
		Site Incharg	e: Ila Yadav								
		Unit Officer	: Bhim Bahad	ur Kalikote							



1.	Name of Activity: Pond Construction with Spillway										
2.	Name of Program: Grou	nd Water Recl	narge and Util	ization of Sur	face water						
3.	Location: Miklajung		Ward: 6	Place: Betin	ni		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:										
Offic	Office: 1760000 (Including Contingency)User: 196321.21Others:Total: 1956321.20										
	b) Actual Expenditure:										
Offic	e: 15,81,064		User: 19632	1.21	Others:	Total:	1777385				
7.	Objectives:	Grou	und water rech	narge							
8.	<b>Conservation Measure</b>	Recl	narge pond wa	as constructed	to hold water	as well as to	percolate it down into				
	/ Technique applied:	the g	ground water s	system. pond	was built with	h heavy mason	ry and concrete				
		linin	g, and at the c	other ends are	those simple	dugout types v	without any lining.				
		Infil	tration can tak	te place from t	he sides and	bottoms of the	ponds.				
9.	Implementation	User group a	pproach. Acc	ording to the a	greement, the	e concerned us	ser group purchased				
	process:	the gabion b	oxes, stone an	d bamboo and	completed th	ne work by usi	ng local manpower				
	~	available.			<del></del>						
10.	Gender/social	From the sel	From the selection of the activity to implementation of the work, women were equally								
	consideration:	involved in t	he process.	1 0 1							
11.	Effect/impact:	The pond ha	s served a nur	nber of other p	ourposes like	maintaining so	oil moisture for the				
		growth of sh	allow rooted v	vegetation, enf	nancing natur	al rates of grou	undwater recharge and				
10	Depetited IIII	Total: 62	nod of augme	7 Ionio	valer sources.	Madhaai	Othory 45				
12		10111:05	Dant:	/ Jalija	ul:11	Madnes1:	Other:45				
15	Comprotedu	200									
14	Denerateu. Droblom facad:	Look of skill	ad mannayor	and dolow in a	atting the me	tarial on time	cause delay in the				
14	i iobicili iaceu.	completion (	of the project	and delay in g	getting the ma	iterial on time	cause delay in the				
15	Maintenance /	Structure rec	mires the regu	lar maintenan	ce and repairs	s if they get da	maged However				
10	Sustainability.	maintenance	fund is not al	located for the	e project but y	vill do when re	equired				
16	Lesson learned:	If user group	are more inv	olved, the imp	lementation v	will be easier a	and would				
10	Lesson rearried.	successfully	complete the	work. Awaren	ess creation.	empowerment	and mobilization of				
		user group is	essential befo	ore real impler	nentation of t	the activity.					
17	Other:	User Group	Name: Betini	Simsar Sanra	akchan Jal P	uran Bharan	U.G.				
		Chair Person	: Dilli Khadka	a							
		Site Incharge	e: Ila Yadav								
		Unit Officer	Bhim Bahad	ur Kalikote							



1.	Name of Activity:										
2.	Name of Program: Grou	nd Water Recl	narge and Util	ization of Sur	face water						
3.	Location: Miklajung		Ward: 6	Place: Janja	ti	F/1	Y: 2076/77				
4.	Name of River System:	Bakraha Rive	r System			·					
5.	GPS Coordinate: E 87.630364 N 26. 750804										
6.	6. Cost:- a)Estimated:										
Offic	e: 840000 (Including Cor	Total: 980	)391								
	b) Actual Expendi	ture:			•	·					
Offic	e: 751468		User: 93068	.59	Others:	Total: 844	536				
7.	Objectives:	Grou	and water rech	narge							
8.	Conservation Measure	Recl	narge pond wa	as constructed	to hold water	as well as to perc	olate it down into				
	/ Technique applied:	the g	ground water s	system. pond	was built with	n heavy masonry a	nd concrete				
		linin	g, and at the c	other ends are	those simple	dugout types with	out any lining.				
		Infil	tration can tak	ke place from t	he sides and	bottoms of the por	nds				
9.	Implementation	User group a	pproach. Acc	ording to the a	greement, the	e concerned user g	roup purchased				
	process:	the gabion b	oxes, stone an	d bamboo and	completed th	ne work by using l	ocal manpower				
		available.									
10.	Gender/social	From the sel	ection of the a	activity to imp	lementation of	f the work, women	n were equally				
	consideration:	involved in t	involved in the process.								
11.	Effect/impact:	Ponds are an	appropriate a	and practical m	neans of estab	lishing such a syst	tem for collection				
		and storing v	vater or in oth	er words for r	eplenishing th	ne "water tower". 7	The pond has				
		served a nun	iber of other p	ourposes like r	naintaining so	oil moisture for the	e growth of				
		shallow root	ed vegetation,	enhancing na	tural rates of	groundwater recha	arge and low cost				
		method of au	igmenting gro	oundwater sour	rces.						
12	Benefited HH	Total: 35	Dalit:	5 Janja	ti:27	Madhesi:	Other:3				
13	Employment	200									
	Generated:										
14	Problem faced:	Lack of skill	ed manpower	and delay in g	getting the ma	terial on time caus	se delay in the				
		completion of	of the project.				1 **				
15	Maintenance /	Structure rec	uires the regu	lar maintenan	ce and repairs	s if they get damag	ged. However,				
	Sustainability:	maintenance	fund is not al	located for the	e project but v	vill do when requi	red.				
16	Lesson learned:	If user group	are more inv	olved, the imp	lementation v	will be easier and y	would				
		successfully	complete the	work. Awaren	less creation,	empowerment and	mobilization of				
17	0.1	user group is	essential before	ore real implei	nentation of t	the activity.					
1/	Otner:	User Group	Name: Janjat	i Devitnan Si	msar Sanrak	icnan Jai Puran F	snaran U.G.				
		Chair Person	i: Gyan Mahai	rjan							
		Site incharge	: Ha Yadav								
1		Unit Officer	. вhim Bahad	ur Kalikote							



1.	Name of Activity:											
2.	Name of Program: Grou	nd Water Rec	harge and Util	lization	of Surf	ace water						
3.	Location: MiklajungWard: 3Place: KiratesworF/Y: 2076/77											
4.	Name of River System: Bakraha River System											
5.	GPS Coordinate: E 87.624328 N 26. 769580											
6.	.   Cost:- a)Estimated:											
Offic	Office: 150000 (Including Contingency)User: 75714.04Others:Total: 1512230.57											
	b) Actual Expenditure:											
Offic	e: 1224373.7		User: 75714	.04		Others:	Total:	1300	087.7			
7.	Objectives:	Grou	und water recl	narge								
8.	Conservation Measure	Recl	harge pond wa	as constr	ructed	to hold wate	er as well as to	percol	late it down into			
	/ Technique applied:	the g	ground water s	system.	pond v	was built wi	th heavy masor	nry an	d concrete			
		linin	ig, and at the o	other en	ds are t	hose simple	e dugout types	withou	ut any lining.			
	<b>x</b> 1 1	Infil	tration can tal	<u>ke place</u>	from t	he sides and	l bottoms of the	e pond	ls i i			
9.	Implementation	User group a	pproach. Acc	ording t	the a	greement, t	he concerned u	ser gro	oup purchased			
	process:	the gabion b	oxes, stone an	id bamb	oo and	completed	the work by us	ing lo	cal manpower			
10	Candar/agaial	available.	available.									
10.	consideration:	involved in t	be process	activity	to impi	ementation	of the work, w	omen	were equally			
11	Effect/impact:	The pond ha	s served a nur	nber of	other n	urnoses like	e maintaining s	oil m	pisture for the			
11.	Lifeet/impact.	growth of sh	allow rooted	noer or vegetati	on enh	ancing nati	ral rates of gro	undw	ater recharge and			
		low cost met	hod of augme	enting gr	oundw	ater source	S.	una	ator reenarge and			
12	Benefited HH	Total: 572	Dalit:	111	Janja	ti:251	Madhesi:		Other:210			
13	Employment	200										
	Generated:											
14	Problem faced:	Lack of skill	ed manpower	and del	ay in g	etting the n	naterial on time	cause	e delay in the			
		completion of	of the project.		• •	U U			·			
15	Maintenance /	Structure rec	juires the regu	ılar maiı	ntenanc	ce and repai	rs if they get da	amage	ed. However,			
	Sustainability:	maintenance	fund is not al	located	for the	project but	will do when r	equire	ed.			
16	Lesson learned:	If user group	are more inv	olved, t	he imp	lementation	will be easier a	and w	ould			
		successfully	complete the	work. A	waren	ess creation	, empowermen	t and	mobilization of			
		user group is	s essential bef	ore real	implen	nentation of	the activity.					
17	Other:	User Group	Name: Kirate	esowr H	langsa	m Manghir	n U.G.					
		Chair Persor	i: Surkra Daw	aj Limb	u							
		Site Incharge	e: Ila Yadav									
		Unit Ufficer	: Bhim Bahad	ur Kalik	tote							



1.	Name of Activity:										
2.	Name of Program: Grou	nd Water Rec	harge and Util	lization of Sur	face water						
3.	Location: Miklajung		Ward: 2	Place: Sakl	nare siran		F/Y: 2076/77				
4.	Name of River System: Bakraha River System										
5.	GPS Coordinate: E 87.63120 N 26. 78234										
6.	6. Cost:- a)Estimated:										
Offic	Office: 465284.86 (Including Contingency) User: 23499.24 Others: Total: 469984.71										
	b) Actual Expenditure:										
Offic	e: 431567.74		User: 23499	.24	Others:	Total: 4	455066.76				
7.	Objectives:	Group	und water recl	harge							
8.	Conservation Measure / Technique applied:	• Recl the g	harge pond wa ground water a ground at the o	as constructed system. pond other ends are	to hold wate was built wi those simple	er as well as to p th heavy mason e dugout types w	bercolate it down into ry and concrete without any lining				
		Infil	tration can tal	ke place from	the sides and	bottoms of the	ponds				
9.	Implementation	User group a	approach. Acc	ording to the	agreement, tl	ne concerned us	er group purchased				
	process:	the gabion b	oxes, stone ar	id bamboo and	d completed	the work by usin	ng local manpower				
		available.									
10.	Gender/social	From the sel	ection of the a	activity to imp	lementation	of the work, wo	omen were equally				
	consideration:	involved in t	he process.								
11.	Effect/impact:	The pond ha	s served a nui	mber of other	purposes like	e maintaining so	il moisture for the				
		growth of sh	allow rooted	vegetation, en	hancing natu	ral rates of grou	indwater recharge and				
10	Demofite d IIII	Total: 164	nod of augme	25 Jani	water sources	S.	Oth any 4				
12	Employment	10tal: 104	Dant:	25 Janj	ati:135	Madnes1:	Other:4				
15	Generated:	80									
14	Problem faced:	Lack of skill completion of	ed manpower	and delay in	getting the m	aterial on time	cause delay in the				
15	Maintenance /	Structure rec	uires the regu	ılar maintenar	nce and repair	rs if they get da	maged. However,				
	Sustainability:	maintenance	fund is not al	llocated for th	e project but	will do when re	equired.				
16	Lesson learned:	If user group	are more inv	olved, the imp	olementation	will be easier a	nd would				
		successfully	complete the	work. Awaren	ness creation	, empowerment	and mobilization of				
		user group is	s essential bef	ore real imple	mentation of	the activity					
17	Other:	User Group	Name: Sakha	re Siran Kuv	vapani Pokh	ari Niraman	U.G.				
		Chair Persor	n: Dew Raj Ra	ni							
		Site Incharge	e: Ila Yadav	** 11-							
		Unit Officer	: Bhim Bahad	ur 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: SunbarsiWard: 1Place: Dans khola kinarF/Y: 2076/77										
4.	Name of River System: Bakraha River System										
5.	GPS Coordinate: E 87 <sup>0</sup> 34'24" N 26 <sup>0</sup> 36'16"										
6.	6. Cost:- a)Estimated:										
Offic	Office: 2.62,334(Including Contingency) User: 8860 Others: Total: 272334										
	b) Actual Expenditure:										
Offic	e: 2,62,334		User: 8860		Others:	Total: 2	272334				
7.	Objectives:	Stab	vilization of riv	ver bank							
8.	Conservation Measure • Plantation on the river bank										
9.	Implementation process:	mentation 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 sel	From the selection of the activity to implementation of the work, women were equally involved in the process								
11.	Effect/impact:	River bank s	abilization								
12	Benefited HH	Total: 150	Dalit:	60 Jar	jati:40	Madhesi:	Other:50				
13	Employment	35				-					
	Generated:										
14	Problem faced:	Rainy season	n cause delay	in the compl	etion of the pr	oject.					
15	Maintenance /	The regular	maintenance a	and if they ge	et damaged. He	owever, mainter	nance fund is not				
	Sustainability:	allocated for	the project bu	ut will do wh	en required.						
16	Lesson learned:	If user group	o are more inv	olved, the in	plementation	will be easier a	nd would				
		successfully	complete the	work. Awar	eness creation,	empowerment	and mobilization of				
		user group is	s essential bef	ore real impl	ementation of	the activity					
17	Other:	User Group	Name: Shree	Dans Khola	kirana Briks	hyaropan sanr	rakshan samiiti				
		Chair Person	n: Jay Bahadu	r shrestha							
		Site Incharg	e: Ila Yadav	** 111							
		Unit Officer	: Bhim Bahad	ur Kalikote							





1.	Name of Activity: Annual Fruit Plantation on slope area									
2.	Name of Program: Biannual Crops (fruit) Plantation on slope area									
3.	Location: MiklajungWard: 1Place: HattimaraF/Y: 2076/77									
4.	Name of River System: Bakraha River System									
5.	GPS Coordinate: E87 <sup>0</sup> 63'49.16" N26 <sup>0</sup> 45'3.08"									
6.	5. Cost:- a)Estimated:									
Offic	e: 1,92,000( Including Co	ontingency)	User: 8000		Others:	Total:	200000			
	b) Actual Expendit	ture:	•							
Offic	e: 1,92,000		User: 8000		Others:	Total: 2	200000			
7.	Objectives:	• Live	elihood upgrad	ling						
8.	Conservation Measure / Technique applied:	• Plan	Plantation of fruit plants on slope area							
9.	Implementation process:	User group a the plants an	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	From the sel	ection of the a	activity to in	mplementation of	of the work, wo	men were equally			
	consideration:	involved in t	the process.							
11.	Effect/impact:	Livelihood u	plifrment and	l slope stabi	lization					
12	Benefited HH	Total: 300	Dalit:	30 Ja	injati:150	Madhesi:	Other:120			
13	Employment	35								
	Generated:									
14	Problem faced:	Rainy season	n cause delay	in the comp	pletion of the pro	oject.				
15	Maintenance /	The regular	maintenance a	and if they g	get damaged. Ho	owever, mainter	nance fund is not			
	Sustainability:	allocated for	the project b	ut will do w	hen required.					
16	Lesson learned:	If user group	o are more inv	olved, the i	mplementation	will be easier a	nd would			
		successfully	complete the	work. Awa	reness creation,	empowerment	and mobilization of			
17	Othern	User group is	S essential ber	ore real imp	Former LLC	the activity				
1/	Ouler:	Chair Person	iname: <b>Koell</b>	dol	y rorest U.G.					
		Site Incharge	e Nirai Dahal							
		Unit Officer	· Bhim Bahad	ur Kalikote	1					





## **BALAN RIVER SYSTEM**
1	Name of Program: Gully, Landslide and Torrent Control								
2	Name of Activity	: Gabion Work							
3	Location: Udayap	ourgadhi R. Municipalit	У	Ward: 07	Place: Hade	ebaans	F/Y: 2076/077		
4	Name of River S	ystem: Balan River Syst	tem						
5	GPS Coordinate:	X: 26	.78617	Y: 86.84	1555				
6	Cost:- a) Estimate	ed:							
Office:	2000000	User: 26	6579.29	Other	rs:	Total	: 2266579.29		
	b) Actual Expe	enditure:		1		1			
Office:	1973760	User: 26	6579.29	Other	rs:	Total	: 2240339.29		
7	Objectives:	<ul><li>To improve gully car</li><li>To control the existing</li></ul>	<ul><li>To improve gully catchments to reduce and regulate the run off rates.</li><li>To control the existing landslide and protect devitthanmandir and other properties.</li></ul>						
8	Conservation Measure / Technique applied:	• Gabion Check dam a	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 g point is solved.	ully/ landslic	le is controll	led and the pro	blem of road blo	ockade at the		
12	Benefited HH	Total: 63	Dalit: 8	Janja	ti: 35	Madhesi: 0	Other: 20		
13	Employment Generated:			450	Md.				
14	Problem faced:	Shortage of skilled lab	or was one o	of the factors	s causing delay	in the completi	on of the project.		
15	Maintenance /	Structures require regu	ılar maintena	ance and rep	airs if they get	damaged. How	ever,		
15	Sustainability:	maintenance fund is n	ot allocated f	for the project	ct but will do v	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.							
		User Group Name:	Balan Nadi	Galchhi Pa	hiro Niyantran	UC, Block 1			
17	Others	Chair Person:	Ganesh Pra	shad Dahal	-				
1/	Otner:	Site Incharge:	Anil Kuma	r Chaudhary	1				
		Unit Officer:	Bhim Baha	dur Kalikot	e				





1	1 Name of Program: Gully, Landslide and Torrent Control								
2	Name of Activity	: Gabion Work							
3	Location: Udayar	ourgadhi R. Municipal	ity	Ward: 07	Place: Hadebaa	ans F	/Y: 2076/077		
4	Name of River S	ystem: Balan River Sys	stem						
5	GPS Coordinate:	X:	26.84277	Y: 86.54947					
6	Cost:- a) Estimate	ed:							
Office:	200000	User:	266579.29	Others:		Total:	2266579.29		
	b) Actual Expe	enditure:							
Office:	1973760	User:	266579.29	Others:		Total:	2240339.29		
7	Objectives:	<ul><li>To improve gully ca</li><li>To control the exist</li></ul>	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:	Gabion Check dam	Gabion Check dam and wall is constructed along the gullies and landslide.						
9	Implementation process:	User group approach gabion boxes, stone a	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 point is solved.	gully/ landslide	is controlled an	d the problem of	road bloc	kade at the		
12	Benefited HH	Total: 63	Dalit: 8	Janjati: 35	Madh	esi: 0	Other: 20		
13	Employment Generated:			450 Md.					
14	Problem faced:	Shortage of skilled la	bor was one of	the factors caus	ing delay in the co	ompletion	of the project.		
15	Maintenance / Sustainability:	Budget was very low allocated and other su existing structure sus	as compared to apporting struct tainable.	o severity of land ures are need to	Islide. More budg be made to contro	et is need ol landslig	led to be de and make		
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							
		User Group Name:	Balan Nadi Ga	alchhi Pahiro Ni	yantran UC, Bloc	k 2			
		Chair Person:	Megh Bahadu	r Karki					
17	Other:	Site In charge:	Anil Kumar C	haudhary					
		Unit Officer:	Bhim Bahadu	Kalikote					

# ONGOING





1	Name of Program	n: Gully, Landslide	and Torrent Contr	ol				
2	Name of Activity	: Gabion Work, Ba	amboo Plantation					
3	Location: Udaya	purgadhi R.M. War	rd: 06 Place: Kr	ishna Dharwe, Solidh	unga	F/Y: 2076/077		
4	Name of River S	ystem: Balan River Sys	stem					
5	GPS Coordinate:	X: 26.8	34919 Y	86.52398				
6	Cost:- a) Estimate	ed:						
Office:	2000000	User: 272	870.29	Others:	Total:	2272870.29		
	b) Actual Expe	enditure:						
Office:	1910024	User: 272	870.29	Others:	Total:	2182894.29		
7	Objectives:	<ul> <li>To improve gully catchments to reduce and regulate the run off rates.</li> <li>To control the existing landslide through bio-engineering process.</li> </ul>						
8	Conservation Measure / Technique applied:	<ul> <li>onservation</li> <li>easure /</li> <li>chnique</li> <li>plied:</li> <li>Gabion Check dam and wall is constructed along the gullies and landslide.</li> <li>Bamboo plantation was done to control debris flow and check the surface erosion.</li> </ul>						
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 involved in the proce	the activity to impss.	elementation of the wo	ork, women were	e equally		
11	Effect/impact:	To some extent, the	gully/ landslide is	controlled and structu	res 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 la	bor was one of the	factors causing delay	in the completion	on of the project.		
15	Maintenance / Sustainability:	Structures require reg maintenance fund is	gular maintenance not allocated for th	and repairs if they get e project but will do v	damaged. Howe	ever,		
16	Lesson learned:	Physical engineering benefits in long run.	structure is crucia	for immediate contro	ol while bio engi	neering provides		
		User Group Name:	Rupani Khola K	nahare Niyantran UC				
17	Other	Chair Person:	Jiwankala Tama	ng				
1/	Ouler.	Site In charge:	Anil Kumar Cha	udhary				
		Unit Officer:	Bhim Bahadur K	alikote				

