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IWRMP (AF) - COMPONENT A Manghat Subproject Completion Report

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IWRMP (AF) - COMPONENT A Manghat Subproject Completion Report

Name of Subproject	Manghat	Ecological	Belt	Hill	
Municipality & Ward No(s)	Suwarnawati rural Municipality w	District	Rolpa		
SUBPROJECT DESCRIPTION					

Brief Description of Subproject

This sub project has a long history. The peoples of the command area tried to built it some 100 years ago. In the Panchayat era, they approched District panchayat for financial help to construct the canal. They received some financial help but that was too little to complete the canal construction. Their request to construct the canal was conveyed to the king of Nepal as per the order of the king it was incorporated in ILC program. The system was rehabilitated in this program but difficult and water percolating sections were not covered properly. Users had to suffer from water loss and they again approached to IDD Pyuthan for cooperation. IDD pyuthan carried out the investigation and prepared detail estimate to execute the subproject. Later, this sub-project came under IDD Rolpa and rehabilitation work is completed. This system follows a very stable alignment and irrigates all the land of manghat command area at a time. No rotation is needed for irrigation. The command area is a terraced land with settlement just above the canal. The command area is suitable for varieties of crops including rice, wheat, maize, vegetables etc. The intake is very easy and stable requireing negligible effort to feed the canal.There are no any land slide area but recent competition in opening road track in varius settlement without proper plannaing has damaged built structures and cropped area also. The hapazard disposal of excavated material including hard rocks is sure to invite fatal accidents and loss of life and property. This phenomenon is likely to trigger huge loss of land in floods of coming rainy season. This canal is also seriously damaged in many points requiring more resources to repair and make it operable.

Size of Command Area	Gross	60	ha	Net	50 ha
Location of Centre of Command Area	Northing Easting	28° 39 82° 7	' <u>26.00</u> ' <u>14.00</u>	"	
Distance from Command Area to:					
nearest road accessible by jeep/t	ractor				5 km
nearest paved road					15 km
nearest urban centre/market	(name)	Satdobate			25 km
nearest local IDD/IDSD/GWIDD	office (name)) Leewang			30 km
nearest local DADO office	(name)) Leewang			30 km
Source(s) of Irrigation Water Supply					
Source Reference Loc	ation of Headwo	orks	Measured F	low	Comments
1 Name Phera Khola N	28° 39'	26.00 "	50	lps	At the time of site
Type Pernnial E	82°7'	13.90 "	29 Apr 18	date	visit.
2 Name N	° ''	"		lps	
Type E	° '''	"		date	
3 Name N		"		Ine	
				l late	
Type E				auto	

IWMRP INTERVENTION

Irrigation Water Supply

Source	Target Supply	Actual Fl	ow Rat	e Measurements		
1	100 l/s		50 l/s	29 Apr 18 date	l/s	date
2	l/s		l/s	date	l/s	date
3	l/s		l/s	date	l/s	date
Total	100 l/s		50 l/s		0 l/s	
Duty	2.000 l/s/ha	1.0	000 l/s/ł	าล	- l/s/h	a
Infrastruct	ture Development Wo	orks unde	er IWRI	MP		
Name and	Description of Structur	е	Key	<i>v</i> Dimensions	<u>Qı</u> Planned in DFSF	<u>uantity</u> २ Constructed
Side Intak	e		2m Ionę	wide and 10 m g	1	1
Superpass	age		2 m Ionę	i wide and 1.5 m g	6	6
Foot Bridge	e		2 m Ionę	i wide and 1.5 m g	6	6
Retaining v	wall		10 i higi	m long and 4 m า	1	1
Outlets			2m wid	long and 1 m e	3	3
Fall			3 in higl	no and 1.0 m า	3	3
Escapes			3 in and cha	no 2.5 m long I 1 m wide nnel	3	3

Infrastructure Development Works under IWRMP (continued)