1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity	: Gab	ion Work, Ba	mboo Pl	antation					
3	Location: Udaya	ourgadhi	R.M. Wa	rd: 06	Place: 1	Naagbeli, Dhungre		F/Y: 2076/077		
4	Name of River S	ystem: B	alan River Sy	vstem						
5	GPS Coordinate:		X: 26.	84230	Y:	86.52034				
6	Cost:- a) Estimate	ed:								
Office:	2000000		User: 272	2870.29		Others:	Tota	1: 2272870.29		
	b) Actual Expe	enditure:								
Office:	2322252		User:16357	9.55		Others:	Tota	1: 2485832		
7	Objectives	• To im	prove gully o	atchmen	ts to reduce	and regulate the run	off rates.			
/	Objectives.	• To control the existing landslide through bio-engineering process.								
	Conservation									
0	Measure /	Gabic	Gabion Check dam and wall is constructed on base of landslide and other small gullies.							
0	Technique	• Bamb	oo plantatior	was don	ne to control	debris flow and chee	ck the surface	erosion.		
	applied:									
0	Implementation	User gr	Jser group approach. According to the agreement, the concerned user group purchased the							
9	process:	gabion	gabion boxes, stone and bamboo and completed the work by using local manpower available.							
10	Gender/social	From th	ne selection of	f the acti	vity to impl	ementation of the wo	ork, women we	re equally		
10	consideration:	involve	d in the proc	ess.						
11	Effect/impact:	To son	ne extent, the	gully/ la	ndslide is co	ontrolled and debris t	flow has been	educed.		
12	Benefited HH	Total: 4	42	Dal	it: 5	Janjati: 30	Madhesi: 0	Other: 7		
12	Employment					420 Md				
15	Generated:					420 Mu.				
14	Problem faced:	Covid 1	9 and lockdo	own caus	ed delay in t	imely payment of th	e work.			
15	Maintenance /	Structu	res require re	gular ma	intenance ar	nd repairs if they get	damaged. How	vever,		
15	Sustainability:	mainter	nance fund is	not alloc	cated for the	project but will do v	when required.			
16	Lasson lasmad	Physica	l engineering	g structur	e is crucial f	for immediate contro	l while bio en	gineering provides		
10	Lesson learneu.	benefits	s in long run.							
		User G	roup Name:	Naagb	elidhunge P	ahiro Niyantran UC				
17	Other	Chair P	Person:	Nir Ba	ahadur Maga	ır				
1/	Other:	Site In	charge:	Anil K	Lumar Chau	dhary				
		Unit Of	fficer:	Bhim	Bahadur Ka	likote				

1	Name of Program	n: Gully, Landslide	and Torrent Control	ol									
2	Name of Activity	: Gabion Work, Ba	mboo Plantation	-									
3	Location: Triyuga	a Municipality	Ward: 04	Place: Lalpatta		F/Y: 2076/077							
4	Name of River S	ystem: Balan River Sy	stem										
5	GPS Coordinate:	X: 26	78055 Y:	86.57535									
6	Cost:- a) Estimate	ed:											
Office:	200000	User: 256	581.28	Others:	Total	2256581.28							
	b) Actual Expe	enditure:											
Office:	1911052	User: 25058	1.28	Others:	Total	2161633.28							
7	Objectives	• To improve gully c	atchments to reduc	e and regulate the run	n off rates.								
/	Objectives.	• To control the exist	ting landslide throu	gh bio-engineering p	rocess.								
	Conservation												
8	Measure /	Gabion Check dam	Gabion Check dam and wall is constructed on the gully										
0	Technique		and wan is constit	cted on the guny.									
	applied:												
9	Implementation	User group approach	n. According to the	e agreement, the con	cerned user grou	up purchased the							
	process:	gabion boxes, bambo	gabion boxes, bamboo and stone and completed the work by using local manpower available.										
10	Gender/social	From the selection of the activity to implementation of the work, women were equally											
10	consideration:	involved in the proce	ess.										
11	Effect/impact:	To some extent, the	gully/ landslide is	controlled and the ro	ad at the point h	as become stable							
		compared to previou	s years.	T									
12	Benefited HH	Total: 76	Dalit: 14	Janjati: 7	Madhesi: 0	Other: 55							
13	Employment			420 Md.									
	Generated:												
14	Problem faced:	Covid 19 and lockdo	wn caused delay in	timely payment of t	he work.								
15	Maintenance /	Structures require re	gular maintenance	and repairs if they ge	t damaged. How	ever,							
	Sustainability:	maintenance fund is	not allocated for th	e project but will do	when required.								
		A gully develops in	three distinct stag	es; waterfall erosion	channel erosion	n along the gully							
16	Lesson learned:	bed; and landslide er	osion on gully ban	s. Correct gully con	trol measures mu	ist be determined							
		according to these de	evelopment stages.	Once gullies have be	egun to form, ho	wever, they must							
17	0.1	be treated as soon as	possible, to minim	ze further damage a	nd restore stabilit	y.							
17	Other:	User Group Name:	Lalpatta Khola G	alchhi Nadi Niyantra	n UC								
		Chair Person:	Powan Kumar Th	apa									
		Site In charge:	Anil Kumar Chau	dhary									
		Unit Officer:	Bhim Bahadur Ka	likote		Unit Officer: Bhim Bahadur Kalikote							

## ONGOING





1	Name of Program	n: Gu	lly, Landslid	de an	d Torrent C	Contro	ol			
2	Name of Activity	r: Ga	bion Wall a	nd Ba	amboo Plan	tatio	1			
3	Location: Dhanga	adhimail	Mun.	1	Ward: 14	Pla	ce: Jamuntaar	F/Y: 2	076/077	
4	Name of River S	ystem: B	alan River S	Syste	em			<u>.</u>		
5	GPS Coordinate:		X:	26.	86519	Y:	86.13580			
6	Cost:- a) Estimate	ed:								
Office:	2000000		User:	144	264.20		Others:	Total:	2144264.20	
	b) Actual Expe	enditure								
Office:	1973760		User: 1442	264.2	0		Others:	Total:	2118024.2	
7	Objectives	• To in	nprove gully	/ cato	chments to r	educ	e and regulate the ru	n off rates.		
/	• To control the existing landslide through bio-engineering process.									
	Conservation									
8	Measure /	• Gabi	Gabion Check dam and wall is constructed on the gully.							
0	Technique	• Baml	000 plantatio	on w	as done to c	contro	l debris flow and ch	eck the surface	erosion.	
	applied:									
0	Implementation	User g	User group approach. According to the agreement, the concerned user group purchased the							
9	process:	gabion	boxes, ston	e and	d bamboo a	nd co	mpleted the work by	using local man	npower available.	
10	Gender/social	From	the selectio	n of	the activit	ty to	implementation of	the work, wor	nen were equally	
10	consideration:	involv	ed in the pro	ocess	•					
11	Effect/impact:	To so	me extent, tl	he gu	lly/ landsli	de is o	controlled.			
12	Benefited HH	Total:	152		Dalit: 2		Janjati: 150	Madhesi: 0	Other:	
12	Employment						450 Md			
15	Generated:						450 Mu.			
14	Problem faced:	Shorta	ge of skilled	l labo	or was one of	of the	factors causing dela	y in the complet	tion of the project.	
15	Maintenance /	Structu	ares require	e reg	gular main	tenar	nce and repairs if	they get dan	naged. However,	
15	Sustainability:	mainte	nance fund	is no	t allocated f	for th	e project but will do	when required.		
16	Lasson learned	Physic	al engineeri	ng st	ructure is c	rucial	for immediate contra	ol while bio eng	gineering provides	
10	Lesson learned.	benefit	s in long ru	n.						
		User C	broup Name	: 1	Khutti Khol	la Gal	chhi Pahiro Niyantra	an UC		
17	Other	Chair I	Person:	]	Bal Bahadu	r Tan	nang			
1/	Other:	Site In	charge:		Anil Kumar	Cha	ıdhary			
		Unit O	officer:	]	Bhim Bahao	dur K	alikote			

1	Name of Program	n: Gully, Landslide	and Torrent Control	[					
2	Name of Activity	: Gabion Wall and	Bamboo Plantation						
3	Location: Dhanga	adhimai Municipality	Ward: 14	Place: Jamuntaar, C	hhesiKhola	F/Y: 2076/077			
4	Name of River S	ystem: Balan River Sys	tem						
5	GPS Coordinate:	X: 26.8	7144 Y:	86.43742					
6	Cost:- a) Estimate	ed:							
Office:	2000000	User: 2710	075.9	Others:	Total:2	271075.9			
	b) Actual Expe	enditure:							
Office:	: 1589288 User: 224383.46 Others: Total: 1813671.46								
7	Objectives:	<ul><li>To improve gully ca</li><li>To control the existi</li></ul>	tchments to reduce ng landslide throug	and regulate the run h bio-engineering pr	off rates.				
	Conservation								
0	Measure /	•Gabion Check dam a	Gabion Check dam and wall is constructed on the gully.						
0	Technique	Bamboo plantation	Bamboo plantation was done to control debris flow and check the surface erosion.						
	applied:								
9	Implementation	User group approach	ser group approach. According to the agreement, the concerned user group purchased the						
)	process:	gabion boxes, stone a	gabion boxes, stone and bamboo and completed the work by using local manpower available.						
10	Gender/social	From the selection of	of the activity to i	implementation of t	the work, wome	n were equally			
10	consideration:	involved in the proces	SS.						
11	Effect/impact:	To some extent, the	gully/ landslide is	controlled and the	problem of road	blockade at the			
10		point is solved.							
12	Benefited HH	Total: 155	Dalit: 13	Janjati: 155	Madhesi: 0	Other:			
13	Employment			320 Md.					
	Generated:								
14	Problem faced:	Shortage of skilled la	bor was one of the f	actors causing delay	in the completio	n of the project.			
15	Maintenance /	Structures require r	egular maintenanc	e and repairs if	they get dama	ged. However,			
	Sustainability:	maintenance fund is r	ot allocated for the	project but will do v	when required.	,			
16	Lesson learned:	Physical engineering	structure is crucial	for immediate contro	ol while bio engin	eering provides			
		benefits in long run.		11'D1' N' (	UC				
		User Group Name:	Knutti Khola Gale	enni Pahiro Niyantra	nUC				
17	Other:	Chair Person:	Laldhowj Tamang						
		Site In charge:	Anil Kumar Chau	dhary					
		Unit Officer:	Bhim Bahadur Ka	likote					



1									
1	Name of Program	i: Guily, Landslide	and Forrent Contr						
2	Name of Activity	: Gabion Wall and	Bamboo Plantatio	n					
3	Location: Dhanga	adhimai Municipality	Ward: 14	Place: SarreAmbaas		F/Y: 2076/077			
4	Name of River S	ystem: Balan River Sys	tem						
5	GPS Coordinate:	X: 26.85	5713 Y:	86.41133					
6	Cost:- a) Estimate	ed:							
Office:	2000000	User: 1370	58.98	Others:	Tota	1: 2137058.98			
	b) Actual Expe	enditure:							
Office:	1973760	User: 137058	.98	Others:	Tota	1: 2110818.98			
7	Objectives:	<ul><li>To improve gully ca</li><li>To control the existing</li></ul>	<ul> <li>To improve gully catchments to reduce and regulate the run off rates.</li> <li>To control the existing landslide through bio-engineering process.</li> </ul>						
	Conservation								
8	Measure /	•Gabion Check dam a	Gabion Check dam and wall is constructed on the gully.						
0	Technique	<ul> <li>Bamboo plantation</li> </ul>	was done to contro	ol debris flow and che	ck the surface e	erosion.			
	applied:								
0	Implementation	User group approach	User group approach. According to the agreement, the concerned user group purchased the						
9	process:	gabion boxes, stone and bamboo and completed the work by using local manpower available.							
10	Gender/social	From the selection of	the activity to imp	elementation of the wo	ork, women we	re equally			
10	consideration:	involved in the proces	SS.						
11	Effect/impact:	To some extent, the g saved.	gully/ landslide is	controlled and agricul	tural land and s	settlement is			
12	Benefited HH	Total: 154	Dalit:	Janjati: 154	Madhesi: 0	Other:			
13	Employment Generated:			420 Md.					
14	Problem faced:	Shortage of skilled la	bor was one of the	factors causing delay	in the complet	ion of the project.			
15	Maintenance /	Structures require reg	ular maintenance	and repairs if they get	damaged. Hov	vever,			
15	Sustainability:	maintenance fund is r	ot allocated for th	e project but will do v	when required.				
16	Lesson learned:	Haphazard infrastruct	ure development	works such as motor r	oad is one of th	e major cause of			
		landslide in chure reg	10n.						
		User Group Name:	Sarre Khola Gale	chhi Pahiro Niyantran	UC				
17	Other <sup>.</sup>	Chair Person:	Dil Kumar Maga	r					
1/		Site In charge:	Anil Kumar Cha	udhary					
		Unit Officer:	Bhim Bahadur K	alikote					





1	Name of Program:	River Bank Stabiliza	tion						
2	Name of Activity:	Revetment with Lau	nching (Gabion V	Work) and Earthern	dam				
3	Location: LahanMur	nicipality Wa	ard: 05 Place:	BaluwaTole		F/Y: 2076/077			
4	Name of River Syste	m: Balan River Syster	n						
5	GPS Coordinate:	X: 26	.72565 Y:	86.48380					
6	Cost:- a) Estimated:								
Office:	7500000	User: 53	5403.47	Others:	Total:	8035403.47			
	b) Actual Expende	iture:							
Office:	7175440	User: 53	2403.47	Others:	Total:	7707843.47			
7	Objectives	• To control the river	bank cutting and	stabilize the flow	of river.				
/	Objectives:	• To protect the agricultural land and human settlement within the area.							
	Conservation	Gabion launching i	Gabion launching is provided to prevent scouring and protect the structure.						
8	Measure /	Gabion revetment a	and earthen dam	are provided to pre-	vent overflow an	d river bank			
	Technique applied:	cutting.							
9	Implementation	User group approach	<ol> <li>According to the</li> </ol>	ne agreement, the co	oncerned user gro	oup purchased			
	process:	the gabion boxes and stone and completed the work by using local manpower available.							
10	Gender/social	From the selection of	From the selection of the activity to implementation of the work, women were equally						
10	consideration:	involved in the proce	ess.						
11	Effect/impact:	The risk of river bar	nk cutting and da	mage of agricultura	l land and settler	nent is reduced.			
12	Benefited HH	Total: 85	Dalit: 30	Janjati: 10	Madhesi: 0	Other: 45			
13	Employment			1550 Md					
	Generated:			1550 Md.					
14	Problem faced	Shortage of skilled la	abor and Covid 1	9 lockdown caused	the delay in the	completion of			
	Troblem fueed.	the project.							
15	Maintenance /	Structures require re	gular maintenanc	e and repairs if the	y get damaged. H	However,			
10	Sustainability:	maintenance fund is	not allocated for	the project but will	do when require	ed.			
16	Lesson learned	Big budgeted progra	ms should be cor	nducted through ten	der process as th	e local			
		community lacks the	required manpo	wer.					
		User Group Name:	Khutti KholaPu	irbi Nadi Niyantran	UC				
17	Other:	Chair Person:	Jaya Kishun Pra	asad Sudi					
1,		Site In charge:	Anil Kumar Ch	audhary					
		Unit Officer:	Bhim Bahadur	Kalikote					

#### **DURING**



1	Name of Program	: River Bank Stabi	lization						
2	Name of Activity	Revetment with L	aunching (Ga	bion Work) and Earth	hern dam				
3	Location: Lahan I	Municipality	Ward: 10	Place: Khatar(Musa	(lmanTole)	F/Y: 2076/077			
4	Name of River Sy	stem: Balan River Sy	stem						
5	GPS Coordinate:	X: 26.72	2770	Y: 86.48300					
6	Cost:- a) Estimate	ed:							
Office:	3690000	User: 6715	39.37	Others:	Tota	l: 4361539.37			
	b) Actual Expe	nditure:							
Office:	3594675.45	User: 6715	39.37	Others:	Tota	1: 4266214.81			
7	Objectives	• To control the rive	rbank cutting	and stabilize the flow	v of river.				
/	Objectives.	• To protect the agricultural land and human settlement within the area.							
	Conservation								
8	Measure /	• Gabion launching is provided to prevent scouring and protect the structure.							
0	Technique	• Gabion toe wall is	provided to p	revent overflow and r	iver bank cutting	5.			
	applied:								
9	Implementation	User group approach	Jser group approach. According to the agreement, the concerned user group purchased the						
	process:	gabion boxes and stone and completed the work by using local manpower available.							
10	Gender/social	From the selection of	of the activity	to implementation of	the work, women	n were equally			
10	consideration:	involved in the proc	ess.						
11	Effect/impact:	The risk of river ba	nk cutting and	l damage of agricultur	ral land and settle	ement is reduced.			
12	Benefited HH	Total: 180	Dalit: 100	Janjati: 50	Madhesi: 0	Other: 30			
12	Employment			650 Md					
15	Generated:			050 Miu.					
1.4		Shortage of skilled l	abor and Cov	id 19 lockdown cause	ed the delay in the	e completion of the			
14	Problem faced:	project.			-	•			
15	Maintenance /	Structures require re	gular mainter	ance and repairs if th	ey get damaged.	However,			
15	Sustainability:	maintenance fund is	not allocated	for the project but wi	ll do when requir	red.			
16	Lesson lesmed.	Big budgeted progra	ms should be	conducted through te	ender process as t	he local community			
10	Lesson learned:	lacks the required m	anpower.	-	-	-			
		User Group Name:	Khutti kho	la Nadi Niyantran UC					
17	Othern	Chair Person:	Gyandev N	Iandal					
1/	Other:	Site In charge:	Anil Kuma	r Chaudhary					
		Unit Officer:	Bhim Baha	dur Kalikote					





1	Name of Program	n: River Bank Stat	River Bank Stabilization						
2	Name of Activity	: Revetment, Toe	wall and Spurs wi	th Launching (Gabion Wo	rk) and Ea	rthen Dam			
3	Location: Lahan	Municipality	Ward: 10	Place: Gramin		F/Y: 2076/077			
4	Name of River S	ystem: Balan River Sy	rstem						
5	GPS Coordinate:	X: 26.7	3003 Y:	86.48144					
6	Cost:- a) Estimate	ed:							
Office:	4500000	User: 5601	39.07	Others:	Total:	5060139.07			
	b) Actual Expe	enditure:		•					
Office:	4440960	User: 5601	39.07	Others:	Total:	5001099.07			
		• To control the rive	bank cutting and s	stabilize the flow of river.					
7	Objectives:	• To protect the agric	cultural land, rural	road and human settlemer	t within th	e area.			
	Conservation	Gabion launching i	s provided to prev	ent scouring and protect th	e structure	· ····			
0	Measure /	• Cabion too wall is	movided to move	t avanflaw and niver bank		·•			
8	Technique	• Gabion toe wan is	provided to prever	it overflow and river bank	cutting.				
	applied:	<ul> <li>Earthen dam is pro</li> </ul>	vided which is fun	ctioned as road that was p	eviously d	lamaged by flood.			
0	Implementation	User group approach	User group approach. According to the agreement, the concerned user group purchased the						
9	process:	gabion boxes and stone and completed the work by using local manpower available.							
10	Gender/social	From the selection o	f the activity to im	plementation of the work,	women we	ere equally			
10	consideration:	involved in the proce	ess.						
11	Effect/impact:	The risk of river bar	nk cutting and dam	age of agricultural land an	d settleme	nt is reduced.			
12	Benefited HH	Total: 26	Dalit: 12	Janjati: 9 Mad	hesi: 0	Other: 5			
13	Employment			890 Md					
15	Generated:			070 Md.					
14	Problem faced	Shortage of skilled la	abor and Covid 19	lockdown caused the dela	y in the co	mpletion of the			
	Troblem faced.	project.							
15	Maintenance /	Structures require re	gular maintenance	and repairs if they get dar	naged. Hoy	wever,			
	Sustainability:	maintenance fund is	not allocated for the	he project but will do when	required.				
16	Lesson learned:	Big budgeted progra	ms should be conc	lucted through tender proc	ess as the l	ocal community			
		lacks the required manpower.							
		User Group Name:	Shree Siddhesw	orMahadevKhuttikholaNa	diNiyantra	n UC			
17	Other:	Chair Person:	Nabin Bahadur	Karkı					
-		Site In charge:	Anil Kumar Cha	udhary					
		Unit Officer:	Bhim Bahadur H	Kalıkote					





1	1 Name of Program: River Bank Stabilization									
2	Name of Activity	: Revetment, T	oe wall and	Spurs wit	h Launching (Gabior	n Work) and Ea	arthen Dam			
3	Location: Lahan	Municipality V	Ward: 05	Place:	KhuttiKholaPul		F/Y: 2076/077			
4	Name of River S	ystem: Balan Rive	r System							
5	GPS Coordinate:	X: 2	26.721880	Y:	86.485660					
6	Cost:- a) Estimate	ed:								
Office:	7500000	User: 5	535403.47		Others:	Tota	1: 8035403.47			
	b) Actual Exp	enditure:								
Office:	7175440	User: 5	535403.47		Others:	Tota	1: 7710843.47			
7	Objectives:	<ul><li>To control the a</li><li>To protect the a</li></ul>	To control the riverbank cutting and stabilize the flow of river. To protect the agricultural land and human settlement within the area.							
	Conservation	Gabion launchi	ing is provid	led to prev	ent scouring and pro	tect the structu	re.			
Q	Measure /	Gabion toe wal	Gabion toe wall is provided to prevent overflow and river bank cutting.							
0	Technique	• Earthen dam is	Earthen dam is provided which is functioned as road that was previously damaged by flood.							
	applied:									
9	Implementation	User group appro	User group approach. According to the agreement, the concerned user group purchased the							
	process:	gabion boxes and stone and completed the work by using local manpower available.								
10	Gender/social	From the selection	on of the act	tivity to im	plementation of the	work, women v	were equally			
10	consideration:	involved in the p	process.							
11	Effect/impact:	The risk of river	r bank cuttir	ng and dam	age of agricultural la	and and settlem	ent is reduced.			
12	Benefited HH	Total: 156	Dali	t: 56	Janjati: 40	Madhesi: 0	Other: 60			
13	Employment Generated:				1460 Md.					
	Generated.	Shortage of skill	ed labor and	1 Covid 10	lockdown caused th	e delay in the c	completion of the			
14	Problem faced:	project.			lockdown caused in	e delay in the e	ompletion of the			
15	Maintenance /	Structures requir	e regular m	aintenance	and repairs if they g	et damaged. H	owever,			
15	Sustainability:	maintenance fun	d is not allo	cated for the	he project but will do	when required	1.			
16	Lasson loornad:	Big budgeted pro	ograms shou	uld be cond	lucted through tende	r process as the	e local community			
10	Lesson learned.	lacks the required manpower.								
		User Group Nar	ne: Khutt	i Khola Na	di Niyantran UC					
17	Other	Chair Person:	Pashu	pati Kuma	r Sah					
1/	Ould.	Site In charge:	Anil H	Kumar Cha	udhary					
		Unit Officer:	Bhim	Bahadur k	Kalikote					

# ONGOING





1	Name of Program: River Bank Stabilization										
2	Name of Activity	: Launching and T	oe wall (Gabion V	Vork)							
3	Location: Lahan	Municipality	Ward: 9 Place	: Lahan Goth		F/Y: 2076/077					
4	Name of River S	ystem: Balan River Sy	stem		<u>.</u>						
5	GPS Coordinate:	X: 26.7	/2706 Y	: 86.48369							
6	Cost:- a) Estimate	ed:									
Office:	810000	User: 810	28.98	Others:	Total:	891028.98					
	b) Actual Expe	enditure:									
Office:	700193.41	User: 810	28.98	Others:	Total:	781222.39					
7	Objectives:	• To control the riverbank cutting and stabilize the flow of river.									
	Conservation     Gabion launching is provided to prevent scouring										
	Measure /	• Gabion toe wall is 1	rovided to preve	on scouring.	hank cutting						
8	Technique		provided to preven	it overnow and river	balik cutting.						
	applied:	pplied:									
	Implementation User group approach. According to the agreement, the concerned user group purchased the										
9	process: gabion boxes and stone and completed the work by using local manpower available.										
10	Gender/social	From the selection of	f the activity to in	plementation of the v	vork, women wer	e equally					
10	consideration:	involved in the proce	ess.	•							
11	Effect/impact:	The risk of river bar	k cutting and dan	age of agricultural la	nd and settlemet	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 la	bor and Covid 19	lockdown caused the	e delay in the corr	pletion of the					
14	Troblem faced.	project.									
15	Maintenance /	Structures require re	gular maintenance	and repairs if they ge	et damaged. How	ever,					
	Sustainability:	maintenance fund is	not allocated for t	he 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 the	Shraa Coth Khu	tti Khole Niventron I	IC						
		Chair Person:	Dovondro Soh	ui Kilola Iviyalitlall (							
17	Other:	Site In charge:	Anil Kumar Ch	udbary							
		Unit Officer:	Rhim Rahadur	Calikote							
1	1	Unit Officer.		Valikule							





1	Name of Program: Ground Water Recharge and its Utilization								
2	Name of Activity:	Pond excavation,	Stone Masonr	y wall, RCC Dam	Construction				
3	Location: Dhangadi	mai Municipality W	ard: 13 P	lace: Bhalutar, Du	rbin danda	F/Y: 2076/077			
4	Name of River Syst	em: Balan River Systen	n						
5	GPS Coordinate:	X:	26.82861	Y: 86.40775					
6	Cost:- a) Estimated:								
Office:	1500000	User:	223317.43	Others:	Total:	1723317.43			
	b) Actual Expendence	liture:		•					
Office:	1232572	User:	191148.8	Others:	Total:	1423720.8			
7	Objectives:	<ul> <li>To store the rain water by harvesting immediate runoff and providing aid in ground water recharge.</li> <li>To improve irrigation facility in dry season.</li> </ul>							
8	Conservation Measure / Technique applied:	rationRecharge 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 involved in the proces	the activity to s.	implementation of	of the work, wor	nen were equally			
11	Effect/impact:	Moisture around the a wild animals was prov	rea has been i vided.	ncreased, irrigatio	on and drinking	water to domestic and			
12	Benefited HH	Total: 29 Dalit	: 3	Janjati: 24	Madhesi: 0	Other: 2			
13	Employment Generated:			450 Md.					
14	Problem faced:	Shortage of equipment	t caused the d	elay in the comple	etion of the proj	ect.			
15	Maintenance / Sustainability:	Structures require reguments maintenance fund is n	ular maintenation of allocated for	nce and repairs if the project but w	they get damage will do when rec	ed. However, quired.			
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: Chair Person: Site In charge:	Durbin Dar Indra Baha Anil Kuma	nda KhanepaniUC durTamang r Chaudhary					
1		Unit Officer:	Bhim Baha	dur Kalıkote					

BEFORE





1	Name of Program:	Ground Water Rechar	Ground Water Recharge and its Utilization						
2	Name of Activity:	Pond excavation							
3	Location: Surunga M	unicipality	Ward: 3 P	lace: Daulatpur		F/Y: 2076/077			
4	Name of River Syster	n: 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 Exper	nditure:					
Office:	1480320	User:	158578	Others:	Total	: 1638898			
7	Objectives:	<ul><li>To store the rain wat water recharge.</li><li>To improve irrigatio</li></ul>	• 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:	• Pond was excavated creating earthen dam.	• 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 involved in the proces	the activity to im	plementation of th	e work, wome	en were equally			
11	Effect/impact:	Moisture around the a	rea has been incr	eased, and irrigation	on facility is e	ased.			
12	Benefited HH	Total: 360	Dalit: 100	Janjati: 200	Madhesi: 0	Other: 60			
13	Employment Generated:			450 Md.					
14	Problem faced:	Shortage of equipmen	t caused the dela	y in the completion	n of the projec	et.			
15	Maintenance / Sustainability:	Structures require reg maintenance fund is n	ular maintenance ot allocated for t	and repairs if they he project but will	get damaged do when requ	. However, ired.			
16	Lesson learned:	Wetlands and conserv maintaining moisture,	ation ponds not o it also plays a vi	only helps in grour tal role in promoti	nd water rechang tourism.	rge and			
		User Group Name:	Dhapdhapiya P	okhari Nirmaan U	С				
17	Other	Chair Person:	Chair Person: Hari Narayan Chaudhari						
1/	Ouler:	Site In charge:	Anil Kumar Ch	audhary					
		Unit Officer:	Bhim Bahadur	Kalikote					

1	Name of Program:	Grou	Ground Water Recharge and its Utilization						
2	Name of Activity:	Pond	excavati	on, Stone M	asonry w	all, RCC Dam Con	struction		
3	Location: Lahan Mur	nicipalit	ty	Ward: 15	Place	: Mohanpur		F/Y: 2076/077	
4	Name of River System	m: Bala	n River	System	·				
5	GPS Coordinate:		X:	26.79036	Y:	86.49764			
6	Cost:- a) Estimated:								
Office:	1500000		User:	223317.4	3	Others:	Total:	1723317.43	
	b) Actual Expenditu	re:				·			
Office:	1480320		User:	223317.4	3	Others:	Total:	1703637.43	
7	Objectives:	• To s water • To i	<ul> <li>To store the rain water by harvesting immediate runoff and providing aid in ground water recharge.</li> <li>To improve irrigation facility in dry season.</li> </ul>						
8	Conservation Measure / Technique applied:	Recha groun masor witho	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 involv	the select ved in the	ction of the a process.	activity to	implementation of	the work, won	nen were equally	
11	Effect/impact:	Moist and w	ture arou vild anim	nd the area als was pro	has been /ided.	increased, irrigatio	on and drinking	water to domestic	
12	Benefited HH	Total	: 225	Dal	it: 25	Janjati: 45	Madhesi: 0	Other: 175	
13	Employment Generated:					495 Md.			
14	Problem faced:	Short the pr	age of sk oject.	illed labor a	nd Covid	19 lockdown caus	ed the delay in	the completion of	
15	Maintenance / Sustainability:	Struct maint	tures requirenance f	uire regular und is not a	maintena located fo	nce and repairs if the project but w	ney get damage ill do when req	d. However, uired.	
16	Lesson learned:	Complex RCC structure construction should be conducted through tender process as the local community lacks the required skilled manpower.							
		User	Group N	ame:	Bhumig	at Jal Punbharnara	Satahamuniko	Pani UC	
17	Other	Chair	Person:		Ram Pu	karYadav			
1/		Site I	n charge:		Anil Ku	mar Chaudhary			
		Unit (	Officer:		Bhim Ba	ahadur Kalikote			

## **DURING**







1	Name of Program:	Ground Water Recharge and its Utilization							
2	Name of Activity:	Pond	excavatio	on, Stone	e Maso	onry wa	ll, RCC Dam Cor	struction	
3	Location: Lahan Mun	icipalit	у	Ward:	17	Place	Daulatpur		F/Y: 2076/077
4	Name of River Syster	n: Bala	n River S	System					
5	GPS Coordinate:		X:	26.744	421	Y:	86.50762		
6	Cost:- a) Estimated:								
Office:	1500000		User:	22256	9.62		Others:	Total	1722569.62
	b) Actual Expenditur	re:							
Office:	1324649.96		User:	21551	7		Others:	Total	1540166.96
7	Objectives:	<ul> <li>To store the rain water by harvesting immediate runoff and providing aid in ground water recharge.</li> <li>To improve irrigation facility in dry season.</li> </ul>							
8	Conservation Measure / Technique applied:	Recha groun masor withou	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 g requir local t	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 involv	the selec ved in the	tion of t process	he acti 3.	vity to	implementation of	f the work, wo	men were equally
11	Effect/impact:	Moist and w	ure aroui ild anima	nd the ar als was p	rea has provide	s been i ed.	ncreased, irrigatio	on and drinkin	g water to domestic
12	Benefited HH	Total:	380		Dalit	: 100	Janjati: 80	Madhesi: 0	Other: 200
13	Employment Generated:						495 Md.		
14	Problem faced:	Shorta the pr	ige of ski oject.	illed lab	or and	Covid	19 lockdown caus	ed the delay in	the completion of
15	Maintenance / Sustainability:	Struct maint	ures requ enance fu	iire regu ind is no	lar ma ot alloc	intenar ated fo	ce and repairs if t r the project but w	hey get damag vill do when re	ed. However, quired.
16	Lesson learned:	Comp local o	lex RCC communi	structur	re cons the re	struction quired	n should be condu skilled manpower.	cted through t	ender process as the
		User (	Group Na	ame:	Devid	aha Utl	hanan Sarsafaitat	ha Inlet Nirma	an UC
17	Other	Chair Person: Mahendra Prasad Chaudhary							
1/	Ould.	Site In	n charge:		Anil K	Kumar (	Chaudhary		
		Unit (	Officer:		Bhim	Bahadu	r Kalikote		





# **BIRING RIVER SYSTEM**

1	Name of Program: Gully, Landslide and Torrent Control										
2	Name of Activity	: Gabion Work									
3	Location: Arjund	hara Municipality	Ward: 01 Pla	ce: Hattiahal, Mate	F	/Y: 2076/077					
4	Name of River Sy	ystem: Biring River Sy	stem								
5	GPS Coordinate:	X: 20	5.756755 Y:	88.023631							
6	Cost:- a) Estimate	ed:									
Office:	1321908.73	User: 14	41003.6	Others:	Total:	1462912.33					
	b) Actual Expe	enditure:									
Office:	1253440	User: 13	35000	Others:	Total:	1388440.4					
7	Objectives:	<ul><li>To improve gully catchments to reduce and regulate the run off rates.</li><li>To control the existing landslide and protect devitthan mandir and other properties.</li></ul>									
	Conservation										
0	Measure /										
0	Technique	Gabion Check dam	and wall is constru	cted along the gullies	and landslide.						
	applied:										
9	Implementation	User group approach. According to the agreement, the concerned user group purchased the									
	process:	gabion boxes, stone and completed the work by using local manpower available.									
10	Gender/social	being From the selection of the activity to implementation of the work, women were equally									
10	consideration:	involved in the proce	ss.								
11	Effect/impact:	To some extent, the point is solved.	gully/ landslide is c	ontrolled and the prob	olem of road bloc	ckade at the					
12	Benefited HH	Total: 63	Dalit: 8	Janjati: 35	Madhesi: 0	Other: 20					
12	Employment			280 Md							
15	Generated:			200 Mid.							
14	Problem faced:	Shortage of skilled la	bor was one of the	factors causing delay	in the completion	n of the project.					
15	Maintenance /	Structures require reg	ular maintenance a	nd repairs if they get	damaged. Howev	ver,					
15	Sustainability:	maintenance fund is r	not allocated for the	e project but will do w	hen required.						
		A gully develops in the	hree distinct stages	; waterfall erosion; cha	annel erosion alc	ong the gully					
16	Lesson learned	bed; and landslide ero	osion on gully bank	s. Correct gully control	ol measures mus	t be determined					
10	Lesson rearried.	according to these de	velopment stages.	Once gullies have beg	un to form, howe	ever, they must					
be treated as soon as possible, to minimize further damage and restore stability.											
		User Group Name:	Bhase Pahiro Niy	antran UC							
17	Othern	Chair Person: Bijendra Kumar Yekten									
1/	Other:	Site Incharge:	Manish Acharya								
		Unit Officer:	Bhim Bahadur Ka	alikote							





1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity: Gabion Work									
3	Location: Arjund	hara Municipality	Ward: 01 Place:	Thulo Kholsi, Bhase,	Gaumukhi	F/Y: 2076/077				
4	Name of River Sy	ystem: Biring River Sy	vstem							
5	GPS Coordinate:	X:	26.7705 Y:	88.016295						
6	Cost:- a) Estimate	ed:								
Office:	2677767.64	User:	294258.84	Others:	Total:	2972026.48				
	b) Actual Expe	enditure:		1						
Office:	2592616	User:	280258.84	Others:	Total:	2872874.84				
7	Objectives:	<ul><li>To improve gully ca</li><li>To control the exist</li></ul>	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:	• Gabion Check dam	Gabion Check dam and wall is constructed along the gullies and landslide.							
9	Implementation process:	<sup>1</sup> 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 point is solved.	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 la	bor was one of the	factors causing delay	in the completio	n of the project.				
15	Maintenance / Sustainability:	Budget was very low allocated and other su existing structure sus	as compared to sev upporting structures stainable.	verity of landslide. Mo s are need to be made	ore budget is nee to control landsl	ded to be ide and make				
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.								
		User Group Name:	Bhase Pahiro Niy	antran UC						
		Chair Person:	Makkardhoj Yekt	en						
17	Other:	Site In charge:	Manish Acharva							
		Unit Officer:	Bhim Bahadur Ka	alikote						





1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity	r: Gat	oion Wo	rk, Bam	boo	Plantation				
3	Location: Mai M	unicipalit	у	Ward:	05	Place: Kris	hna Ma.Vi., Thakl	e basti, Th	nakle	F/Y: 2076/077
4	Name of River S	ystem: Bi	ring Riv	ver Syste	em					
5	GPS Coordinate:		X:	26.773	391	Y:	87.94666			
6	Cost:- a) Estimate	ed:								
Office:	1623910.4		User:	84661	.07		Others:		Total:	1708571.47
	b) Actual Expenditure:									
Office:	1603680		User:	84661	.07		Others:		Total:	1688341.07
7	Objectives	• To im	prove g	ully cate	hme	nts to reduce	and regulate the ru	n off rates	5.	
/	Objectives.	• To con	ntrol the	existing	g lan	dslide throug	h bio-engineering	process.		
	Conservation									
8	Measure / • Gabion Check dam and wall is constructed along the gullies and landslide.									
0	Technique	• Bamb	Bamboo plantation was done to control debris flow and check the surface erosion.							
	applied:									
9	Implementation	User gr	oup app	roach. A	Accor	ding to the a	greement, the conc	erned user	r group j	purchased the
,	process:	gabion	boxes, s	tone and	l ban	nboo and con	npleted the work by	/ using loc	cal manp	ower available.
10	Gender/social	From th	e select	ion of th	ne ac	tivity to impl	ementation of the v	vork, won	nen were	e equally
10	consideration:	involve	d in the	process						
11	Effect/impact:	To som	ne exten	t, the gu	11y/ 1	andslide is co	ontrolled and struct	ures are sa	aved.	1
12	Benefited HH	Total: 1	65		Da	ılit: 5	Janjati: 150	Madhe	esi: 0	Other: 10
13	Employment						408 Md			
	Generated:						100 1014			
14	Problem faced:	Shortag	e of ski	lled labo	or wa	s one of the f	factors causing dela	y in the c	ompletio	on of the project.
15	Maintenance /	Structur	res requ	ire regul	ar m	aintenance a	nd repairs if they g	et damage	d. Howe	ever,
	Sustainability:	mainter	nance fu	nd is no	t allo	ocated for the	project but will do	when req	uired.	
16	16 Lesson learned. Physical engineering structure is crucial for immediate control while bio engineering provides								neering provides	
		benefits	in long	run.						
		User G	roup Na	ame:	I'hak	le sthit Krish	na Ma.Bi. Chheuko	o Pahiro N	iyantrar	n UC
17	Other:	Chair P	erson:	]	Dipei	ndra Das Rai				
1,	0 1101 .	Site In o	charge:	1	Mani	sh Acharya				
1	1	Unit Of	ficer:	]	Bhim	Bahadur Ka	likote			





1	Name of Program	a: Gully, Landslide and Torrent Control								
2	Name of Activity	: Gab	ion Wor	k, Bamb	oo Planta	ation				
3	Location: Mai M	unicipali	ty	Ward:	05	Place: 1	Dhobikhola, Ghaiy	aataar	]	F/Y: 2076/077
4	Name of River S	ystem: B	iring Riv	er Syste	em					
5	GPS Coordinate:		X:	26.807	76	Y:	87.95529			
6	Cost:- a) Estimate	ed:								
Office:	2376089.6		User:	16357	9.55		Others:		Total:	2539669.15
	b) Actual Expe	enditure:								
Office:	2322252		User: 163579.55 Others: Total: 2485832							
7	Objectives	• To im	prove gi	ally cate	hments to	o reduce	and regulate the ru	n off rates		
/	Objectives.	• To co	ntrol the	existing	g dhobikh	iola land	slide and its debris			
	Conservation									
8	Measure /	easure / • Gabion Check dam and wall is constructed on base of landslide and other small gullies.								
0	Technique	• Bamb	Bamboo plantation was done to control debris flow and check the surface erosion.							
	applied:									
Implementation User group approach. According to the agreement, the cond						greement, the conc	erned user	group p	urchased the	
	process:	gabion	boxes, s	tone and	l bamboo	and con	pleted the work by	y using loc	al manpo	ower available.
10	Gender/social	From th	ne select	ion of th	ne activity	to imple	ementation of the v	vork, wom	nen were	equally
10	consideration:	involve	ed in the	process.						
11	Effect/impact:	To son	ne exten	t, the gu	lly/ lands	lide is co	ontrolled and debri	s flow has	been red	uced.
12	Benefited HH	Total: 1	100		Dalit: 5		Janjati: 60	Madhe	si: 0	Other: 35
13	Employment						910 Md			
	Generated:						, 10 1.10			
14	Problem faced:	Covid 1	19 and lo	ockdowr	n caused c	lelay in t	imely payment of	the work.		
15	Maintenance /	Structu	res requi	ire regul	ar mainte	enance ar	nd repairs if they g	et damage	d. Howev	/er,
	Sustainability:	mainter	nance fu	nd is no	t allocated	d for the	project but will do	when requ	uired.	
16	Lesson learned:	Physica	al engine	ering st	ructure is	crucial f	for immediate cont	rol while b	oio engin	eering provides
	200000000000000000000000000000000000000	benefits	s in long	run.	~ .					
		User C	broup Na	ime: C	Jhaiyataa	r Dhobil	chola Pahiro Niyar	tran UC		
17	Other:	Chair F	Person:	I	Bal Krish	na Burja	Magar			
1,		Site In	charge:	1	Manish A	charya				
1		Unit Of	fficer:	I	3him Bah	adur Ka	likote			

BEFORE

1	Name of Program	n: Gully, Landslid	e and T	orrent Control					
2	Name of Activity	: Gabion Work							
3	Location: Rong R	Rural Municipality		Ward: 04	Place: Bhalaayod	anda, Kalitaar	F/Y: 2076/077		
4	Name of River Sy	ystem: Biring River	System						
5	GPS Coordinate:	X: 2	6.7852	Y:	88.0283				
6	Cost:- a) Estimate	ed:							
Office:	2024000	User: 2	05471		Others:	Total	:2229471		
	b) Actual Expe	enditure:							
Office:	1979182	User: 205	071		Others:	Total	: 2184253		
7	Objectives:	<ul><li>To improve gully catchments to reduce and regulate the run off rates.</li><li>To conserve/protect the existing budhabare-hokse road lying.</li></ul>							
8	Conservation Measure / Technique applied:	• 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 compared to previous	he gully ous year	n/ landslide is corrected as a second state of the second state	ontrolled and the ro	bad at the point	has become stable		
12	Benefited HH	Total: 210	]	Dalit: 5	Janjati: 200	Madhesi: 0	Other: 5		
13	Employment Generated:				555 Md.				
14	Problem faced:	Covid 19 and lock	down ca	aused delay in t	imely payment of t	he work.			
15	Maintenance / Sustainability:	Structures require maintenance fund	regular is not al	maintenance an llocated for the	nd repairs if they ge project but will do	t damaged. Hov when required.	vever,		
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	e: Sur	ndar CFUG					
		Chair Person:	Bal	Bahadur Tama	ing				
		Site In charge:	Ma	nish Acharya					
		Unit Officer:	Bhi	im Bahadur Kal	ikote				

## ONGOING





1	Name of Program: Gully, Landslide and Torrent Control									
2	Name of Activity	: Gabion Wall and	Bamboo Plan	tation						
3	Location: Rong F	Rural Municipality	Ward: 02	Place: Asure, Kharband Baguwa	li Puchhar,	F/Y: 2076/077				
4	Name of River S	ystem: Biring River Sy	vstem							
5	GPS Coordinate:	X: 2	6.76444	Y: 87.97411						
6	Cost:- a) Estimate	ed:								
Office:	2000000	User: 2	31104	Others:	Total:	2231104				
	b) Actual Expe	enditure:								
Office:	1915574	User: 174503	3	Others:	Total:	2090077				
7	Objectives:	<ul><li>To regulate the</li><li>To conserve/protect</li></ul>	To regulate the run off rates and control river bank cutting by sano nete river. To conserve/protect the settlement lying above.							
	Conservation	Gabion Check dan	Gabion Check dam and wall is constructed on bank of sano nete river on three different							
8	Measure / location namely; baguwa tole, kharbandi puchhar and asure.									
0	Technique	Bamboo plantation	Bamboo plantation was done to control debris flow and check the surface erosion.							
	applied:									
9	Implementation	Implementation User group approach. According to the agreement, the concerned user group purchased the								
	process:	gabion boxes, stone a	and bamboo a	nd completed the work by	y using local ma	npower available.				
10	Gender/social consideration:	From the selection involved in the proce	of the activitess.	ty to implementation of	the work, wor	nen were equally				
11	Effect/impact:	To some extent, the	gully/ landslid	le 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 la	bor was one o	of the factors causing dela	y in the complet	tion of the project.				
15	Maintenance /	Structures require	regular main	tenance and repairs if	they get dat	naged. However,				
15	Sustainability:	maintenance fund is	not allocated f	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								
		User Group Name:	Asure Bagu	wa Pahiro Niyantran UC						
17	Other	Chair Person:	Person: Aaitaraj Khewaang							
1/	Otner:	Site In charge:	Manish Ach	larya						
		Unit Officer:	Bhim Bahao	lur Kalikote						