		<u>Qua</u>	ntity	
Name and Description of Structure	Key Dimensions	Planned in DFSR	Constructed	
Financial Summary (all figures in NPR)	Approved Estimate	Contract Value	Final Value	
[A] Civil Works	Approved Estimate	Contract value	Fillal value	
NCB (All Packages)	18,375,377	14,909,895	14,363,422	
WUA Payable (All Packages)	2,455,063	2,455,063	2,373,328	
WUA Contribution (All Packages)	1,838,276	1,838,276	1,838,276	
Subtotal	22,668,715	19,203,234	18,575,026	
[B] Coningencies (All NCB Packages))			
Physical	1,780,797	0	0	
Price Escalation	1,780,797	0	0	
Other (5%)	890,399	890,399	890,000	
Subtotal	4,451,993	890,399	890,000	
[C] Miscalleneous Items	448,956	0		
[D] SEMP	425,000			
Total Expenditure [A]+[B]+[C]+[D]	27,994,664	20,093,633	19,465,026	
Calculation of Dol/WUA Contributions	S			
Total Dol Works	26,156,389	18,255,357	17,626,750	
WUA Net Cash Contribution*				
Net Dol Contribution	26,156,389	18,255,357	17,626,750	
WUA Contribution Contracts (All)	1,838,276	1,838,276	1,838,276	
Total Dol+WUA Contributions	27,994,664	20,093,633	19,465,026	
Total WUA Contribution	1,838,276	1,838,276	1,838,276	
Overall Effective WUA Contribution	6.6%	9.1%	9.4%	

(* where appropriate)

WATER MANAGEMENT

Description of How the Physical Water Distribution System Operates

The water distribution system operates manually. There are small cuts in unlined portion of the canal which act as outlets from the main canal . In lined portion , outlets with steel gates provided . These outlets are closed or opened as per the need of water for the crops manually.

Description of How Farmers Share the Water Among Themselves

Generally ,water is sufficient for all but in water stressed season ,rotational irrigation is adopted. The have rule of rotation and approved by WUA.

Desciption of Field Application Methods Being Used

Wild flooding is invariably adopted in this sub-project also for irrigation . Sprinkler and drip irrigation methods can be widely used here . Users need orientation and awareness on benefits of such irrigation techniques.

WATER USERS ASSOCIATION

Participation	Total	Men	Women	Janajati	Dalit	Other
Number of Households	147					
Total Population No	1,010	490	520	161	7	842
%		49%	51%	16%	1%	83%
WUA Executive Committee No	9	6	3	6	0	3
%		67%	33%	67%	0%	33%
Number of Traing Events	2					
WUA Training Participation No	40	32	8	9	0	31
%		80%	20%	23%	0%	78%
Date of WUA RegistrationdaymonthyearDate of WUA Subproject Agreement with Dol1422067						

Observations on WUA Organisation, Rules, Regulations and Conflict Resolution

There no any written rules & regulations formulated. They run the system based on understanding among users. There is no any serious conflict of interests among beneficiaries but construction of road along uphill slope of canal alignment may invite skirmishes among users and mechanism is urgently needed to manage such event as soon as it arrises. the canal system is good having capacity to convey required discharge for planned command areaat at a time. The users are real farmers and manage the system using their own resources. There is no any misunderstanding among them till date . They have deputed water watch man on turn basis to run the system smoothly. WUA meeting is need based and no office room hired or built so

Observations on WUA Organisation of Operation and Maintenance (see also Annex F)

WUA organization is active and ISF plan prepared .The canal construction work is completed.Usres need training on leadership, resource mobilization, preparation of annual plan and budget, accounting and water management.WUA has mobilised users as a water guards on turn by turn.There is no any serious conflict of interests till date and seem capable of resolving it if arrises. There is sound understanding among community members .Participation in canal maintenence and operation is inclusive and work accomplished is very good .