1	Name of Program: Gully, Landslide and Torrent Control								
2	Name of Activity	: Gabion Wall and	Bamboo Plantation						
3	Location: Rong R	Rural Municipality	Ward: 02	Place: Mangalta	ar, Badamtaar	F/Y: 2076/077			
4	Name of River S	ystem: Biring River Sy	stem						
5	GPS Coordinate:	X: 26.7	9333 Y:	87.97411					
6	Cost:- a) Estimate	ed:							
Office:	1975705	User: 1893	389.46	Others:	Total:2	165094.46			
	b) Actual Expe	enditure:							
Office:	1881240	User: 133259	)	Others:	Total: 2	2014499			
7	Objectives:	<ul><li>To improve gully ca</li><li>To conserve/protect</li></ul>	To improve gully catchments to reduce and regulate the run off rates. To conserve/protect the badamtar road above and settlemet lying on the gully head.						
	Conservation	Gabion Check dam	and wall is construc	cted on the gully and	gabion retaining	wall on the			
o	Measure /	Measure / road above.							
0	Technique	Bamboo plantation	was done to control	debris flow and che	ck the surface ero	osion.			
	applied:	1:							
9	Implementation	User group approach	. According to the	agreement, the con-	cerned user group	p purchased the			
,	process:	gabion boxes, stone a	nd bamboo and cor	npleted the work by	using local manp	ower available.			
10	Gender/social	From the selection	of the activity to	implementation of	the work, wome	n were equally			
10	consideration:	involved in the proces	SS.						
11	Effect/impact:	To some extent, the point is solved.	gully/ landslide is	controlled and the	problem of road	blockade at the			
12	Benefited HH	Total: 204	Dalit: 13	Janjati: 114	Madhesi: 0	Other: 77			
13	Employment			450 Md		•			
15	Generated:			450 Mu.					
14	Problem faced:	Shortage of skilled la	bor was one of the	factors causing delay	in the completio	n of the project.			
15	Maintenance /	Structures require 1	egular maintenand	ce and repairs if	they get dama	ged. However,			
	Sustainability:	maintenance fund is r	not allocated for the	project but will do y	when required.				
16	Lesson learned:	Physical engineering	structure is crucial	for immediate contro	ol while bio engir	eering provides			
		benefits in long run.	V D DI						
		User Group Name:	Kamare Paani Par	uro Niyantran UC					
17	Other:	Chair Person:	Chandra Prasad B	hattarai					
		Site In charge:	Manish Acharya						
1		Unit Officer:	Bhim Bahadur Ka	likote					





1	Name of Program: Gully, Landslide and Torrent Control								
2	Name of Activity	: Gabion Wall and	Bamboo Plantatio	n					
3	Location: Rong R	Rural Municipality	Ward: 01	Place: Odhare and Ba	arkhe Kholsi	F/Y: 2076/077			
4	Name of River S	ystem: Biring River Sy	stem						
5	GPS Coordinate:	X: 26.7	7278 Y:	88.024234					
6	Cost:- a) Estimate	ed:							
Office:	2000000	User: 2131	70.11	Others:	Total:	2213170.11			
	b) Actual Expe	enditure:							
Office:	1968620	User: 2396	38	Others:	Total:	2208258			
7	Objectives:	<ul> <li>To improve gully catchments to reduce and regulate the run off rates.</li> <li>To conserve/protect the Sanischare-Shantipur road.</li> </ul>							
	Conservation	Gabion Check dam	and wall is constru	icted on upper side an	d lower side of r	oad in odhare			
8	Measure /	kholsi and barkhe kho	olsi.						
0	Technique	Bamboo plantation	Bamboo plantation was done to control debris flow and check the surface erosion.						
	applied:								
9	Implementation	User group approach	. According to the	e agreement, the conc	erned user grou	p purchased the			
	process:	gabion boxes, stone a	gabion boxes, stone and bamboo and completed the work by using local manpower available.						
10	Gender/social	From the selection of	the activity to imp	elementation of the wo	ork, women were	equally			
	consideration:	involved in the process.							
11	Effect/impact:	To some extent, the gully/ landslide is controlled and the problem of road blockade at the							
10		point is solved.	D 11 05	<b>T T T T T T T T T T</b>		0.1 (20)			
12	Benefited HH	Total: 975	Dalit: 35	Janjati: 510	Madhes1: 0	Other: 430			
13	Employment Generated:			594 Md.					
14	Problem faced:	Shortage of skilled la	bor was one of the	factors causing delay	in the completio	n of the project.			
15	Maintenance /	Structures require reg	ular maintenance	and repairs if they get	damaged. Howe	ver,			
10	Sustainability:	maintenance fund is r	not allocated for th	e project but will do w	when required.				
16	Lesson learned:	Haphazard infrastruct	ture development v	works such as motor re	oad is one of the	major cause of			
		User Group Name	Gante Tilhare Pa	hiro Nivantran UC					
		Chair Person:	Jeevan Dahal						
17	Other:	Site In charge	Manish Acharva						
		Unit Officer:	Bhim Bahadur K	alikote					
•				··· · · · · ·					





1	Name of Program: Gully, Landslide and Torrent Control								
2	Name of Activity	: Gabion Checkda	ım						
3	Location: Rong F	Rural Municipality	Ward: 01	Place: C	Gante Pahiro, Kag	une	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:	Total:	2158023.39		
	b) Actual Expenditure:								
Office:	1972917.04	User:	201724		Others:	Total:	2174641.04		
7	Objectives:	<ul><li>To improve gully of</li><li>To conserve/protect</li></ul>	catchments to red of the road locate	duce and read read above lar	gulate the run off	rates.			
8	Conservation Measure / Technique applied:	<ul> <li>onservation</li> <li>easure /</li> <li>Gabion Checkdam and wall is constructed on the gullies formed to reduce the run off as well</li> <li>as to control debris flow.</li> </ul>							
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 involved in the proc	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 a	as compared to pre	evious years			
12	Benefited HH	Total: 72	Dalit:	5	Janjati: 57	Madhesi:	Other: 10		
13	Employment Generated:		·	445 ]	Md.				
14	Problem faced:	Shortage of skilled l	abor was one of	the factors	causing delay in t	he completi	on of the project.		
15	Maintenance / Sustainability:	Budget was very lo allocated and other existing structure su	ow as compared supporting struc stainable.	to severity tures are no	y of landslide. M eed to be made to	lore budget control lan	is needed to be dslide and make		
16	Lesson learned:	User Group approac	h is more effecti	ve only wh	en the program di	rectly benef	its the user.		
		User Group Name:	Gante Tilhare	Pahiro Niy	antran UC				
17	Other	Chair Person:	Dev Kumar R	ai					
1/	Ould.	Site In charge:	Manish Achar	rya					
		Unit Officer:	Bhim Bahadur Kalikote						





1	Name of Program:	River Bank Stabiliza	River Bank Stabilization						
2	Name of Activity:	Toe wall and Spurs with Launching (Gabion Work)							
3	Location: Arjundhar	a Municipality Wa	ard: 04 Pl	ace: Sukhani Dobhaan,	Bhangbaari	F/Y: 2076/077			
4	Name of River Syste	m: Biring River Syste	m						
5	GPS Coordinate:	X: 26	.694621	Y: 87.95967					
6	Cost:- a) Estimated:								
Office:	4500000	User: 44	6289.27	Others:	Total:	4946289.27			
	b) Actual Expend	iture:							
Office:	4438904	User: 44	6289.27	Others:	Total:	4885193.27			
7	Objectives:	• To control the river	To control the riverbank cutting and stabilize the flow of river.						
8	Conservation Measure / Technique applied:	<ul> <li>Gabion launching i</li> <li>Gabion toe wall is j</li> </ul>	<ul> <li>Gabion launching is provided to prevent scouring and protect the structure.</li> <li>Gabion toe wall is provided to prevent overflow and river bank cutting.</li> </ul>						
9	Implementation process:	User group approach. According to the agreement, the concerned user group purchashed 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 bar	nk cutting an	d damage of agricultura	l land and settler	nent 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 la the project.	abor and Cov	vid 19 lockdown caused	the delay in the	completion of			
15	Maintenance / Sustainability:	Structures require reg maintenance fund is	gular mainte not allocated	nance and repairs if they I for the project but will	y get damaged. H do when require	Iowever, ed.			
16	Lesson learned:	Big budgeted program	ms should be required ma	e conducted through ten inpower.	der process as th	e local			
		User Group Name:	Tangting S	ukhani Dobhaan Daksh	in Nadi Niyantra	n UC			
17	Other	Chair Person:	Ekdev Kha	nal	•				
1/	Ouler:	Site In charge:	Manish Ac	harya					
		Unit Officer:	Bhim Baha	dur Kalikote					





1	Name of Program: River Bank Stabilization									
2	Name of Activity	: Toe wall and Spur	s with Launcl	ning (Gabion Work)						
3	Location: Arjund	hara Municipality	Ward: 01	Place: Biran, Sadhu	taar	F/Y: 2076/077				
4	Name of River Sy	stem: Biring River Sy	stem							
5	GPS Coordinate:	X: 26.75	423	Y: 88.01007						
6	Cost:- a) Estimated:									
Office:	4400000	User: 65882	21.28	Others:	Total	: 5058821.28				
	b) Actual Expenditure:									
Office:	4338160	User: 65882	21.28	Others:	Total	: 4996981.28				
7	Objectives:	• To control the river	To control the riverbank cutting and stabilize the flow of river.							
	Conservation		unturur lund u	na naman settlement	within the area.					
	Measure / • Gabion launching is provided to prevent scouring and protect the structure.									
8	Technique	Gabion toe wall is	Gabion toe wall is provided to prevent overflow and river bank cutting.							
	applied:									
0	Implementation	User group approach	. According t	o the agreement, the	concerned user gr	oup purchashed the				
9	process:	gabion boxes and sto	one and compl	eted the work by usin	ng local manpowe	er available.				
10	Gender/social	From the selection of	f the activity t	o implementation of	the work, women	were equally				
10	consideration:	involved in the proce	ess.							
11	Effect/impact:	The risk of river bar	nk cutting and	damage of agricultur	ral land and settle	met is reduced.				
12	Benefited HH	Total: 180	Dalit: 30	Janjati: 80	Madhesi: 0	Other: 70				
12	Employment			775 MA						
15	Generated:			// <i>3</i> Mu.						
1.4		Shortage of skilled la	abor and Covi	d 19 lockdown cause	ed the delay in the	completion of the				
14	Problem faced:	project.			•	*				
15	Maintenance /	Structures require re	gular mainten	ance and repairs if th	ey get damaged.	However,				
15	Sustainability:	maintenance fund is	not allocated	for the project but wi	ll do when requir	ed.				
16	Lesson learned	Big budgeted progra	ms should be	conducted through te	ender process as the	he local community				
10	Lesson learned.	lacks the required ma	anpower.							
		User Group Name:	Thulo Nete	Purwa Baguwa Pahi	ro Tatbandhan Sa	miti				
17	Other	Chair Person:	Santosh Ku	mar Yekten						
1/	Other:	Site In charge:	Manish Act	narya						
		Unit Officer:	Bhim Baha	dur Kalikote						





1	Name of Program	ogram: River Bank Stabilization							
2	Name of Activity	: Revetment, Toe	wall and Spurs wi	th Launching (Gabior	n Work) and Ear	then Dam			
3	Location: Arjund	haara Municipality	Ward: 01 Place	e: Perunge		F/Y: 2076/077			
4	Name of River System: Biring River System								
5	GPS Coordinate:	X: 26.7	6231 Y:	88.00751					
6	Cost:- a) Estimate	ed:							
Office:	3621254.12	User: 385.	User: 385590.28 Others: Total: 4006844.4						
	b) Actual Expenditure:								
Office:	3510311.6	User: 341.	535	Others:	Total:	3851846.6			
_		• To control the riverbank cutting and stabilize the flow of river.							
1	Objectives:	• To protect the agricultural land, rural road and human settlement within the area							
-	Conservation	Gabion launching	is provided to prev	ent scouring and prot	ect the structure				
0	Measure / Cabion too wall is provided to prevent overflow and river bank outting								
8	Technique								
	applied:	• Earthen dam is pro	wided which is fun	ctioned as road that w	vas previously d	amaged by flood.			
0	Implementation	User group approach. According to the agreement, the concerned user group purchased the							
9	process:	gabion boxes and stone and completed the work by using local manpower available.							
10	Gender/social	From the selection of the activity to implementation of the work, women were equally							
10	consideration:	involved in the proc	ess.						
11	Effect/impact:	The risk of river ba	nk cutting and dam	age of agricultural la	nd and settlemer	nt is reduced.			
12	Benefited HH	Total: 87	Dalit: 10	Janjati: 47	Madhesi: 0	Other: 30			
13	Employment			632 Md					
15	Generated:			032 Ivid.					
14	Problem faced	Shortage of skilled l	abor and Covid 19	lockdown caused the	delay in the cor	npletion of the			
17	Tioblem faced.	project.							
15	Maintenance /	Structures require re	gular maintenance	and repairs if they ge	et damaged. How	vever,			
	Sustainability:	maintenance fund is	not allocated for the	he project but will do	when required.				
16	Lesson learned	Big budgeted progra	ims should be cond	lucted through tender	process as the lo	ocal community			
10	Lesson learnea.	lacks the required m	lacks the required manpower.						
		User Group Name:	Perunge Pahiro	Khahare Tatha Galch	hi UC				
17	Other:	Chair Person:	Amabar Bahadu	r Rai					
1		Site In charge:	Manish Acharya	l					
		Unit Officer:	Bhim Bahadur H	Kalikote					





1	Name of Program: River Bank Stabilization								
2	Name of Activity	: Toe wall and Spur	s with Launching	g (Gabion Work)					
3	Location: Mai M	unicipality Ward	: 05 Place:	Simana basti, Kumb	oitaar	F/Y: 2076/077			
4	Name of River S	ystem: Biring River Sy	stem						
5	GPS Coordinate:	X: 26.77	'194 Y:	87.95671					
6	Cost:- a) Estimate	ed:							
Office:	5740000	User: 63375	54.13	Others:	Total:	6373754.13			
	b) Actual Expe	enditure:							
Office:	5654000	User: 1028	128.00	Others:	Total:	6682128.00			
7	Objectives:	<ul><li>To control the river</li><li>To protect the agric</li></ul>	bank cutting and and hultural land and h	stabilize the flow of a uman settlement with	river. hin the area.				
	Conservation	Gabion launching is	provided to prev	ent scouring and pro	tect the structure	2.			
0	Measure /	• Gabion toewall is pr	rovided to preven	t overflow and river	bank cutting.				
8	Technique	• Spur is made to ckeck the velocity of water.							
	applied:								
Implementation User group approach. According to the agreement, the concerned user group purchas									
9	process:	gabion boxes and stor	ne and completed	the work by using lo	ocal manpower a	vailable.			
10	Gender/social	From the selection of	the activity to im	plementation of the	work, women we	ere equally			
10	consideration:	involved in the process.							
11	Effect/impact:	The risk of river ban	k cutting and dan	hage of agricultural la	and and settleme	t is reduced.			
12	Benefited HH	Total: 83	Dalit: 7	Janjati: 67	Madhesi: 0	Other: 9			
13	Employment			1130 Md					
15	Generated:			1150 Md.					
14	Problem faced	Shortage of skilled la	bor and Covid 19	lockdown caused th	e delay in the co	mpletion of the			
14	Troblem faced.	project.							
15	Maintenance /	Structures require reg	ular maintenance	and repairs if they g	et damaged. How	wever,			
10	Sustainability:	maintenance fund is r	not allocated for t	he project but will do	when required.				
16	Lesson learned:	Big budgeted program	ns should be cond	lucted through tende	r process as the l	ocal community			
		lacks the required ma	npower.						
		User Group Name:	Kumbitaar (Sin	ana Basti) Sthit Tang	gting Khola Niya	antran UC			
17	Other:	Chair Person:	Jas Bahadur Lir	nbu					
	Guidi.	Site In charge:	Manish Acharya	a					
		Unit Officer:	Bhim Bahadur Kalikote						

# **ONGOING**





1	Name of Program: River Bank Stabilization									
2	Name of Activity	: Launching and T	oe wall (Gabion W	'ork)						
3	Location: Rong F	Rural Municipality	Ward: 2 Place	Bichkhet, Goyangkh	nola	F/Y: 2076/077				
4	Name of River S	ystem: Biring River Sy	stem							
5	GPS Coordinate:	X: 26.7	8009 Y:	87.98184						
6	Cost:- a) Estimate	ed:								
Office:	5728800	User: 633	754.13	Others:	Total	: 6362554.13				
	b) Actual Expenditure:									
Office:	5329594	User: 5735	532.66	Others:	Total	: 5903126.70				
7	Objectives:	• To control the river	bank cutting and s	tabilize the flow of ri	ver.					
		• To protect the agric	ultural land and hu	iman settlement with	in the area.					
	Conservation • Gabion launching is provided to prevent scouring.									
8	Measure /	• Gabion toe wall is p	Gabion toe wall is provided to prevent overflow and river bank cutting.							
	Technique									
	appned:									
9	Implementation	User group approach	. According to the	agreement, the conce	rned user group	purchased the				
	process:	gabion boxes and stone and completed the work by using local manpower available.								
10	Gender/social	From the selection of	the activity to imp	plementation of the w	ork, women we	re equally				
11	consideration:	involved in the proce	SS.	<u> </u>	1 11					
11	Effect/impact:	The risk of river ban	k cutting and dama	age of agricultural lar	nd and settlemet	is reduced.				
12	Benefited HH	Total: 24	Dalit: 4	Janjati: 11	Madhes1: 0	Other: 9				
13	Employment	1050 Md.								
	Generated:									
14	Problem faced:	Shortage of skilled la	bor and Covid 19	lockdown caused the	delay in the cor	npletion of the				
		project.		1 1 10 1						
15	Maintenance /	Structures require reg	gular maintenance	and repairs if they ge	t damaged. How	vever,				
	Sustainability:	Dial to the terminal strains	not allocated for th	e project but will do	when required.	1 4				
16	Lesson learned:	Big budgeted program	ns should be cond	ucted through tender	process as the lo	ocal community				
		Lacks the required that	Governa Khole N	fiventron UC						
		Chair Dercort	Volumba Taman							
17	Other:	Chair Person:	Maniah Asha	2						
		She in charge:	Manish Acharya	· 1·1 /						
		Unit Officer:	Bhim Bahadur K	alikote						



1	Name of Program:	ame of Program: Ground Water Recharge and its Utilization								
2	Name of Activity:	Pond expan	sion							
3	Location: Arjundha	ra Municipality	W	ard: 03 P	lace: Falgunanda S	Simsaar, Kaidal	e	F/Y: 2076/077		
4	Name of River Syst	em: Biring River	System	n						
5	GPS Coordinate:	~~~~~	X:	26.71144	Y: 87.96556					
6	Cost:- a) Estimated:									
Office:	1500000	U	User: 369066.43 Others: Total: 1869066.43							
	b) Actual Expend	liture:								
Office:	1475180	U	Jser:	369066.43	Others:	Total:	184	4246.43		
7	Objectives:	<ul><li>To upgrade ex</li><li>To increase th</li></ul>	• To upgrade existing Jukekhadi pond. • To increase the catchment area and upgrade existing pond as tourist area							
8	Conservation Measure / Technique applied:	• Upstream area	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 por	nd was	increased and	d more water was	stored.				
12	Benefited HH	Total: 2083	Dalit:	: 292	Janjati: 499	Madhesi: 0	Oth	er: 1292		
13	Employment Generated:				100 Md.					
14	Problem faced:	Shortage of equ	ipment	t caused the d	lelay in the comple	etion of the proj	ect.			
15	Maintenance / Sustainability:	The location is conservation an for next fiscal y	suitable d infra ear.	e for tourism structure dev	through wetland c elopment. Thus so	levelopment. It	needs lget ha	s more as been allocated		
16	Lesson learned:	Wetlands and co moisture, it also	onserva plays	ation ponds n a vital role ir	ot only helps in grant promoting touris	ound water recl	narge	and maintaining		
		User Group Nat	me:	Jukekhadi	CFUG					
17	Other	Chair Person:		Dibya Pd. 1	Kattel					
1/	Ouler:	Site In charge:		Manish Ac	harya					
		Unit Officer:		Bhim Baha	dur Kalikote					