AGRICULTURE EXTENSION AND TRAINING

Participation Total			Men	Women	Janajati	Dalit	Other	
Total Population No 1,010		490	520	161	7	842		
		%		49%	51%	16%	1%	83%
Number of T	raing Eve	ents						
Participant	ts in Trair	ning No	0					0
		%		-	-	-	-	-
Productivity			1					
		Baseline	Lates	t Avallable D	ata, FY: <en< b=""></en<>		ta nere>	Nationa
	Area (he)	Productivity	Area (ha)	Productivity		Gr income		
	(na)	(vna)	(na)	(vna)	(NRS/I)	(INRS/IIA)	(NRS/na)	(INRS/IIA)
Spring Paddy	10	2.30	10	2.56	25,000	64,000	52,000	12,000
	Inci	rease in Proc	luctivity	11%				
Paddy	35	2.30	37	2.56	25,000	64,000	52,000	12,000
	Inci	rease in Proc	luctivity	11%				
Wheat	12	2.10	14	2.30	26,000	59,800	37,800	22,000
	Inci	rease in Proc	luctivity	10%				
Maize	5	2.10	8	2.45	25,000	61,250	37,000	24,250
	Inci	rease in Proc	luctivity	17%				
Potato	2	8.00	5	10.00	38,000	380,000	170,000	210,000
	Inci	rease in Proc	luctivity	25%				
Pulses	1	0.50	1	0.50	100,000	50,000	25,000	25,000
	Inci	rease in Proc	luctivity	0%				
Oilseed	3	0.50	3	0.50	120,000	60,000	23,000	37,000
	Inci	rease in Proc	luctivity	0%				
Vegetables	1	8.00	4	9.00	40,000	360,000	165,000	195,000
	Inci	rease in Proc	luctivity	13%				
Other						0		0
	Inci	rease in Proc	luctivity					0.000.000
				l Ota	ai isp net in	come (NRS)		3,032,000
	O	verall Net Inc	ome per	r hectare of C	Command Are	ea (NRs/ha)		60,640
Command Area Performance								

	DFSR Baseline	Target	Latest
Cropping Intensity	138%	216%	164%
% Cropped Area Planted with Improved Seed			40%
% Farmers Using Improved Techniques			35%

Adoption of Improved Crop Varieties

Spring Paddy	CH-45
Paddy	Sukkha-3,4, Khumal-4, 7, Radah-4, Chaina-4
Wheat	Gautam
Maize	Manakamana-3,4, Local Thulo, Local Sano
Potato	Cardinal, Kufrijyoti
Pulses	Local
Oilseed	Local
Vegetables	Cabbage-Snowcrown, Cabbage-Green Coronet, Radish-40 Days, Menoearly

SOCIAL AND ENVIRONMENTAL MANAGEMENT

Implementation of SEMP Recommendations

SEMP Issue	Location	Mitigation Measure	Compliance Remarks
Impediment of Movement of domestic Animals/People		Foot Bridge/crossing and Covered canal	Yes
Use of Chemical fertilizer and pesticide		Organic farming training & Awareness training on CF & Pesticide	Yes
Management of Stone Quarry along the canal alignment		IDD will expedite an alternative quarry site.	Yes
Overflow of canal due in rainy season and canal losses due to holes created by insects.		Provision of flow control structures. Design earthen canal section for max flow.	Yes
Aggravate Land slide problem		Provision of lining, covered canal and retaining structures.	Yes
		Vegetation and plantation using bio-engineering technique.	No
Gender Issue		Field and exposure visit for user groups including Janajati, Dalit and women	No
		Provision of special clause regarding equal wages among male and female workers	Yes
Employment Opportunity to economically backward people		Priority for recruitment of backward people in the construction activities;	Yes
		Priority for recruiting them for canal operation	Yes
Establishment of Labor camp		For health and safety of construction workers	Yes

Total Number of Mitigation Measures (not including those no longer relevant)