1	Name of Program:	gram: Ground Water Recharge and its Utilization							
2	Name of Activity:	Pond excavation							
3	Location: Arjundhara	Muncipality	Ward: 5 Pl	lace: DMC Area, I	Baansbaari	F/Y: 2076/077			
4	Name of River Syster	n: 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 Expen	diture:					
Office:	1480320	User:	248652.00	Others:	Total:	1728972.00			
7	Objectives:	<ul><li>To store the rain was water recharge.</li><li>To improve irrigation</li></ul>	ter by harvesting i on facility in dry se	immediate runoff a eason.	and providing ai	d in ground			
8	Conservation Measure / Technique applied:	• 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 involved in the proces	From the selection of the activity to implementation of the work, women were equally involved in the process.						
11	Effect/impact:	Moisture around the a of community through	rea has been incre n IGA.	eased and it will al	so help in econo	omic condition			
12	Benefited HH	Total: 48	Dalit: 7	Janjati: 15	Madhesi: 0	Other: 26			
13	Employment Generated:			250 Md.		•			
14	Problem faced:	Shortage of equipmen	t caused the delay	y in the completion	n of the project.				
15	Maintenance /	Structures require reg	ular maintenance	and repairs if they	get damaged. H	lowever,			
	Sustainability:	maintenance fund is n	ot allocated for th	ne project but will	do when require	ed.			
16	Lesson learned:	maintaining moisture,	ation ponds not o	al role in promotion	d water recharge	e and			
		User Group Name:	Arjundhara Disa	aster Management	Committee				
17	Other	Chair Person:	Kedar Nath Para	ajuli					
1/		Site In charge:	Manish Acharya	1					
		Unit Officer:	Bhim Bahadur I	Kalikote					

1	Name of Program:	Ground Water Recharge and its Utilization								
2	Name of Activity:	Activity: Pond Upgrade through plumb wall construction								
3	Location: Arjundhara	a Munic	cipality	Ward: 01	Place	: Salbandi			F/Y: 2076/077	
4	Name of River Syste	m: Biri	ng River	System						
5	GPS Coordinate:		X:	26.74405	Y:	88.010189				
6	Cost:- a) Estimated:									
Office:	1500000		User:	145143.95		Others:	Tota	al:	1645143.95	
	b) Actual Expenditu	ire:								
Office:	1480320		User:	145143.95		Others:	Tota	al:	1625463.95	
7	Objectives:	• To t • To d area.	<ul> <li>To upgrade existing Sakambari pond.</li> <li>To control runoff and leakage of water through pond and maintain moisture around the area.</li> </ul>							
8	Conservation Measure / Technique applied:	• RC	• 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 invol	the selection th	ction of the a e process.	ctivity to	implementation of	of the work, w	/ome	en were equally	
11	Effect/impact:	The	water has	s been stored	and pon	d was upgraded.				
12	Benefited HH	Total	: 227	Dali	t: 17	Janjati: 50	Madhesi: (	)	Other: 160	
13	Employment Generated:	495 N	٨d.							
14	Problem faced:	Short the pi	age of sk roject.	killed labor a	nd Covic	l 19 lockdown cau	sed the delay	in tł	ne completion of	
15	Maintenance / Sustainability:	Struc	tures req tenance f	uire regular i fund is not all	naintena	nce and repairs if or the project but	they get dama will do when i	aged requ	. However, ired.	
16	Lesson learned:	Comp local	olex RCC commun	C structure co nity lacks the	onstruction required	on should be conducted skilled manpower	ucted through	tend	der process as the	
		User	Group N	lame:	Sakamb	ari Sanrachhan tat	ha Sambardha	an S	amiti	
17	Other	Chair	Person:		Chandra	a Adhikari				
1/	ouler.	Site I	n charge	:	Manish	Acharya				
		Unit	Officer:		Bhim B	ahadur Kalikote				

BEFORE





1	Name of Program: Ground Water Recharge and its Utilization							
2	Name of Activity:	Pond excavation an	d RCC embanl	tment				
3	Location: Mai Munic	ipality Wa	rd: 04 Plac	e: Sukhani		F/Y: 2076/077		
4	Name of River System	m: Biring River Syste	m					
5	GPS Coordinate:	X: 26.	73467 Y:	87.94621				
6	Cost:- a) Estimated:							
Office:	1500000	User: 146	697.9	Others:	Total:	1646697.9		
	b) Actual Expenditu	re:						
Office:	1446394	User: 143	335.87	Others:	Total:	1589729.81		
7	Objectives:	<ul> <li>• To collect the rain water by controlling immediate run off and hence providing aid in ground water recharge.</li> <li>• To maintain the soil moisture around the area and also providing the irrigation facility in dry seasons.</li> </ul>						
8	Conservation Measure / Technique applied:	<ul> <li>Small torrent was blocked by RCC dam and upstream side was excavated to increase the capacity of pond.</li> <li>Earthen dam was provided on the both horizontal side and spillway on the downstream side of the dam.</li> </ul>						
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 involved in the proc	of the activity t eess.	o implementation of th	ne work, wome	en were equally		
11	Effect/impact:	The water has been area has increased.	stored by harv	vesting the run off wate	er and soil moi	sture around the		
12	Benefited HH	Total: 117	Dalit: 2	Janjati: 55	Madhesi: 0	Other: 60		
13	Employment Generated:	495 Md.	i					
14	Problem faced:	Shortage of skilled the project.	labor and Covi	d 19 lockdown caused	the delay in th	e completion of		
15	Maintenance / Sustainability:	Structures require re maintenance fund is	egular mainten not allocated	ance and repairs if the for the project but will	y get damaged do when requ	. However, ired.		
16	Lesson learned:	Complex RCC structure local community lac	cture construct	on should be conducted skilled manpower.	ed through tend	ler process as the		
		User Group Name:	Sukhani Po	khari Nirmaan UC				
17	Other	Chair Person:	Dambar Ba	hadur Limbu				
1/		Site In charge:	Manish Ac	narya				
		Unit Officer:	Bhim Baha	dur Kalikote				

ONGOING




### **BUDHI RIVER SYSTEM**

1	Name of Program	River Bank Stabilization									
2	Name of Activity	: Revetment with	Launching (Gabio	n Work) and Earther	n Dam, Bamboo	Plantation					
3	Location: Keraba	ri Municipality	Ward: 07 Place	e: Okhaldhunga		F/Y: 2076/077					
4	Name of River Sy	stem: Budhi River Sy	stem								
5	GPS Coordinate:	X: 26.78	3665 Y:	87.40814							
6	Cost:- a) Estimate	ed:									
Office:	4500000	User: 3855	90.28	Others:	Total:	4006844.4					
	b) Actual Expe	enditure:									
Office:	4454398.01	User: 3855	90.28	Others:	Total:	4813288.29					
7	Objectives	• To control the river	bank cutting and s	stabilize the flow of	river.						
/	Objectives:	• To protect the agricultural land, rural road and human settlement within the area.									
	Conservation	Gabion launching is	s provided to prev	ent scouring and pro	tect the structure						
8	Measure /	• Gabion toe wall is t	Gabion toe wall is provided to prevent overflow and river bank cutting								
0	Technique										
	applied:	• Earthen dam is prov	vided which is fun	ctioned as road that	was previously d	amaged by flood.					
9	Implementation	User group approach	. According to the	agreement, the cond	cerned user group	purchased the					
	process:	gabion boxes and sto	ne and completed	the work by using lo	ocal manpower a	vailable.					
10	Gender/social	From the selection of	f the activity to im	plementation of the	work, women we	ere equally					
10	consideration:	involved in the proce	ss.								
11	Effect/impact:	The risk of river ban	k cutting and dam	age of agricultural la	and and settleme	nt is reduced.					
12	Benefited HH	Total: 808	Dalit: 50	Janjati: 550	Madhesi: 0	Other: 258					
13	Employment			950 Md							
10	Generated:			<i>900</i> ma.							
14	Problem faced:	Shortage of skilled la	bor caused the de	lay in the completion	n of the project.						
15	Maintenance /	Structures require	regular maintena	nce and repairs i	f they get dar	naged. However,					
	Sustainability:	maintenance fund is	not allocated for the	he project but will do	o when required.						
16	Lesson learned	Lesson learned. Big budgeted programs should be conducted through tender process as the local community									
10	Lesson rearried.	lacks the required manpower.									
		User Group Name:	Okhaldhunga M	ansire Tatbandha U	C						
17	Other <sup>.</sup>	Chair Person:	Mani Chandra L	limbu							
Γ/	Other:	Site In charge:	Ila Yadav								
		Unit Officer:	Bhim Bahadur H	Kalikote							

#### BEFORE

AFTER





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1	Name of Program	River Bank Stabilization								
2	Name of Activity	: Revetment with	Launching (Gat	oion Work) and Earth	en Dam, Bamboo	Plantation				
3	Location: Keraba	ri Municipality	Ward: 3&10	Place: Deware		F/Y: 2076/077				
4	Name of River S	stem: Budhi River Sy	stem	·		•				
5	GPS Coordinate:	X: 26.78	705 Y	: 87.41061						
6	Cost:- a) Estimate	ed:								
Office:	4500000	User: 4247	80.10	Others:	Total:	4924780.10				
	b) Actual Expe	enditure:								
Office:	4452361.55	User: 4247	User: 424780.10 Others: Total: 4877141.65							
7	Ohissti	• To control the river	bank cutting an	d stabilize the flow of	river.					
/	Objectives:	• To protect the agric	• To protect the agricultural land, rural road and human settlement within the area.							
-	Conservation	• Gabion launching is	provided to pro	event scouring and pr	otect the structure.					
0	Measure /	• Gabion toe wall is r	rovided to prev	ent overflow and rive	r hank cutting					
8	Technique		Gabion foe wan is provided to prevent overnow and river bank cutting.							
	applied:	• Earthen dam 1s prov	• Earthen dam is provided which is functioned as road that was previously damaged by flood.							
9	Implementation	User group approach.	According to t	he agreement, the cor	cerned user group	purchased the				
	process:	gabion boxes and stor	ne and complete	ed the work by using l	local manpower av	vailable.				
10	Gender/social	From the selection of	the activity to i	mplementation of the	work, women we	re equally				
10	consideration:	involved in the proce	ss.							
11	Effect/impact:	The risk of river ban	k cutting and da	mage of agricultural	land and settlemer	nt is reduced.				
12	Benefited HH	Total: 808	Dalit: 50	Janjati: 550	Madhesi: 0	Other: 258				
13	Employment			975 Md.						
1.4	Generated:		1 1.1	11 .1 1	6.1					
14	Problem faced:	Shortage of skilled la	bor caused the	delay in the completion	on of the project.	1 **				
15	Maintenance /	Structures require	regular mainte	nance and repairs	if they get dar	naged. However,				
	Sustainability:	maintenance rund is not allocated for the project but will do when required.								
16	Lesson learned:	lacks the required manpower								
		Lisor Group Name:	Dowers Khole	i Tathandha UC						
		Chair Person:	Dewale Kilois							
17	Other:	Site In charge:	Ila Vaday	lenijolig						
		Unit Officer	Dhim Dohodw	. Valikota						
1		Unit Unicer:	Dillill Dalladu	Nalikole						

#### BEFORE





Name of Activity: Plantation and green belt formation on the river bank										
Name of Program: Green belt formation on the river bank										
Location: Sundarharaicha	ì	Ward: 5	Place:	Naya brindban	n, Gaus	sala F.	/Y: 2076/77			
Name of River System: E	Budhi River Sys	tem								
GPS Coordinate:										
Cost:- a)Estimated:										
Office: 1,65000(Includin	ng Contingency)	User	: 32,855		Others	: То	tal: 197855			
b) Actual Exp	penditure:	•								
Office: 165000		User	: 32,855		Others	: То	tal: 197855			
Objectives:	<ul> <li>Stabili</li> </ul>	zation of riv	er bank							
Conservation Measure /	• Planta	tion on the r	iver bank							
Technique applied:										
Implementation process:	User group applants and the	proach. Acco work by usin	ording to ng local r	the agreement, manpower availa	the coi able.	ncerned user grou	up purchased the			
Gender/social	From the selec	tion of the a	ctivity to	implementation	n of the	e work, women v	were equally			
consideration:	involved in the	e process.								
Effect/impact:	River bank sab	oilization								
Benefited HH	Total: 250	Dalit	: 50	Janjati:100		Madhesi:	Other:100			
Employment Generated:	35									
Problem faced:	Rainy season c	ause delay i	n the cor	npletion of the p	project					
Maintenance /	The regular ma	aintenance a	nd if they	v get damaged. H	Howev	er, maintenance	fund is not allocated			
Sustainability:	for the project	but will do v	when req	uired.						
Lesson learned:	If user group a	re more invo	olved, the	implementation	n will l	be easier and wo	uld successfully			
complete the work. Awareness creation, empowerment and mobilization of user group is										
essential before real implementation of the activity										
Other:	User Group Na	ame: <b>Shree</b> I	Radhe S	hyam Sewa Tru	ust					
	Chair Person:	Dev Narayaı	n Shresth	a						
	Site Incharge:	Niraj Dahal								
	Unit Officer: E	Bhim Bahadı	ır Kaliko	te						





### **RATUWA RIVER SYSTEM**

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1.	Name of Activity: Gabion Checkdam										
2.	Name of Program: Gully and landslide control										
3.	Location: Chulachuli	Ward: 3	Ward: 3Place: Rikute PahiroF/Y: 2076/77								
4.	Name of River System: R	atuwa River Sys	stem			·					
5.	5. GPS Coordinate: E 87.7680656551 N 26.7212536265										
6.	6. Cost:- a) Estimated										
Offi	Office: 20,00288.00 (With User: 99716.00 Others: 00.00 Total: 210004.00										
4%	contingency)										
	b) Actual Expendit	ture:		1							
Offi	ce: 1907900.00	User: 98914.00	)	Others:00.00		Total: 2006814.00					
7.	Objectives:	To improve gu	lly catchments	to reduce and reg	gulate the run off	rates					
	~	To conserve an	nd protect the se	ettlement.							
8.	Conservation Measure /	Gabion check	dam is construc	ted.							
	Technique applied:										
9.	Implementation	User group app	broach. Accord	ing to the agreem	ent, the concerne	d user group purchased					
10	process:	the gabion box	es and stone the	hen completed th	e work by using I	ocal manpower available.					
10.	Gender/social	From the selec	tion of the activ	ity to implement	tation of the work	, women were equally					
	consideration:	involved in the	process.								
11.	Effect/impact:	To some exter	nt, the gully/ lar	ndslide is control	led.						
12	Benefited HH	Total: 105	Dalit: 5	Janjati: 70	Madhesi:	Other: 30					
13	Employment	1180 Mds									
	Generated:										
14	Problem faced:	Unavailability	of construction	materials and la	bors on time.						
15	Maintenance /	Structure requi	res the regular	maintenance and	repairs if they ge	t damaged. However,					
	Sustainability:	maintenance fu	ind is not alloca	ated for the proje	ct but will do whe	en required.					
16	Lesson learned:	Awareness crea	ation, empower	ment and mobili	zation of user gro	up is essential before					
	implementation of the activity.										
17	Other:	User Group Na	ame : Rikute Pa	hiro Niyentran U	Jpavokta Sammite	e					
		Chair Person: S	Sandesh Rai								
		Site Incharge:	Dinesh Pathak								
1		Unit Officer: B	him Bahadur <b>k</b>	Kalikote							





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 (wth 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 / Gabion check dam is constructed.         Technique applied:       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	1.	. Name of Activity: Gabion Checkdam, Bioengineering									
3.       Location: Chulachuli       Ward: 3       Place: Tintale Pahiro       F/Y: 2076/77         4.       Name of River System: Ratuwa River System	2.	Name of Program: Gully and la	ndslide control								
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% comingency)       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.         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       Implementation of the activity.       Implementation of user group is essential before implementation of the activity.         14       Problem faced: <td< th=""><td>3.</td><td>Location: Chulachuli</td><td>Ward: 3</td><td>Place: Tintale</td><td>Pahiro</td><td></td><td>F/Y: 2076/77</td></td<>	3.	Location: Chulachuli	Ward: 3	Place: Tintale	Pahiro		F/Y: 2076/77				
5.       GPS Coordinate: E 87.756531       N 26. 727506         6.       Cost:- a) Estimated       Others: 00.00       Total: 210,4950.00         b) Actual Expenditure:       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.         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       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 Nam	4.	Name of River System: Ratuwa	River System								
6.       Cost:- a) Estimated         Office:       2000868 (win 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.         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       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.	5.	GPS Coordinate: E 87.756531	N 26. 72	27506							
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:       0.00       Total:       1498976.00         7.       Objectives:       To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.       Total:       1498976.00         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       However, maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.         16	6.	Cost:- a) Estimated									
b) Actual Expenditure:           Office:         1386000.00         User:         7500.00         Others:         Total:         1498976.00           7.         Objectives:         To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.         Total:         1498976.00           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           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	Offi	ce: 2000868 (With 4% contingency)	User: 104082.	00	Others: 00	0.00 T	otal: 210,4950.00				
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.       Implementation off rates       To improve gully catchments to reduce and regulate the run off rates         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       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 Upav		b) Actual Expenditure:									
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       Invaliability 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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak <td>Offi</td> <td>ce: 1386000.00</td> <td>User: 75000.0</td> <td>0</td> <td>Others:00.</td> <td>00 T</td> <td>otal: 1498976.00</td>	Offi	ce: 1386000.00	User: 75000.0	0	Others:00.	00 T	otal: 1498976.00				
Image: Second	7.	7. Objectives: To improve gully catchments to reduce and regulate the run off rates									
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       Idage for 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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak			To conserve an	nd protect the set	ttlement.	-					
Technique applied: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.12Benefited HHTotal: 123Dalit: 313Employment Generated:801 Mds14Problem faced:Unavailability of construction materials and labors on time.15Maintenance / 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.16Lesson learned:Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.17Other:User Group Name : Tintale Pahiro Niyentran Upavokta Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	8.	Conservation Measure /	Gabion check	dam is construct	ed.						
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.12Benefited HHTotal: 123Dalit: 313Employment Generated:801 Mds14Problem faced:Unavailability of construction materials and labors on time.15Maintenance / 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.16Lesson learned:Awareness creation, empowerment and mobilization of user group is essential before implementation of the activity.17Other:User Group Name : Tintale Pahiro Niyentran Upavokta Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak		Technique applied:	Bamboo and A	Amriso plantation	n was done to co	ontrol debris flow	and check the				
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       Implementation and repairs if they get damaged. However, 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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	-		surface erosion	n.							
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       Image: Note of the regular maintenance and repairs if they get damaged. However, maintenance fund is not allocated for the project but will do when required.         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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	9.	Implementation process:	User group ap	proach. Accordi	ng to the agreen	ient, the concerne	ed user group				
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       Image: Second S			purchased the	gabion boxes an	d stone then co	ompleted the world	k by using local				
10.       Ochdel/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       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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	10	Gender/social consideration:	From the select	tion of the activi	ity to implemen	tation of the worl	woman wara				
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	10.	Gender/social consideration.	equally involv	ed in the process		tation of the work	x, women were				
11.       Effect/Impact:       10 some extent, the guily/ landshide is controlled.         12       Benefited HH       Total: 123       Dalit: 3       Janjati: 100       Madhesi: 00       Other: 20         13       Employment Generated:       801 Mds       Image: Some extent, the guily/ landshide is controlled.         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.         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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	11	Effect/imaget:		the sully las	dalida io aantual	1					
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	11.	Effect/impact:	1 o some exter	nt, the guily/ land	dslide is control	lea.					
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	12	Benefited HH	Total: 123	Dalit: 3	Janjati: 100	Madhesi: 00	Other: 20				
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	13	Employment Generated:	801 Mds								
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	14	Problem faced:	Unavailability	of construction	materials and la	bors on time.					
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	15	Maintenance / Sustainability:	Structure requi	ires the regular r	naintenance and	repairs if they ge	et damaged.				
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak			However, main	ntenance fund is	not allocated for	r the project but	will do when				
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 Sammitee Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	1.5	· · ·	required.								
17       Other:       User Group Name : Tintale Pahiro Niyentran Upavokta Sammitee         Chair Person: Puspa Raj Angdangbe       Site Incharge: Dinesh Pathak	16	16    Lesson learned:    Awareness creation, empowerment and mobilization of user group is essential									
Chair Person: Puspa Raj Angdangbe Site Incharge: Dinesh Pathak	17	before implementation of the activity.									
Site Incharge: Dinesh Pathak	1/	17 Other: User Group Name : Timale Paniro Niyemran Opavokia Saminitee Chair Parson: Puspa Pai Angdangha									
Site incharge. Diffesti i attak			Site Incharge	r uspa naj Aligu Dinech Pathak	angue						
Unit Officer: Bhim Bahadur Kalikote			Unit Officer F	Shim Bahadur K	alikote						
Site incluige. Diffest I attlak	16 17	Lesson learned: Other:	Awareness creation, empowerment and mobilization of user group is essential         before implementation of the activity.         User Group Name : Tintale Pahiro Niyentran Upavokta Sammitee         Chair Person: Puspa Raj Angdangbe         Site Incharge: Dinach Pathole								





1.	Name of Activity: Gabion Checkdam, Bioengineering									
2.	Name of Program: Gully and la	ndslide control								
3.	Location: Chulachuli	Ward: 6	Place: Lukuwa	Pahiro		F/Y: 2076/7	77			
4.	Name of River System: Ratuwa	River System								
5.	GPS Coordinate: E 87.664857	N 26. 827	057							
6.	Cost:- a) Estimated									
Offi	ce: 2314260.00 (With 4%	User: 144675.	00	Others:00.	00	Total: 2458936.0	00			
cont	ingency)									
	b) Actual Expenditure:									
Offi	ce: 2225000.00	User: 160037	.00	Others: 00.	.00	Total: 2446002.0	)0			
7.	Objectives:	To improve gully catchments to reduce and regulate the run off rates To conserve and protect the settlement.								
8.	. Conservation Measure / Gabion check dam is constructed.									
	Technique applied:	Bamboo and Amriso plantation was done to control debris flow and check the								
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 select equally involv	ction of the activitied in the process.	ty to implementa	tion of the wor	k, women were				
11.	Effect/impact:	To some exter	nt, the gully/ land	Islide is controlle	ed.					
12	Benefited HH	Total: 340	Dalit: 21	Janjati: 297	Madhesi: 00	Other: 22				
13	Employment Generated:	1285 Mds		-						
14	Problem faced:	Unavailability	of construction r	naterials and lab	ors on time.					
15	Maintenance / Sustainability:	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									
17	Other:	User Group N Chair Person: Site Incharge: Unit Officer: I	ame : Lukuwa P Dik Bahadur Rai Dinesh Pathak Shim Bahadur Ka	ahiro Niyentran alikote	Upavokta Samı	mitee				