Number of Mitigation Measures Fully Implemented

11
9
82%

Overall Rate of Compliance

ANNEX B

PHOTOGRAPHS

















ANNEX E

LAND DONATION RECORDS



आज मिति 26020000 जतेहा दिन मनछाट हिंगाई दुलो जलउपमोहा समितिहा नेक रामितिहा अध्यक्ष भी होती वहाहर धापाडो अध्यक्षता मेंढड नही निम्न मलाव रावि तपश्चित वमीजिम निर्वायहरु आही/ जला eshandes नी मुहाराधाय १९ दोर्श नहादर छापा - उत्तधाक्ष (2) हिरा छुन् (3412431 1731 २८५- (४ २८न महादुर धापा - छोपाध्यध अग्रि छ स्तिजना सेन - एक्श्य व्युवटों (B) ट्युवटी कापा इम्मानीय (७) लगल बहादुर रहेन -- भीष रुष्ट्र न्द्र ने हिंद 4 उन्द्र यहाह वहाह (धाया --4821985 . १ सेंद्रकाड़ी हरीहित्व द्वादि जार्म एम्बन्धमा/ 2) सेल्या नविडल जाने एम्बल्यमा 2) सिंचाई विकेश हिंग्रिमन, रोज्यावाट प्राप्त मति २०७२०००७ न्वलानी में २१ को पत्र निर्माहा हार्थही लागी अल्ला व्यवत्थापन राग्वन्धमा/ न्पत्वाब नेव 9 साधी द्वलाप्रत जादी आव यव 2069/062 हो मनछाट सिंग्यई दुलो जन उपलोहा रहामतिहो आविड हरहिताव आरेड रातें हामही जिला समितिही यर्प्रवाट र्याणतिषा दाध्यक्ष र र्याचिवलाई जिल्लानेदई पढाउने निर्वाय पालि mail 1 सलाव के य आवी हलाडल अवी अवचार तिंचाई हुलो जलउपमोछा संग्रीखो सेट्या दर्ती समाज- पत्र नविङ्गा अनेकी लाजी समितिही तर्छवर समितिडो तर्छवाट समितिडा आध्यक्ष र साचेवडी जिल्मा दिई सिन्धार विकार डिनिजन, रोल्प ठार्यालायका पढाउने निर्वय अग्रिये/ न्पत्ताव मेठ उभावी हलखल जादी सिंखाई विखाश रिजिना, रोल्पाही क्रिकी २०५२० टाव्ह जाती के २१ डो पत्रकी सम्बन्धना दलडल गदी हान्नी मनदाट सिंगई उप द्वायीखन वि.स. ०६६ सालमा निर्भाग नई जिल्ला पेञ्यायत रोल्पावाट तिमीग नई सेवालन रहेको दियह प्रवाली आरबो हुदा अब आयोजना अन्तर्गत नहा तथा स्रेरचना निर्मावछो जाली पुरांमे जग्गा जामिनमा निर्माण हुने लाडो हुवा थम जग्गा नन्याहिने व्यवेसा शिंन्याह विडास डिमिजन रोल्पामा जानवारी पवाडने निर्वाय जार्मिस व्यवसा शिंन्याह

नेपाल सरकार सिंचाई मन्त्रालय सिंचाई विमाग सिंचाई विकास डिभिजन रोल्पा

प.सं.२०७२/०७३ च.नं.:- ८४४

मिती २०७२/०८/२४

विषय :-जानकारी उपलब्ध गराईएको वारे ।

श्री सिंचाई तथा जलश्रोत व्यवस्थापन आयोजना जावलाखेल ललितपुर

उपरोक्त विषयमा ताँहाको च.नं.२३४ मिती २०७२/०७/३० को पत्र प्राप्त भई व्यहोरा अवगत भयो। सो सम्बन्धमा यस आयोजना अर्न्तगत यस डिभिजन बाट मनघाट सिंचाई उपआयोजना गजुल २ र ओत सिंचाई उपआयोजना ओत १,२ रोल्पा मा सन्चालित रहेकोमा सन्चालित उपआयोजनाहरूको नहर तथा संरचना निर्माणको लागी आवश्यक पर्ने जग्गा सम्बन्धमा सम्बन्धित जल उपभोक्ता सस्थाले परापुर्व कालदेखी निर्माण गरी संचालित सिंचाई योजना भएको हुँदा अब नयाँ निर्माण हुने संरचना तथा नहरको लागी थप जग्गा आवश्यक नपर्ने तथा नहर तथा संरचना निर्माण कार्य सबैको साफा कार्य भएकोले यस सम्बन्धमा कुनै विवाद नहुने भनी यस डिभिजन अर्न्तगत दुईवटै जल उपभोक्ता संस्थाबाट एकै किसिमको व्यहोरा लेखी आएकोले सम्बन्धित जल उपभोक्ता संस्थाको पत्र र निर्णयको फोटोकपी १/१ प्रति आवश्यक जानकारीको लागी यसै पत्रसाथ राखी पठाईएको व्यहोरा अनुरोध छ।