1.	Name of Activity: Gabion Checkdam, Bioengineering								
2.	Name of Program: Gully and	landslide cor	ntrol						
3.	Location: Chulachuli	Ward: 6		Place: Da	ahar Pah	niro			F/Y: 2076/77
4.	Name of River System: Ratuw	a River Syst	em						
5.	GPS Coordinate: E 87.677409	N 26.82	24974						
6.	Cost:- a) Estimated								
Offi	ce: 1686641(With 4% contingency)	User: 1144	60.00			Others: 00.	00	Tota	l: 1801101.00
	b) Actual Expenditure:								
Offi	Office: 1621000 User: 114405 Others: Total: 1779820								l: 1779820
7.	Objectives:	To improve	e gully ca	atchments	to reduc	e and regu	late the run off	f rates	
		To conserv	e and pro	otect the se	ettlemen	it.			
8.	Conservation Measure /	Gabion che	eck dam i	is construc	ted.				
	Technique applied:	Bamboo an	d Amris	o plantatio	on was o	done to con	trol debris flow	w and	check the surface
		erosion							
9.	Implementation process:	User group	approac	h. Accordi	ng to th	e agreemei	nt, the concerne	ed use	er group purchased
		the gabion	boxes an	d stone th	nen com	pleted the	work by using	local	manpower
10		available.				-			
10.	Gender/social consideration:	From the se	election of	of the activ	vity to in	nplementat	ion of the wor	k, woi	men were equally
		involved in	the proc	cess.					
11.	Effect/impact:	To some e	xtent, the	e gully/ lan	idslide i	s controlle	1.		
12	Benefited HH	Total:	Dalit:	10	Janjati	: 145	Madhesi: 00		Other: 00
		155			Ū				
13	Employment Generated:	936 Mds							
14	Problem faced:	Unavailabi	lity of co	nstruction	materia	als and labo	ors on time.		
15	Maintenance / Sustainability:	Structure re	equires th	ne regular :	mainten	ance and re	epairs if they g	et dan	naged. However,
		maintenanc	e fund is	not alloca	ated for	the project	but will do wh	nen rec	quired.
16	Lesson learned:	Awareness	creation	, empower	ment ar	nd mobiliza	tion of user gro	oup is	essential before
	implementation of the activity.								
17	7 Other: User Group Name : Dahar Pahiro Niyentran Upavokta Sammitee								
		Chair Person: Deu Kumar Rai							
		Site Inchar	ge: Dines	sh Pathak					
		Unit Office	er: Bhim	Bahadur K	Calikote				





1.	Name of Activity: Gabi	on Checkdam,	Bioengi	neering						
2.	Name of Program: Gully and landslide control									
3.	Location: Chulachuli		Ward:	4 Place	e: Tirtire	e Pahiro		F/Y:	2076/77	
4.	Name of River System:	Ratuwa River	System	•						
5.	GPS Coordinate: E 87.7	32833 N	26.7201	03						
6.	6. Cost:- a) Estimated									
Offic	e: 2000000 (With 4% con	ntingency)	User: 1	06104.00		Others: 00.0	00 Total:	2106	104.00	
	b) Actual Expendit	ture:					·			
Offic	e: 1887400	-	User: 8	8187		Others:	Total:	1893	896	
7.	Objectives:	To improve g	gully cate	chments to r	educe a	nd regulate th	ne run off rate	s		
		To conserve	and prot	ect the settle	ement.					
8.	Conservation Measure	Gabion checl	k dam is	constructed	•					
	/ Technique applied:	Bamboo and erosion	Amriso	plantation	was don	e to control d	lebris flow and	d chec	k the surface	
9.	Implementation	User group a	pproach.	According	to the a	greement, the	e concerned us	ser gro	oup purchased	
	process:	the gabion bo	oxes, stor	ne and baml	ooo cutt	ings then con	npleted the wo	ork by	using local	
10	<u> </u>	manpower av	vailable.							
10.	Gender/social	From the sele	ection of	the activity	to impl	ementation of	f the work, wo	omen	were equally	
	consideration:	involved in th	ne proce	ss.						
11.	Effect/impact:	To some ext	ent, the g	gully/ landsl	ide is co	ontrolled.				
12	Benefited HH	Total: 111	Ι	Dalit: 15	Janja	ti: 44	Madhesi: 00		Other: 52	
13	Employment	1261 Mds								
	Generated:									
14	Problem faced:	Unavailabilit	y of con	struction ma	aterials a	and labors on	time.			
15	Maintenance /	Structure req	uires the	regular ma	intenanc	ce and repairs	if they get da	mage	d. However,	
	Sustainability:	maintenance	fund is r	not allocated	l for the	project but w	vill do when r	equire	ed.	
16	Lesson learned:	Awareness cr	reation, e	empowerme	nt and r	nobilization o	of user group i	s esse	ential before	
		implementati	on of the	e activity.						
17	Other:	User Group I	Name : 1	Bukuwa Kh	ahare N	iyentran Upa	vokta Sammit	ee		
		Chair Person	: Puspa l	Lal Pyakure	1					
		Site Incharge	Dinesh	Pathak	Irota					
		Unit Officer:	BUIM B	anadur Kalı	коте					





1.	Name of Activity: Gabion Checkdam, Bioengineering									
1.	Name of Activity: Gabion Checkdam, Bioengineering									
2.	Name of Program: Gully and landslide control									
3.	Location: ChulachuliWard: 4Place: Biduwa KholaF/Y: 2076/77									
4.	Name of River System: Ratuwa River System									
5.	. GPS Coordinate: E 87.731103 N 26.718292									
6.	6. Cost:- a) Estimated									
Offic	Office:         2000013 (With 4% contingency)         User:         160285.00         Others:         00.00         Total:         2160298.00									
	b) Actual Expendi	ture:				·				
Offic	e: 1774537.00		User: 243368	8.00	Others: 00.00	Total: 2	2166458.00			
7.	Objectives:	To improve	gully catchme	nts to reduce	e and regulate the	run off rates	5			
		To conserve	and protect th	e settlement		1 . 1				
8.	Conservation Measure	Gabion chec	k dam is const	ructed. Ban	boo cuttings wer	e planted.				
	/ Technique applied:	Gabion chec	k dam is const	ructed.	ona ta contral dal	ric flow and	abaals the surface			
		erosion	Alle so plan	auon was u		JIS HOW and	CHECK THE SUITACE			
9.	Implementation	User group a	pproach. Acco	ording to the	agreement, the c	concerned us	er group purchased			
	process:	the gabion b	oxes, stone and	d bamboo ci	ittings then comp	leted the wo	rk by using local			
	•	manpower a	vailable.		<b>U</b> 1					
10.	Gender/social	From the sel	ection of the a	ctivity to im	plementation of t	he work, wo	men were equally			
	consideration:	involved in t	he process.							
11.	Effect/impact:	To some ext	tent, the gully/	landslide is	controlled.					
12	Benefited HH	Total: 1080	Dalit:	180 Jan	ijati:900 N	Madhesi: 00	Other: 00			
13	Employment	1010 Mds								
	Generated:									
14	Problem faced:	Unavailabili	ty of construct	ion material	s and labors on ti	me.				
15	Maintenance /	Structure req	uires the regu	lar maintena	nce and repairs if	f they get dan	maged. However,			
	Sustainability:	maintenance	fund is not all	ocated for t	he project but wil	l do when re	equired.			
16	Lesson learned:	Awareness c	reation, empo	werment and	d mobilization of	user group is	s essential before			
17	0.1	implementat	10n of the activ	Vity		•				
1/	Other:	User Group	Name : Biduv	va Khola Pa	hiro Tatha Galchi	ni Niyentran	Upavokta Sammitee			
		Chair Person	1: Rajan Limbi	l olz						
		Unit Officer	· Rhim Rahadi	ar Ir Kalikote						





2.	Name of Program: Gull	y and landslid	e control						
3.	Location: Chulachuli		Ward: 4	Place: Sanch	ne Khola	F/	Y: 2076/77		
4.	Name of River System:	Ratuwa River	System	·					
5.	GPS Coordinate: E 87.7	31415 N 20	5.719597						
6.	Cost:- a) Estimated								
Offic	e: 2000055.87 (With 4% of	contingency)	User: 23481	9.00	Others: 00.00	Total: 223	34874.87		
	b) Actual Expenditure:								
Offic	e: 1751669	T	User: 32421	1	Others:	Total: 212	3875		
7.	Objectives:	To improve	gully catchme	ents to reduce	and regulate the r	un off rates			
		To conserve	and protect th	ne settlement.	· ·				
8.	Conservation Measure	Gabion chec	k dam 1s cons	tructed. Bamb	oo cuttings were	planted.			
0	/ Technique applied:	Llear group o	pproach Acc	ording to the	aroomont the co	noornad usar a	roup purchased		
9.	process:	the gabion b	oves stone ar	d hamboo cut	tings then comple	ncerned user g	y using local		
	process.	manpower a	vailable.		ungs men compre		y using local		
10.	Gender/social	From the sel	ection of the a	activity to imp	lementation of th	e work, wome	n were equally		
	consideration:	involved in t	he process.	<b>v</b> 1					
11.	Effect/impact:	To some ext	tent, the gully	/ landslide is c	controlled.				
12	Benefited HH	Total: 1080	Dalit:	180 Janja	ati:900 M	adhesi: 00	Other: 00		
13	Employment	1049							
	Generated:								
14	Problem faced:	Unavailabili	ty of construc	tion materials	and labors on tin	ne.			
15	Maintenance /	Structure rec	juires the regu	ılar maintenan	ce and repairs if	hey get damag	ged. However,		
	Sustainability:	maintenance	fund is not al	llocated for the	e project but will	do when requi	red.		
16	Lesson learned:	Awareness c	reation, empo	owerment and	mobilization of u	ser group is es	sential before		
17	0.1	Implementat	ion of the acti	vity.	T (1 C 1 1 1 1		1. 0		
1/	Other:	User Group	Name : Sanc	ne Knola Pahi	ro Tatha Galchhi	Niyentran Upa	avokta Sammitee		
		Site Incharge	i. Ivialialii Pra	sau Tullirok					
		Unit Officer	· Rhim Rahad	ur Kalikote					





1.	Name of Activity: Gabion Checkdam, Bioengineering									
2.	Name of Program: Gully a	nd landslide co	ntrol							
3.	Location: ChulachuliWard: 4Place: Tirtire PahiroF/Y: 2076/77									
4.	Name of River System: Rat	tuwa River Syst	tem							
5.	GPS Coordinate: E 87.732	833 N 2	26.720103							
6.	Cost:- a) Estimated									
Office:	2000968.87 (With 4% conti	ngency)	User: 939	65.00	Others: 00.	00 Total	: 209	94933.87		
	b) Actual Expenditure:									
Office:	Office: 1799900 User: 87860 Others: Total: 1937077									
7.	Objectives:	To improve g	ully catchm	nents to	reduce and regula	te the run of	f rate	2S		
		To conserve a	and protect	the settl	ement.					
8.	Conservation Measure / Technique applied:	Gabion check	dam is cor	structed	l. Bamboo cutting	s were plant	ed.			
9.	Implementation process:	User group ap purchased the using local m	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	From the sele	ction of the	activity	to implementation	on of the wor	k, we	omen were		
	consideration:	equally involve	ved in the p	rocess.						
11.	Effect/impact:	To some exte	ent, the gull	y/ lands	lide is controlled.					
12	Benefited HH	Total: 1080	Dalit	: 180	Janjati:900	Madhesi: (	00	Other: 00		
13	Employment Generated:	1075 Mds								
14	Problem faced:	Unavailability	y of constru	ction m	aterials and labors	s on time.				
15	Maintenance /	Structure requ	ires the reg	gular ma	intenance and rep	airs if they g	get da	ımaged.		
	Sustainability:	However, ma	intenance f	und is n	ot allocated for th	e project but	will	do when		
		required.								
16	Lesson learned:	Awareness cr	eation, emp	owerm	ent and mobilizati	on of user gr	oup i	is essential		
		before impler	nentation of	f the act	ivity.					
17	Other:	User Group N	lame : Tirt	ire Pahi	ro Galchhi Niyent	ran Upavokt	a Sai	nmitee		
		Chair Person:	Narendra I	Bantawy	wa					
		Site Incharge	Dinesh Pa	thak						
		Unit Officer:	Bhim Baha	dur Kal	1kote					



1.	Name of Activity: Gabi	ion Checkdam									
2.	Name of Program: River Bank Stablization 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 2	26. 688326								
6.	6. Cost:- a) Estimated										
Offic	e: 3000130.82 (With 4% co	ntingency)	User: 22309	3.25	Others: 00.00	Total: 3223224.00					
0.07	b) Actual Expenditure:       Office: 2884740       User: 222002       Othere:       Total: 2186874										
Offic	e: 2884740	<b>T</b>	User: 22309	<u>3</u>	Others:	Total: 3186874					
7.	Objectives:	To conserve To conserve	and stabilize and protect th	ne settlement							
8.	Conservation Measure / Technique applied:	Launching, T side river.	Гое-wall, Rev	etment were c	onstructed on the v	vestern embankment on the					
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 sel involved in t	ection of the a he process.	activity to imp	lementation of the	work, women were equally					
11.	Effect/impact:	Protection o	f river bank a	nd the village	side adjoining the 1	iver bank.					
12	Benefited HH	Total: 153	Dalit:	3 Janja	ati:90 Mac	lhesi: 00 Other: 60					
13	Employment Generated:	1522 Mds									
14	Problem faced:	Unavailabili	ty of construc	tion materials	and labors on time.						
15	Maintenance /	Structure rec	uires the regu	lar maintenan	ce and repairs if the	ey get damaged. However,					
16	Justainability:	Awareness	reation empo	werment and	mobilization of use	r group is essential before					
10	Lesson learned.	implementat	ion of the acti	vity.	moonization of use	group is essential before					
17	Other:	User Group	Name : Chan	ju Khola Niye	ntran Upavokta Sa	mmitee					
		Chair Persor	1: Rajendra Th	napa Magar							
		Site Incharge	e: Dinesh Patr	lak ur Kalikota							
		Unit Officer	. Dillill Dallau								
ALL ALL											

1.	Name of Activity: Gabion Che	ckdam						
2.	Name of Program: River Bank	Stablization Pr	rogram					
3.	Location: Chulachuli	Ward: 3	Place: Peltim	ari, Kuink	kel Tole			F/Y: 2076/77
4.	Name of River System: Ratuwa	River System						
5.	GPS Coordinate: E 87.741476	N 26.686364	4					
6.	Cost:- a) Estimated							
Offi	ce: 6000352.00 (With 4%	User: 444920.00		Others: 00	0.00	Total	: 6445273.00	
cont	ingency)							
	b) Actual Expenditure:	T					1	
Offi	ce: 5386554	User: 415383			Others:		Total	: 5949528
7.	Objectives:	To conserve a	and stabilize o	f river ban	ık			
		To conserve a	To conserve and protect the settlement					
8.	Conservation Measure /	Launching, T	oe-wall, Reve	tment wer	e construct	ed on the we	estern e	mbankment on
	l'echnique applied:	the side river.	the side fiver.					
9	Implementation process:	User group a	User group approach. According to the agreement, the concerned user group					
).	implementation process.	purchased the	purchased the gabion boxes, stone and completed the work by using local					
		manpower av	ailable.	, stone un	a compiete	a the work o	y asing	
10.	Gender/social consideration:	From the sele	ection of the ac	tivity to in	nplementa	tion of the w	ork, wo	omen were
		equally invol-	ved in the proc	ess.	•			
11.	Effect/impact:	Protection of	river bank an	d the villa	ge side adj	oining the riv	ver ban	k.
12	Benefited HH	Total: 65	Dalit: 5	Janiat	i: 40	Madhesi: (	)()	Other: 20
13	Employment Generated:	3015 Mds		j			-	
14	Problem faced:	Unavailability	y of constructi	on materia	als and labo	ors on time.		
15	Maintenance / Sustainability:	Structure requ	uires the regula	ar mainten	ance and r	epairs if they	/ get da	maged.
		However, ma	intenance fund	l is not all	ocated for	the project b	ut will	do when
		required.						
16	Lesson learned:	Awareness cr	eation, empov	erment ar	nd mobiliza	tion of user	group i	is essential
		before impler	nentation of th	e activity.	,			
17	Other:	User Group N	Name : Chanjı	I Khola Ni	iyentran Uj	pavokta Sam	mitee	
		Chair Person:	Bhim Kumar	Rai				
		Site Incharge	: Dinesh Patha	k				
		Unit Officer:	Bhim Bahadu	r Kalikote				



1.	Name of Activity: Recha	arge Pond Con	nstruct	tion					
2.	Name of Program: Grou	und Water Red	charge	and Util	ization of	Sub-surface Wa	iter		
3.	Location: Chulachuli		Wa	ard: 3	Place: Sh	iva Orak Pokhar	i	F/Y	: 2076/77
4.	Name of River System:	Ratuwa River	Syste	m					
5.	GPS Coordinate: E 87.7	74259	N 26.	711660					
6.	Cost:- a) Estimated								
Offic	e: 1500276 (With 4% con	ntingency)	User	r: 127086	5	Others: 00.0	00 Total:	1627	7362
	b) Actual Expendi	ture:							
Offic	e: 1442000		User: 127035			Others:	Total:	1610	)564
7.	Objectives:	Ground wate	er rech	narge					
8.	Conservation Measure / Technique applied:	Recharge po ground wate masonry and any lining. I	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 a the gabion b available.	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 sel involved in	From the selection of the activity to implementation of the work, women were equally involved in the process.						
11.	Effect/impact:	Ponds are a and storing served a nu rooted veget of augmenti	n appi water mber tation, ng gro	copriate a or in ot of purpo enhanci oundwate	and practica ther words oses like n ng natural r sources.	al means of estat for replenishin naintaining soil rates of groundy	blishing such a g the "water t moisture for t water recharge	a syst tower the gr e and	tem for collection t". The pond has rowth of shallow low cost method
12	Benefited HH	Total: 203		Dalit:	3 Ja	njati: 150	Madhesi: 00		Other: 50
13	Employment Generated:	798Mds			·	2			
14	Problem faced:	Unavailabili	ty of c	construct	ion materia	ls and labors on	time.		
15	Maintenance / Sustainability:	Structure rea maintenance	quires e fund	the regul is not all	lar mainten ocated for	ance and repairs the project but v	s if they get da will do when re	mage	ed. However, ed.
16	Lesson learned:	Awareness of implementation	creatio	n, empover the active	werment ar vity.	nd mobilization	of user group i	s ess	ential before
17	Other:	User Group Chair Person Site Incharg Unit Officer	Name n: Sar e: Din : Bhin	: Rateho Icha Raj Iesh Patha In Bahadu	oli Pokhar Limbu ak ır Kalikote	i Nirman Upavo	kta Sammitee		



1.	Name of Activity: Recharg	1. Name of Activity: Recharge Pond Construction								
2.	Name of Program: Ground	Water Recharge	and Utilization o	f Sub-surface W	ater					
3.	Location: Chulachuli	Ward: 5	Place: Aarubo	te Holi		F/Y: 2076/77				
4.	Name of River System: Rat	tuwa River Syster	n							
5.	GPS Coordinate: E 87.7195	527 N 26.7	23206							
6.	Cost:- a) Estimated									
Offi	ce: 1500051 (With 4% contingend	cy) User: 20967	'9	Others: (	00.00 T	otal: 1709730				
	b) Actual Expenditur	re:			1					
Offi	ce: 1410000	User: 209679		Others:	T	otal: 1660305				
7.	Objectives:	Ground water re	echarge							
8.	Conservation Measure / Technique applied:	Recharge pond ground water sy masonry and co without any lini	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 nasonry 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 appr the gabion boxe available.	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	From the select	From the selection of the activity to implementation of the work, women were equally							
	consideration:	involved in the	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								
12	Benefited HH	Total: 111	Dalit: 15	Janjati: 44	Madhesi: 00	Other: 52				
13	Employment Generated:	781 Mds								
14	Problem faced:	Unavailability of	of construction m	aterials and labor	s on time.					
15	Maintenance /	Structure requir	es the regular ma	intenance and rep	pairs if they get dat	maged. However,				
	Sustainability:	maintenance fur	nd is not allocate	d for the project b	out will do when re	quired.				
16	Lesson learned:									
17	17       Other:       User Group Name : Bukuwa Bhumigat Jal Punarvaran Dyam Nirman Upavokta Sammitee         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: Ranidha	ra CF	F/Y: 2076/77					
4.	Name of River System: Rat	uwa River System							
5.	GPS Coordinate: E 87.6869	39N 26.761740							
6.	Cost:- a) Estimated								
Offi	ce: 1500000 (With 4% conting	gency) User: 125222.00	Others: 00.00	Total: 1625223.00					
	b) Actual Expenditur	e:							
Offi		User: 125202.00	Otheres	Tetal: 1609721.00					
	Ce: 1442000.00	User: 125202.00	Others:	10tal: 1608/31.00					
/. 0	Conservation Measure /	Pacharga pond was constructed to	hold water as well as to per	poloto it down into the					
0.	Technique applied:	ground water system. At one and	of the spectrum of the pond	was built with boovy					
	rechnique applieu.	ground water system. At one end	of the other and are those sir	was dunt with heavy					
	without any lining. Infiltration can take place from the sides and bottoms of the ponds								
9	Implementation process:	User group approach According t	to the agreement the concern	ed user group purchased					
7.	imprementation process.	the gabion boxes stone and bamb	oo and completed the work b	v using local manpower					
	available								
10.	Gender/social	From the selection of the activity	to implementation of the wor	k, women were equally					
	consideration:	involved in the process.	1	, I J					
11	Effect/impact	Ponds are an appropriate and 1	practical means of establish	ing such a system for					
11.	Effect impact.	collection and storing water or in	other words for replenishing	the "water tower" The					
		pond has served a number of purp	oses like maintaining soil m	oisture for the growth of					
		shallow rooted vegetation, enhan	cing natural rates of ground	water recharge and low					
		cost method of augmenting ground	dwater sources.	e					
12	Benefited HH	Total: 56 Dalit: 6	Janjati: 46 Madhesi	: 00 Other: 04					
13	Employment Generated:	797 Mds							
14	Problem faced:	Unavailability of construction mat	terials and labors on time.						
15	Maintenance /	Structure requires the regular main	ntenance and repairs if they g	et damaged. However,					
	Sustainability:	maintenance fund is not allocated	for the project but will do wh	nen required.					
16	Lesson learned:								
17	Other:	User Group Name : Debi Khahare	Bhumigat Jal Punarvaran D	yam Nirman U.					
		Sammitee							
		Chair Person: Dambar bahadur L	imbu						
		Site Incharge: Dinesh Pathak							
		Unit Officer: Bhim Bahadur Kalik	cote						
L									
	AK SERAN								
			नेपाल सरकार	22					
			राष्ट्रपति चुर- तराइ नवरा सरकण विकास कार्यक्रम कार्यान्वयन इ	सामात काह					
-		a prite	सलकपुर, मारहः सत्रे नाम असिगत जल पनर्भणा र सनहमनि १. अनम	ानित लागत					
and the second		C C C C C C C C C C C C C C C C C C C	को पानी उपयोग। ५. कार्यात	त्यले व्यहोनें १५.००.०००/४०					
120	and heavy and heavy	१. आ	. त. २०७६/७७ - १०. उपभोक	पले व्यहीनेः १.२५.२२२/८१ भः लोगतः १९.२५.२२३/३१					
-		3. ee	यान र चुला चुला - ५, ३९१७ ना का समितिकी नाम देवी खहरे भुमिगत जल ११. कार्यु हु	ने सुख्य संरचनाहरू					
A DE LOS			पुनर्भरण डयाम निर्माण उपभोक्ता समिति १२. माटा र	घुन्न काम, दुगा छाप्न काम जे (रहको काम)					
-	and the second second	र उ.स. व	अध्यक्षका नाम अन्य व. (लग्बु. ८७७२२) १०८७ १४. अगर 1 ता सिति २२०७६/०८/१३ १४. आर. १	से. सि. की काम					
		0. कार्य र	सम्पन्नगर्ने मिति २०७६ - ११-२० युरकाम	ध सुरताइ सफ पाना सबलाइ					
			AND A CONTRACT OF						
	Carl Marine Carl State								