योधार्थ श्री म.प.क्षेत्रिय सिंचाई निर्देशनालय सुर्खेत ।

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डिभिजन प्रमुख रविनाथ बाब श्रेष्ठ

ভিমিতন प्रमुर

ANNEX F

IRRIGATION SERVICE FEE COLLECTION PLAN

Irrigation and Water Resources Management Project (Additional Funding)

O & M Cost and ISF Collection Plan

Subproject: Manghat. District: Rolpa..... Construction Start: 2072 Finish: 2074......

1. Salient Features of Subproject Infrastructure:

Name of Canal/Structure	Size / No	Critical Features regarding O&M
Intake	1	temporary bund after each flood is needed to divert the flow
Escape	1	Greasing of spindle is needed
Lined covered canal	80	Occasional cleaning is required
Steel gates	4	need painting every year
gabion protection work	60	wire of gabion needs thorough examination after each flood
Aqueduct	2	cleaning
Road crossing	8	repair and cleaning

2. Summary of Engineer's Estimate for O & M Cost and ISF Rate:

See attached spreadsheets(Tables A, C, D & F) for details:

- a) Engineer's estimate of overall O&M cost 356840 NPR
- b) Estimated non-ISF income of WUA (excluding labor contributions) 38055NPR
- c) Additional funds required by WUA through ISF to meet O&M costs = (a b) = 155945 NPR
- d) Equivalent rate per ha for ISF 3119 NPR/ha

3. WUA's Agreed O&M Budget and ISF Rate:

Detailsof budget agreed with WUA, based on their past experience and summarized in the attached spreadsheet (Tables A, F, G & H).

- a) Agreed Overall O&M budget (including deposits for emergency repairs) 194000 NPR
- b) Estimated non-ISF income of WUA (excluding labour contributions) 38055 NPR
- c) Additional funds required by WUA through ISF to meet O&M costs (= a b) 155945NPR
- d) Equivalent rate per ha for ISF 3119NPR/ha
- e) Available records, if any, of ISF collection in recent years.

	NPR '000						
Year	Balance at Start of Year	Est. Value of Labour/Kind Contribution	ISF rate(NPR/ha)	Total Amount Collected	Total Expenditure	Balance at End of Year	

4. <u>Recommended Annual ISF Collection Rate</u>

ISF Rate (NPR/ha)							
Engineer's Estimate	Currently collected by WUA	Recommended transition from Existing Collection Rate to Engineer's Estimated Rate					
	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	
6376	0	2000	3000	4500	6000	6376	

In the beginning WUA may not agree collect ISF as per engineer's estimate and should be suggested during discussion to increase ISF rate gradually to meet within 4- 5 years so that the surplus amount will be helpful at the time of heavy damage if any in future and also they can benefit from bank interest.

5. ISF Collection Plan as per WUA:

Give details as per discussion with WUA, based on the following checklist.

- a) Timing of payment (after harvest).
- b) Has a person responsible for ISF collection been appointed yet? (N) user's committee is responsible.
- c) Will the person responsible for ISF collection be remunerated in any way? no

6. Financial Management by WUA

Confirm (from project records) that WUA members have completed the relevant training and financial procedures according to the IDF, namely:

Phase 1 – Pre-project Implementation

• SN 25 Preparation of annual work programme and budgets

Phase 2 – Project Implementation

- SN 6 ISF and other resources collection
- SN 7 Formulation of financial and administrative rules and regulations
- SN8 Auditing
- SN 10 Notice issued on financial activities and public auditing

Phase 3 – Operation and Maintenance

- SN 3 ISF and other resource collection
- SN 6 Establishing canal maintenance fund
- SN 10 Submitting financial details to DoI after end of financial year