Name of Activity: Recharge P	ond Construction							
Name of Program: Ground W	ater Recharge and	Utilization of Sub-surface V	Water					
Location: Damak	Ward: 10	Place: Indreni Tal		F/Y: 2076/77				
Name of River System: Ratuw	va River System							
GPS Coordinate: E 87.677522	2 N 26.611271							
Cost:- a) Estimated								
Office: 1500000.00 (With 4%	contingency)	User:149277 .00	Others: 00.00	Total: 16499277.00				
b) Actual Expend	iture:							
Office: 1440000.00		User: 149277 .00	Others: 00.00	Total: 1630749.00				
Objectives:	Ground water rec	harge						
Conservation Measure /	Recharge pond w	as constructed to hold water	as well as to percolate	e it down into the				
Technique applied:	ground water syst	tem. At one end of the spect	rum of the pond, was	built with heavy				
	masonry and cond	crete lining, and at the other	ends are those simple	dugout types without				
Implementation process:	any lining. Infiltra	ation can take place from the	sides and bottoms of	the ponds.				
Implementation process.	gabion boxes, stone and bamboo and completed the work by using local manpower							
	available.							
Gender/social consideration:	From the selectio	n of the activity to implement	ntation of the work, we	omen were equally				
	involved in the process.							
Effect/impact:	Ponds are an app	Ponds are an appropriate and practical means of establishing such a system for collection						
-	and storing wate	r or in other words for rep	plenishing the "water	tower". The pond has				
	served a number	of purposes like maintaini	ing soil moisture for	the growth of shallow				
	rooted vegetation	, enhancing natural rates of §	groundwater recharge	and low cost method of				
Panafitad UU	augmenting groun	Idwater sources.	160 Madhesi: (	10 Other: 300				
Employment Generated	795 Mds	Dani. 50 Janjan.		0 Other. 500				
Problem faced:	Unavailability of	construction materials and l	abors on time.					
Maintenance /	Structure requires	the regular maintenance an	d repairs if they get da	amaged. However.				
Sustainability:	maintenance func	l is not allocated for the proj	ect but will do when r	equired.				
Lesson learned:		<u> </u>		- <b>1</b>				
Other:	User Group Name	e : Indreni Tal Nirman UPav	okta Sammitee					
	Chair Person: Me	edani Prasad Kharel						
	Site Incharge: Dir	nesh Pathak						
	Unit Officer: Bhu	m Bahadur Kalikote						
Althe March								
				*				
			Star 1	Real Provention				
A NEW A	-		and the second					
	And a start and a start of the start of the	A A A A A A A A A A A A A A A A A A A	2					
	Spice and the second and	AND	R. M. M. M.	a second second second				

## LODHIYA RIVER SYSTEM

1.	Name of Activity	: Gabion retaining wall									
2.	Name of Program	: Gully, Landslide and To	rrent control								
3.	Location : Teengl	nare Ward: N	/lai Municipality-10	Place: Ila	m	F/Y: 2076/077					
4.	Name of River Sy	stem : Lodhiya River Syst	em	•							
5.	GPS Coordinate :	87.94257, 26.81978									
6.	Cost:- a) Estimate	d:									
Offic	e: Rs. 20,00,000	User	: Rs. 2,05,196.18	Others:	Total:	Rs. 22,05,196.18					
	b) Actual Ex	xpenditure:									
Offic	e: Rs. 1960396	User	: 200196.18	Others:	Total:	2160592.18					
7.	7. Objectives: • To improve gully catchments to reduce and regulate the run off rates										
		<ul> <li>To conserve/prot</li> </ul>	To conserve/protect the agricultural land								
8.	Conservation	n gully control of Teenghare region, structural measures such as check dams built from									
	Measure /	nachine made Gabion box were constructed across the gully bed to stop channel and lateral									
	Technique	erosion. Check dams we	rosion. Check dams were combined with retaining walls parallel to the gully axis in order to								
-	applied:	prevent the scouring and undermining of the gully.									
9.	Implementation	User group approach. According to the agreement, concerned user group purchased the gabion									
10	process:	boxes and purchased stone to fill the gabion boxes complete the works.									
10.	Gender/social	From the selection of the activity to implementation, women equally involved in the works.									
11	Effect/immedia	To some autout the gull	u/landalida ia contr	allad mana the	n 0 5 ha A a	vioulture land has been					
11.	Effect/impact.	conserved	y/ fandslide is contr	oned, more tha	an 0.5 na. Agi	ficulture fand has been					
12	Renefited HH	Total: 32	Dalit: Iar	iati·29	Madhesi	Other:3					
13	Employment	10101. 52	Dant. Jai	ijati.29	Widditesi.	Other.5					
15	Generated:		7	50 Mds							
14	Problem faced:	User group had to move	e into the period of	workers shor	tage due to the	he labor migration for					
		foreign employment over	the years.		8	U					
15	Maintenance /	No maintenance fund is	there but user grou	ps will carry	out the repair	ment and maintenance					
	Sustainability:	work as and when require	ed.		_						
16	Lesson learned:	If user group are more	involved, the imple	ementation wil	l be easier a	nd would successfully					
		complete the work. Aw	vareness creation, e	empowerment	and mobiliza	tion of user group is					
		essential before real impl	ementation of the ad	ctivity.							
17	Other:	User Group Name: Shree	e Teenghare Pahiro	) Niyantran U	pabhokta Sai	miti					
		Chair Person: Mr. Ashok	Pithakote								
		Site Incharge: Nikesh Ka	thayat								
1	1	Unit Officer: Bhim Baha	dur Kalikote								



1.	Name of Activity : Gabi	on check wall							
2.	Name of Program : Gul	ly, Landslide an	d Torrent control						
3.	Location : Sano Bardu, 7	Гhade W	Vard: Mai Municipality-5	Place: Ilan	n	F/Y: 2076/077			
4.	Name of River System :	Lodhiya River	System						
5.	GPS Coordinate : 87.938	853, 26.80739							
6.	Cost:- a) Estimated:								
Offic	e: Rs. 25,48,294.25		User: 2,43,577.58	Others:	Total: 2	27,91,871.83			
	b) Actual Expendit	ture:							
Offic	e: Rs. 2500096	·   `	User: 2,43,577.58	Others:	Total: 2	2743673			
7.	Objectives:	• To improve gully catchments to reduce and regulate the run off rates							
		• To co:	To conserve/protect the agricultural land						
8.	Conservation Measure	After the feas	After the feasibility study of the Thade landslide site, relevant gully improvement walls						
	/ Technique applied:	which are des	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							
		robabilitata th	rehabilitate the degraded area by preventing erosion and reducing shallow seated mass						
		movement	e degraded area by prev	enting crosion	and reducing	shallow seated mass			
9.	Implementation	By adopting u	By adopting user group management approach concerned user group where responsible						
2.	process:	for implemen	taion arrangements and	solutions wer	e devised me	ethodically and with			
	I	frequent appro	priate consultation with	PIU, Salakpur.		,			
10.	Gender/social	During the im	plementation of the prog	ram, gender bal	lance was main	ntained in all areas of			
	consideration:	decision-maki	ng, and in access to and	control over res	ources and ser-	vices.			
11.	Effect/impact:	After the im	plementation of the p	rogram, freque	ency and ext	ent of landslides has			
		apparently dec	creased in the Thade reg	ion increasing t	he resilience of	of these communities			
10		against the lan	idslide effects.						
12	Benefited HH	Total: 14	Dalit: Jan	jati: 10	Madhes1:	Other: 4			
13	Employment			850 Mds					
14	Broblem faced:	User group he	d to move into the peric	d of workers a	portaga dua ta	the labour migration			
14	r iobielli faceu.	for foreign em	nove into the period	u of workers si	lor lage due to	the labour migration			
15	Maintenance /	No maintenar	nce fund is there but	user groups w	vill carry out	the repairment and			
10	Sustainability:	maintenance v	vork as and when require	d.	in carry out	the repullion and			
16	Lesson learned:	Appropriate r	planning will mitigate (	he economic a	and social co	sts which landslides			
		impose. If use	er group are more invol	ved, the implen	nentation will	be easier and would			
		successfully c	omplete the work.	ľ					
17	Other:	User Group N	ame: Shree Thade Pahi	ro Niyantran S	amiti				
		Chair Person:	Mr. Padam Bahadur Ran	a					
		Site Incharge:	Nikesh Kathayat						
		Unit Officer: I	Bhim Bahadur Kalikote						



1.	Name of Activity : Gabi	on Retaining w	vall						
2.	Name of Program : Gu	lly, Landslide	and Torrent control						
3.	Location : Sunarbhanjhy	vang V	Vard: Mai Municipa	ality-5	Place: Ilam	F/Y	: 2076/077		
4.	Name of River System :	Lodhiya Rive	er System						
5.	GPS Coordinate : 87.924	461, 26.78822							
6.	Cost:- a) Estimated:								
Offic	e: Rs. 1,451,705.75		User: Rs. 74,284.8	30	Others:	Total: Rs. 1	,525,990.55		
	b) Actual Expendi	ture:							
Offic	e: Rs. 1435088		User: Rs. 74284.8	0	Others:	Total: Rs. 1	509372.8		
7.	Objectives:	To assess th	ne site, determine	a cost ef	ffective solutio	n and then de	sign, survey and		
		implement th	e necessary work in	n order to	control landslic	le of Sunarbhar	ijyang region.		
0		To conserve/	To conserve/protect the agricultural land and nearby roads.						
8.	Conservation Measure	Stones filled	Stones fined machine made gabion retaining wall, an economical engineering approach						
	7 Technique apprieu.	Altogether (	Altogether Gabion boxes, were used to improve the gully catchments to reduce and						
		regulate the r	regulate the run-off rates						
9.	Implementation	By adopting	By adopting user group management approach concerned user group where responsible						
	process:	for impleme	ntaion arrangemen	ts and so	olutions were	devised metho	dically and with		
	1	frequent appr	frequent appropriate consultation with PIU, Salakpur.						
10.	Gender/social	From the selection of the activity to implementation, womens were equally involved in the							
	consideration:	work.							
11.	Effect/impact:	After the in	mplementation of	the prog	gram, frequenc	y and extent	of landslides has		
		apparently de	ecreased preventing	destruction	on of infrastruc	ture and damag	e to land and loss		
10		of natural res	ources.			11 '			
12	Benefited HH	Total:	Dalit:2	Janjati	: 25 M	adhes1:	Other: 15		
13	Employment			3	00 Mds				
14	Broblem faced:	User group h	ad to move into th	o poriod (	of workers shor	taga dua ta tha	Jahour migration		
14	r iobielli faceu.	for foreign e	moloyment over the	vears	DI WOIKEIS SHOI	tage due to the	labour migration		
15	Maintenance /	No mainten	ance fund is there	years. hut use	er groups will	carry out the	repairment and		
10	Sustainability:	maintenance	work as and when a	equired.	a groups win	carry out the	repuirment und		
16	Lesson learned:	Appropriate	planning will mit	igate the	economic and	l social costs	which landslides		
		impose. If us	ser group are more	involved	l, the implement	tation will be	easier and would		
		successfully	complete the work.		· · ·				
17	Other:	User Group I	Name: Shree Sunai	. Bhanjya	ang Pahiro Niy	antran Samiti			
		Chair Person	: Mr. Tek Bahadur	Limbu					
		Site Incharge	: Nikesh Kathayat						
		Unit Officer:	Bhim Bahadur Kal	ikote					



1.	Name of Activity : Gab	ion Retaining	wall						
2.	Name of Program : Gul	ly, Landslide	and Torrent control						
3.	Location : Teenghare	Ward	: Mai Municipality-9	Place: I	lam	F/Y: 2076/077			
4.	Name of River System :	Lodhiya Rive	er System						
5.	GPS Coordinate : 87.942	260, 26.81980							
6.	Cost:- a) Estimated:								
Offic	e: Rs. 20,00,000.00		User: Rs. 1,67,516.4	6 Others:	Total: I	Rs. 21,67,516.46			
	b) Actual Expendi	ture:							
Offic	e: Rs. 1973760		User: Rs. 1,67,516.4	6 Others:	ers: Total: Rs. 2141276.46				
7.	Objectives:	• To i	mprove gully catchme	nts to reduce and	regulate the run	off rates			
		• To <b>c</b>	conserve/protect the ag	ricultural land					
8.	Conservation Measure	In gully con	In gully control of Teenghare region, structural measures such as checkdams built from						
	/ Technique applied:	machine ma	machine made Gabion box were constructed across the gully bed to stop channel and						
		in order to p	revent the scouring an	d undermining of	taining wans part	faller to the guily axis			
	Implementation	User group	User group approach. According to the agreement, concerned user group purchashed the						
9	process.	gabion boxe	gabion boxes and purchased stone to fill the gabion boxes complete the works						
<i>.</i>	process.	guoton boxe	guoron boxes und purchased stone to fin the guoron boxex complete the works.						
10.	Gender/social	From the selection of the activity to implementation, women equally involved in the							
	consideration:	works.							
11.	Effect/impact:	To some ext	tend, the gully/ landsli	de is controlled,	more than 0.5 ha	a. agriculture land has			
10		been conserv	ved.	<b>X X X X</b>					
12	Benefited HH	Total: 33	Dalit:	Janjati: 29	Madhes1:	Other: 4			
13	Employment Generated:			750 Mds					
14	Problem faced:	User group	had to move into the t	period of workers	shortage due to	the labour migration			
		for foreign e	employment over the y	ears.	shortage and to	, the hooder highwoon			
15	Maintenance /	No maintair	nance fund is there	but user groups	will carry out	t the repairment and			
	Sustainability:	maintainanc	e work as and when re	quired.	2				
16	Lesson learned:	If user gro	oup are more involv	ed, the implement	entation will b	e easier and would			
		successfully	complete the work. A	Awareness creation	n, empowermen	nt and mobilization of			
		user group is	s essential before real i	mplementation of	f the activity.				
17	Other:	User Group	Name: Shree Teengha	re Ratekholsi Pah	iro Niyantran Uj	pabhokta Samiti			
		Chair Person	n: Mr. Manoj Kumar N	lagar					
		Site Incharge	e: Nikesh Kathayat						
		Unit Officer	: Mr. Bhim Bahadur K	alikote					



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1.	Name of Activity	: Gabion Retaining wa	all, Bamboo Plantati	on							
2.	Name of Program	: Gully, Landslide and	d Torrent Control								
3.	Location : Bolgau	n Wai	rd: Mai Municipality	-10	Place: Ila	m	F/Y:	2076/077			
4.	Name of River Sy	stem : Lodhiya River	System		•						
5.	GPS Coordinate :	87.93183, 26.81956									
6.	Cost:- a) Estimate	d:									
Offic	e: Rs. 20,00,000.00	1	User: Rs. 1,42,672.60	0	Others:	Total:	Rs. 21	,42,672.60			
	b) Actual Ex	xpenditure:									
Offic	e: Rs. 1944770.4	1	User: Rs. 1,42,672.60	0	Others:	Total:	Rs 20	87443			
7.	Objectives:	<ul> <li>To control gu</li> </ul>	ully and landslide.								
		To conserve/	protect the agricultur	ral land	d.						
8.	Conservation	In gully control of D	In gully control of Dhodeni region, structural measures such as checkdams built from machine								
	Measure /	made Gabion box we	ere constructed acros	s the g	ully bed to s	top channel a	nd late	ral erosion.			
	Technique										
	applied:										
0	Implementation	User group approach. According to the agreement, concerned user group purchashed the gabion									
9.	process:	boxes and purchased stone to complete the works.									
10.	Gender/social	From the selection of the activity to implementation, women equally involved in the works.									
	consideration:										
11.	Effect/impact:	To some extend, the	gully/ landslide is co	ontrolle	ed, more than	n 0.5 ha. agric	ulture	land has been			
12	Benefited HH	Total: 69	Dalit: 15	Janiat	i: 23	Madhesi		Other: 21			
13	Employment	10000109	Duitt. 10			1014 diffesti		0 1101 21			
	Generated:			750	Mds						
14	Problem faced:	User group had to n	nove into the period	l of wo	orkers short	age due to the	e labo	ur migration for			
		foreign employment	over the years.			-		-			
15	Maintenance /	No maintainance fur	nd is there but user g	groups	will carry o	out the repairm	nent ai	nd maintainance			
	Sustainability:	work as and when rea	quired.								
16	Lesson learned:	If user group are m	ore involved, the ir	nplem	entation wil	l be easier ai	nd wo	uld successfully			
		complete the work.	Awareness creation	n, emp	powerment	and mobilizat	tion of	f user group is			
		essential before real i	implementation of th	e activ	ity.						
17	Other:	User Group Name: S	hree Gewa Bolgaur	n Dhod	leni Pahiro	Niyantran U <sub>l</sub>	pabho	kta Samiti			
		Chair Person: Mr. Bi	nod Nemwang Limb	u							
		Site Incharge: Nikesh	h Kathayat								
		Unit Officer: Mr. Bh	1m Bahadur Kalikote	•							



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1.	Name of Activity : Gab	ion Retaining	wall						
2.	Name of Program : Gull	y Landslide a	nd Torrent Control						
3.	Location : Bistagaun	V	Vard: Mai Municipal	lity-9	Place: Ilam	F/	Y: 2076/077		
4.	Name of River System :	Lodhiya Riv	er System						
5.	GPS Coordinate : 26.78	0131, 87.7996	51						
6.	Cost:- a) Estimated:								
Offic	e: Rs. 20,00,000.00		User: Rs. 2,27,901	.48	Others:	Total: Rs.	22,27,901.48		
	b) Actual Expendi	ture:							
Offic	e: Rs. 1973760		User: Rs. 2,27,901	.48	Others:	Total: Rs.	2201661		
7.	Objectives:	To assess t	he site, determine	a cost et	ffective solution	and then d	esign, survey and		
		implement t	mplement the necessary work in order to control landslide of Bistagaun region						
		To conserve	/protect the agricult	ural land a	and nearby roads				
8.	Conservation Measure	vation Measure Stones filled machine made gabion retaining walls, an economical engineering approach							
	/ Technique applied:	were installe	vere installed around the affected site.						
	Implementation	By adopting	By adopting user group management approach, concerned user group where responsible						
9.	process:	for impleme	for implementation arrangements and solutions were devised methodically and with						
10		frequent app	frequent appropriate consultation with PIU, Salakpur.						
10.	Gender/social	During the 1	During the implementation of the program, gender balance was maintained in all areas of						
11	consideration:	decision-ma	king, and in access t	o and cor	trol over resource	es and servic	ces.		
11.	Effect/impact:	After the i	implementation of	the prog	gram, frequency	and extent	t of landslides has		
		apparently d	lecreased preventing	destructi	on of infrastructu	re and dama	ige to land and loss		
10	DeneficadIIII	Of natural re	Sources.	Inniat	. 55 Mar	11	Othern 25		
12	Emerileument	10tal: 100	Dant:10	Janjat	1: 55 Mac	inesi:	Other: 55		
15	Generated:			5	00 Mds				
14	Problem faced	Due to the s	hortage of local lab	ours larg	e proportion of ir	nnorted labo	our on construction		
17	i iobieni ideed.	of gabion en	nbankment created t	he constru	uction a bit costly		on construction		
15	Maintenance /	Replanting	vegetative materials	and lini	ng out of constru	iction and c	hannels should be		
_	Sustainability:	done at least	every season for the	e sustaina	bilty of the struct	ure.			
16	Lesson learned:	A gully dev	velops in three disti	nct stage	s; waterfall erosi	on; channel	erosion along the		
		gully bed; a	nd landslide erosion	on gully	banks. Correct g	gully control	measures must be		
		determined a	according to these de	evelopme	nt stages.				
17	Other:	User Group	Name: Shree Bistag	aun Thul	o Pahiro Niyantra	n Samiti			
		Chair Person	n: Mr. Mani Gurung		-				
		Site Incharg	e: Nikesh Kathayat						
		Unit Officer	: Mr. Bhim Bahadur	Kalikote	;				