Expenditure Model Plan for ISF Collection to Meet O & M Costs

26 June 2018

Α	Project Details		
	Name of Irrigation Sub-project (ISP)	Manghat	
	Command Area	50	ha
	Number of Households	135	Nos
	Population	700	Nos
В	Estimated Cost of Civil Works	17,842,000	NPR

C Engineer's estimate for Annual O&M Costs

Description	Rate	Amount(NPR)
Engineer's estimate for overall O&M cost of sub-project @ 2 - 3 % of civil	20/	256 940 00
works cost and including:	Ζ70	550,640.00
a) Operation cost includes the following		
- Office rent and furnitures		
- Stationary		
- WUA Renewal cost		
- WUA audit cost		
- WUA G assembly/ election cost		
- other office expenses		
- Miscellaneous expenses		
b) Mainteneance cost includes the following		
- Routine maintenance of H/W and structures including operating gates.		
- Dhalpa/chaoukidar/heralu		
- ISF collector remuneration		
- Emergency maintenenace of Canal and structures as and when required		
- Miscellaneous expenses		

D Calculation of ISF based on Engineer's Estimate

Ann	ual amount required for O& M = (Engineer's estimate - WUA income)	318,785.10
ISF	rate per ha	6,375.70
ISF	rate per bigha (1ha = 1.48 Bigha)	4,307.91
ISF	rate per kattha (1ha = 29.60 Kattha)	215.40
ISF	rate per ropani (1ha = 19.675 Ropani)	324.05

SAMPLE

E Estimated Value of Routine Maintenance Activities (supplied as labour)

SN	Description	Quantity (Labor)	Rate	Amount(NPR)
1	Main Canal/structures cleaning (2 times/year)	60	500	30000
2	Intake H/W Diversion (2. times/year)	370	500	185000
2	Branch canal repair/cleaning (2 times/year)	-		0
	Total			215,000

F Expected Sources of Cash Income of WUA

SN	Description	Quantity	Rate	Amount (NPR)
1	Membership Fee	135	200	27,000
2	Defaulter's Fee			0
3	Industries (Fish, water shear etc)			0
4	Visitor's fee	1	1,000	1,000
5	Agro-mechanical rental of WUA equipments			0
6	Profit from Land buy/sell fee			0
7	Profit from culture program			0
8	Profit fromWUA Training allowance/Expopsure visit	25	50	1,250
9	Sand obtained from canal de-silting		0	0
10	Interest of bank deposit	135,460	0	8,805
11	Interest of loan provided to WUA beneficiaris by WUA			0
12	Grass of canal bank			0
13	Other			0
	Total			38,055

G Provisional O&M Budget Agreed with WUA

SN	Description	Quantity	Rate	Amount (NPR)
1	O&M of Headworks	1	10,000	10,000
2	O&M of Main Canals	1	50,000	50,000
3	O&M of Branch Canals			
4	O&M of Flow Control Structures	7	5,000	5,000
5	O&M of Bridges, Culverts and Syphons			
6	Remuneration of Dhalpa / Heralu / Chowkidar	1*3	7,000	21,000
7	Transportion	1	5,000	5,000
8	Office Rent	1	1,000	12,000
9	Office Equipment (incl furniture and stationery)	1	5,000	5,000
10	Remuneration for ISF Collector	1	1,000	1,000
11	WUA General Assembly	1	20,000	20,000
12	WUA Audit	1	10,000	10,000
13	other	1	5,000	5,000
	Subtotal			144,000
14	Deposit into fund for emergency repairs	1	50,000	50,000
	Total			194,000

H Calculation of ISF based on WUA's Agreed Budget

Annual amount required for O& M = (Engineer's estimate - WUA income) - NPR	155,945
ISF rate per ha	3,119
ISF rate per bigha (1ha = 1.48 bigha)	2,107
ISF rate per kattha (1ha = 29.60 kattha)	105
ISF rate per ropani (1ha = 19.675 ropani)	159

Note:-

WUA beneficiaries may pay ISF fee in cash, in kind (such as with paddy, wheat, or other crops) or in labour, as agreed by the WUA.