1.	Name of Activity : Gabi	on check dam							
2.	Name of Program : Gul	ly Landslide ar	nd Torrent Control						
3.	Location : Sombare	W	ard: Mai Municipali	ity-9	Place: Ilar	n	F/Y: 2076/077		
4.	Name of River System :	Lodhiya Rive	r System		1				
5.	GPS Coordinate : 26.840	0454, 87.92647	71						
6.	Cost:- a) Estimated:								
Offic	e: Rs. 20,00,000.00		User: Rs. 1,91,299	.14	Others:	Total:	Rs. 21,91,299.14		
	b) Actual Expendit	ture:				·			
Offic	e: Rs. 1970676		User: Rs. 191299 Others: Total: Rs2161975				Rs2161975		
7.	Objectives:	• To co	ontrol gully and land	lslide					
		• To co	onserve/protect the a	agricultur	al land				
8.	Conservation Measure	Stones filled	Stones filled machine made gabion checkdams/retaining wall, an economical engineering						
	/ Technique applied:	approach was	approach was employed after earthwork around the affected site in Sombare region.						
	Implementation	User group a	Jser group approach. According to the agreement, the concerned user group purchashed						
9.	process:	the gabion bo	the gabion boxes and purchased stone to complete the work.						
10.	Gender/social	From the sele	From the selection of the activity to implementation, women were equally involved in all						
	consideration:	stages of the work.							
11.	Effect/impact:	To some exte	end, the gully/ lands	lide is co	ontrolled, mo	ore than 0.2 h	a. agriculture land has		
		been conserv	ed.						
12	Benefited HH	Total: 42	Dalit:11	Janjati	i: 21	Madhesi:	Other: 10		
13	Employment			5	50 Mds				
	Generated:								
14	Problem faced:	User group h	ad to move into the	e period o	of workers sl	hortage due to	o the labour migration		
1.5		for foreign er	nployment over the	years.	<u>C 1</u>	1.00	6 1 11		
15	Maintenance /	After the con	nstruction and com	pletion c	of the structu	ures at differ	ent parts of the gully		
	Sustainability:	regular maint	renances have to be	carried c	out. However	r, no maintain	ance fund is allocated		
16	Losson loornad:	Appropriate	ps will do will miti	uire anto tho	aconomia	and social of	oste which landelidee		
10	Lesson learneu.	impose If us	plaining will link	involved	the implement	and social co	be easier and would		
		successfully	complete the work	IIIvolved	, the implem	inclutation with	i be easier and would		
17	Other <sup>.</sup>	User Group N	Name: Shree Somb	are Chur	re Pahiro Ni	vantran Sam	niti		
1,		Chair Person	: Mr. Anil Tamang			Januari Juli			
		Site Incharge	: Nikesh Kathavat						
		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, C	hisapani W	Vard:	Mai Municipalit	ty-9	Place: Ila	m	F/Y	: 2076/077	
4.	Name of River System :	Lodhiya River	r Sys	tem		•				
5.	GPS Coordinate : 87.92	087, 26.85009								
6.	6. Cost:- a) Estimated:									
Offic	e: Rs. 20,00,000.00		User	:: Rs.2,57,314.96	5	Others:	Tota	ıl: Rs. 2	2,57,314.96	
	b) Actual Expendi	ture:								
Offic	e: Rs. 1961424		User	:: Rs.257314		Others:	Tota	Total: Rs. 2218738		
7.	Objectives:	• To re	duce	sediment transp	ortatio	n and thus to	minimize b	bed and	bank erosion	
		• To pi	reven	t and mitigate th	he flas	h floods and	general flo	ood, as	well as to ensure	
		safe p	passa	ge of flood						
8.	Conservation Measure	Stones filled	mach	ine made gabior	n check	kdams/embai	nkments, an	econor	nical engineering	
	/ Technique applied:	approach wa	s un	dertaken to imp	prove t	the site and	its banks	in orde	er to change the	
		waterway pat	ttern	and reduce the	veloci	ty of flow.	Altogether,	145 G	abion box (size=	
	Implementation	Dy adopting y			propos	reach conc	ornad usar	aroun u	where responsible	
0	process:	for implement	ntaio	group managem	and a	plutions we	re devised	group v method	dically and with	
).	process.	frequent appr	onria	te consultation v	with PI	U Salaknur	ic ucviscu	metho	alcally and with	
10.	Gender/social	During the in	nplen	nentation of the i	program	m. gender ba	lance was r	naintair	ned in all areas of	
	consideration:	decision-mak	ing, a	and in access to a	and con	ntrol over res	sources and	service	s.	
11.	Effect/impact:	To some exte	end, t	he gully/ landsli	de is c	ontrolled, m	ore than 0.1	ha. ag	riculture land has	
	-	been conserve	ed.					-		
12	Benefited HH	Total: 85		Dalit:10	Janjat	i: 50	Madhesi:		Other: 25	
13	Employment				f	550 Mds				
	Generated:		_							
14	Problem faced:	It was difficu	lt to	get labour contri	bution	from the use	er group to f	ulfill th	eir role in people	
1.7		participation	due t	o their unwilling	ness to	take part in	the work.		1	
15	Maintenance /	If possible cl	heck	dams should be	e inspe	ected regular	ly for sedi	ment ac	cumulation after	
	Sustainability:	each significa	ant r	ainfall. Sedimen	t snou	la be remov	ed when it	reache	s one-nair of the	
16	Lesson learned:	Each continue		ully in a gully of	ustom (	should be rea	arded as a	basic tr	eastment unit and	
10		all the control	l mes	sures in that unit	t shoul	d he finished	before the	rainv se	eachent unit, and	
17	Other:	User Group N	Jame	: Shree Rangapa	ni Pahi	iro Sanraksh	an Samiti	ianiy St		
1,		Chair Person:	Mr.	Ganesh Tamang	[					
		Site Incharge	: Nik	esh Kathayat	2					
	Unit Officer: Mr. Bhim Bahadur Kalikote									



1.	. Name of Activity : Pond excavation, RCC check dam, Stone Masonry Wall						
2.	Name of Program : Gro	und Water Recharg	e and Utilization	of Sub surface wa	ter		
3.	Location : Fulbari	Ward: M	ai Municipality-	7 Place: Ila	.m	F/Y: 2076/077	
4.	Name of River System :	Lodhiya River Sys	stem				
5.	GPS Coordinate : 26.770	665, 87.80763					
6.	Cost:- a) Estimated:						
Offic	e: Rs. 15,00,000.00	Use	r: Rs. 1,62,809.6	66 Others:	Total:	1,662,809.66	
	b) Actual Expenditure:						
Offic	Office: Rs. 1469012         User: Rs. 162809         Others:         Total: 1631821					1631821	
7.	Objectives:	To store as much i	ainwater as pos	sible where it falls	during the mo	onsoon and save it for	
		non-rainy season ei	ther in the pond	itself or through re	charge in the g	roundwater below it.	
8.	Conservation Measure	Recharge pond w	as constructed t	o hold water as w	ell as to perco	plate it down into the	
	/Technique applied:	ground water sys	tem. At one er	id of the spectrum	of the pond,	was built with heavy	
		masonry and cond	crete lining, and	at the other ends and a side of the side o	re those simple	the ponds	
	Implementation	By adopting user	group managem	ent approach con	arned user gro	une polius.	
9	process:	for implementaio	n arrangements	and solutions we	ere devised m	ethodically and with	
		frequent appropriate consultation with PIU Salakpur					
10.	Gender/social	During the implementation of the program, gender balance was maintained in all areas of					
	consideration:	decision-making,	and in access to	and control over re	sources and ser	rvices.	
11.	Effect/impact:	Ponds are an appr	opriate and prac	tical means of esta	blishing such a	a system for collection	
	-	and storing water	or in other word	ls for replenishing	the "water tow	er". Constructed pond	
		water has already	been used for	watering animals	and kitchen ga	ardens irrigation. The	
		pond has served a	number of othe	r purposes like mai	ntaining soil m	noisture for the growth	
		of shallow rooted	l vegetation, enh	ancing natural rate	es of groundwa	ater recharge and low	
10	Demefited IIII	cost method of au	gmenting ground	lwater sources.	Matheast	Others 11	
12	Employment	1 otal: 61	Dalit:	Janjati: 50	Madnes1:	Other: 11	
15	Generated:			250 Mds			
14	Problem faced	One of the striki	ng characteristic	s of this region is	that the peop	ole have depended on	
	i iooioini iucou.	income from sour	ces outside the r	egion because the i	ncome from th	e farm production has	
		not been sufficie	nt to meet thei	r needs. Scenarios	such as the	insufficient irrigation	
		system has resulte	d low farm prod	uction.		C	
15	Maintenance /	No maintainance	fund is there	but user groups	will carry out	t the repairment and	
	Sustainability:	maintainance wor	k as and when re	equired.			
16	Lesson learned:	If user group a	re more involv	red, the implement	ntation will b	e easier and would	
		successfully comp	plete the work.	Awareness creation	, empowermer	nt and mobilization of	
17	0.1	user group is esse	ntial before real	implementation of	the activity.		
17	Other:	User Group Name	: Shree Fulbari	Bahuupayogi Pokha	ari Nirman Upa	abhokta Samiti Chair	
		Site In charge: Ni	Banadur Kai				
		Unit Officer: Phi	n Bahadur Kalik	ota			
	1	Unit Officer: Bhi	n Danauur Kalik				



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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, T	'hotari	Ward: Mai Municipality-7	Place: Ilam	F/	Y: 2076/077		
4.	Name of River Syste	m: Lodhiya Rive	er System		·			
5.	GPS Coordinate : 26	.82208, 87.91662						
6.	6. Cost:- a) Estimated:							
Offic	Office: Rs. 22,27,920.00         User: Rs. 3,77,281.00         Others:         Total: Rs. 26,05,201.00							
b) Ac	tual Expenditure:				1			
Offic	e: Rs. 2173192	Γ	User: Rs. 377281	Others:	Total: Rs.	. 2550473		
7.	Objectives:	To store as much rainy season eith	n rainwater as possible wher her in the pond itself or throu	e it falls during the gh recharge in the	e monsoon a groundwate	and save it for non- er 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 use implementaion appropriate cons	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	During the impl	During the implementation of the program, gender balance was maintained in all areas of					
11.	Effect/impact:	Constructed por irrigation. The p the growth of sh low cost method	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 sugmenting groundwater sources.					
12	Benefited HH	Total: 75	Dalit: 25 Janja	ti: 44 Mad	hesi:	Other: 6		
13	Employment Generated:		65	50 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 work as and whe	fund is there but user group en required.	os will carry out th	e repairmer	nt and maintenance		
16	Lesson learned:	If user group ar complete the we essential before	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:	essential before real implementation of the activity. User Group Name: <b>Shree Pandau Bahuupayogi Pokhari Nirman Upabhokta Samiti</b> 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 : Kichkan	ya holi	Ward: Chulachuli RM-1	Place: Ilam	F/Y	Y: 2076/077		
4.	Name of River Syst	em : Lodhiya Rive	er System					
5.	GPS Coordinate : 26.62628, 87.78294							
6.	6. Cost:- a) Estimated:							
Office: Rs. 15,00,000.00         User: Rs. 182382.15         Others:         Total: Rs. 1682382.15						1682382.15		
b) Ac	tual Expenditure:							
Offic	e: Rs. 1480320		User: Rs. 182382.15	Others:	Total: Rs16	562702.15		
7.	Objectives:	To store as much rainy season eithe	rainwater as possible wher er in the pond itself or through	e it falls during the gh recharge in the g	monsoon an groundwater l	nd save it for non- 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 Janja	ti: 57 Mad	hesi:	Other: 28		
13	Employment Generated:	650 Mds						
14	Problem faced:	Shortage of skille	ed manpower caused delay in	n the work complet	ion.			
15	Maintenance / Sustainability:	No maintainance work as and when	fund is there but user group n required.	os will carry out the	e repairment	and maintainance		
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: <b>Kichkanya Jal Punarbharan Pokhari Nirman Upabhokta Samiti</b> Chair Person: Mr. Jeet Bahadur Aangdembe Site Incharge: Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote						





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1.	Name of Activity : Rain water run off harvesting RCC dam							
2.	2. Name of Program : Ground Water Recharge and Utilization of Sub surface water							
3.	Location : Hattileda	Ward: Chulac	nuli RM-1	Place: Ila	m		F/Y: 2	2076/077
4.	Name of River Syst	em: Lodhiya Rive	er System					
5.	5. GPS Coordinate :26.69262, 87.77741							
6.	Cost:- a) Estimated:							
Offic	Office: Rs. 1500000.00 User: Rs. 182468.67 Others: Total: Rs. 1682468.67							82468.67
b) Ac	tual Expenditure:							
Offic	e: Rs. 1482376		User: Rs. 18246	8.67	Others:	Total:	Rs. 166	54844.67
7.	Objectives:	To store as much rainy season eithe	rainwater as pos r in the pond itse	sible where If or throug	e it falls durii gh recharge ir	ng the monsoon the groundw	on and s ater bel	save it for non- low 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:	mplementation rocess: 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 imple decision-making,	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 pone irrigation. The po- the growth of sha low cost method	d water has alreaded and has served a readed llow rooted vege of augmenting groups	ndy been the number of the tation, enh	used for wat other purpose ancing natura sources.	ering animals es like mainta al rates of grou	and k ining so undwate	titchen gardens oil moisture for er recharge and
12	Benefited HH	Total: 90	Dalit: 18	Janja	ti: 52	Madhesi:		Other: 30
13	Employment Generated:	650 Mds					·	
14	Problem faced:	Provide 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 /	No maintainance	fund is there but	user group	os will carry o	out the repairr	nent an	d maintainance
15	Sustainability:	work as and when	n 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: <b>Dahalkhosi jalpunarbharan Pokhari Nirman Upabhokta Samiti</b> Chair Person: Mr. Sukar Raj Lawati Site Incharge : Dinesh Pathak Unit Officer: Bhim Bahadur Kalikote						

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# SUNSARI (SARDU SEUTI) RIVER SYSTEM

1.	. Name of Activity: Gabion Box Breast wall, lunching and Check Dam							
2.	Name of Program: Gully, Landslide Protection Program							
3.	Location: Dharan U.M. N	Na.Pa. W	ard: 20 Place	: Karkichap, Dev	vigaun, F	F/Y: 2076/77		
4.	Name of River System: S	Sunsari (Sardu seut	i) River System	1				
5.	GPS Coordinate: E 87 <sup>0</sup> 1:	5'16.89'' N 2	26°49'38.32''					
6.	Cost:- a) Estimated:							
Office	e: 3840000	User: 165131		Others:	Total: 4165131(Incl	uding Contingency)		
	b) Actual Expenditu	ure:						
Office	e: 3947520	User: 165131		Others:	Total: 4112651			
7.	Objectives:	• To protect R	iver Bank and	adjacent farm lar	nd and Forest Area			
		To conserve	and protect the	settlement.				
8.	Conservation Measure /	Launching, 7	Гое-wall, Revet	ment were constr	ructed on the earthe	n embankment on the		
	Technique applied:	side river.						
		Bamboo plar	ntation was don	e on the slope of	the earthen embank	kment.		
9.	Implementation process:	User group approx	ach. According	to the agreement	, the concerned use	r group purchased the		
		gabion boxes, stor	ne and complete	ed the work by us	sing local manpowe	er available.		
10.	Gender/social	From the selection	n of the activity	to implementation	on of the work, wor	nen were equally		
	consideration:	involved in each s	step of the proce	ess.				
11.	Effect/impact:	• River Bank e	erosion is minin	nized and provide	ed safe the adjacent	household and forest.		
		• In total 100 h	nouse holds are	benifitted from t	he programme.			
		Minimized th	he flood disaster	r on farm land.				
12	Benefited HH	Total: 15	Dalit:	Janjati: 130	Madhesi:	Others: 145		
13	Employment Generated:	550 md		•				
14	Problem faced:	Boulder colle	ection work bec	ame difficult it v	vere collected from	distant region .		
15	Maintenance /	No maintainance	fund is there bu	t user groups wil	l carry out the repai	irment and		
	Sustainability:	maintenance work	k as and when re	equired.				
16	Lesson learned:	If user group are r	more involved,	the implementati	on will be easier an	d would successfully		
		complete the worl	k. Awareness cr	reation, empower	ment and mobilizat	ion of user group is		
		essential before re	eal implementat	ion of the activity	у.			
17	Other:	User Group Name	e: Sardu Pakuwa	a khola Niyantra	n U.G.			
		Chair Person: Bija	aya Tamang					
		Site Incharge: Nir	aj Prasad Daha	1				
	Unit Officer: Bhim Bahadur Kalikote							





1.	1. Name of Activity: Gabion Box Revetment and Lunching Apron, Bioengineering								
2.	2. Name of Program: River Bank Stabilization Program								
3.	Location: Dharan U.M. Na	ı.Pa. Wa	rd: 13 Place	: Devimarga,	Sardu Khola I	F/Y: 2076/77			
4.	Name of River System: Su	nsari (Sardu, Seuti) I	River System						
5.	5. GPS Coordinate: E $87^{0}16'57.85''$ N $26^{0}49'59.31''$								
6.	6. Cost:- a) Estimated:								
Office	: 7200000	User: 540321		Others:	Total: 8040321(In	cluding Contingency)			
	b) Actual Expenditure:								
Office	: 7401600	User: 540321		Others:	Total: 7941921				
7.	Objectives:	To protect Rive	er Bank and ad	jacent farm la	nd.				
		• To conserve an	nd protect the se	ettlement.					
8.	Conservation Measure /	• Launching, To	e-wall, Revetm	ent were cons	tructed on the side	river.			
	Technique applied:	Bamboo Planta	ation was done	on the slope.					
9.	Implementation process:	User group approac	h. According to	the agreemer	nt, the concerned us	ser group purchased			
		the gabion boxes, st	one and compl	eted the work	by using local man	power available.			
10.	Gender/social	From the selection of the activity to implementation of the work, women were equally							
	consideration:	involved in each ste	p of the proces	s.					
11.	Effect/impact:	• River Bank ero	osion is minimi	zed and provid	led safe the adjace	nt household.			
		• In total 600 ho	ouse holds are b	penifitted 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:	Boulder collect	tion work beca	me difficult it	were collected from	n distant region .			
15	Maintenance /	No maintainance fu	nd is there but	user groups w	ill carry out the rep	airment and			
	Sustainability:	maintenance work a	is and when rec	luired.					
16	Lesson learned:	If user group are mo	ore involved, th	e implementa	tion will be easier a	and would			
		successfully comple	ete the work. A	wareness crea	tion, empowermen	t and mobilization of			
		user group is essent	ial before real i	mplementatio	n of the activity.				
17	Other:	User Group Name: Sardu Khola Bandhi Niyantran U.G.							
		Chair Person: Sunda	ari Shrestha						
		Site Incharge: Niraj	Prasad Dahal						
	Unit Officer: Bhim Bahadur Kalikote								





1.	. Name of Activity: Plumb Concrete, Bioengineering							
2.	2. Name of Program: River Bank Stabilization Program							
3.	Location: Dharan U.M. N	a.Pa. Wa	rd: 16 Place	: Punya Marg,	Sardu Khola	F/Y: 2076/77		
4.	Name of River System: S	unsari (Sardu, Seuti)	River System					
5.	5. GPS Coordinate: E $87^{0}16'26.93''$ N $26^{0}49'36.24''$							
6.	Cost:- a) Estimated:							
Office	Office: 4800000 User: 604590 Others: Total: 5604590 (Including Contingency)							
	b) Actual Expenditur	re:		·				
Office	e: 4934400	User: 604590		Others:	Total: 5538990			
7.	Objectives:	To protect Riv	er Bank and a	djacent farm la	nd.			
		• To conserve an	nd protect the s	ettlement.				
8.	Conservation Measure /	Plumb Concret	te on the side r	iver.				
	Technique applied:	Bamboo Planta	ation was done	on the slope .				
9.	Implementation process:	ocess: User group approach. According to the agreement, the concerned user group purchased						
		the cement, stone an	nd completed the	he work by usin	ng local manpowe	er available.		
10.	Gender/social	From the selection of	of the activity t	o implementat	ion of the work, v	women were equally		
	consideration:	involved in each ste	ep of the proces	SS.				
11.	Effect/impact:	• River Bank ero	osion is minimi	zed and provid	led safe the adjace	ent household.		
		• In total 500 ho	ouse 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:	meterials colle	ction work bec	ame difficult it	were collected fi	rom distant region .		
15	Maintenance /	No maintainance fu	nd is there but	user groups wi	ll carry out the re	pairment and		
	Sustainability:	maintenance work a	as and when rea	quired.				
16	Lesson learned:	If user group are mo	ore involved, th	ne implementat	ion will be easier	and would		
		successfully comple	ete the work. A	wareness creat	ion, empowermer	nt and mobilization of		
		user group is essent	ial before real	implementation	n of the activity.			
17	Other:	User Group Name:	Sardu Khola B	andhi Niyantra	ın U.G.			
		Chair Person: Chet	Bahadur Rai					
		Site Incharge: Niraj	Prasad Dahal					
1	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: 16Place: Pulchowk, Sardu KholaF/Y: 2076/77					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	e: 2400000	User: 381395		Others:	Total: 2881395 (Including Contingency)	
	b) Actual Expendit	ire:				
Office	e: 2467200	User: 381395		Others:	Total: 2848595	
7.	Objectives:	<ul> <li>To protect River Bank and adjacent farm land.</li> <li>To conserve and protect the settlement.</li> </ul>				
8.	Conservation Measure /	Plumb Concrete on the side river.				
	Technique applied:	• 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	From the selection of the activity to implementation of the work, women were equally				
	consideration:	involved in each step of the process.				
11.	Effect/impact:	• 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:	• meterials collection work became difficult it were collected from distant region .				
15	Maintenance /	No maintainance fund is there but user groups will carry out the repairment and				
	Sustainability:	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				



