

Government of Nepal
Ministry of Irrigation
Department of Irrigation
Irrigation and Water Resources Management Project
(IWRMP)

**Irrigation Infrastructures Development &
Improvement (AF), Component-A**
(Word Bank Project ID: P144474)

SUBPROJECT COMPLETION REPORT
Goiladi, Darchula

CMS Engineering Consult Pvt. Ltd.
Full Bright Consultancy Pvt. Ltd. JV

June 2018 / Asar 2075

IWRMP (AF) - COMPONENT A
Goiladi Subproject Completion Report

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IWRMP (AF) - COMPONENT A
Goiladi Subproject Completion Report

Name of Subproject Ecological Belt

Municipality & Ward No(s) District

SUBPROJECT DESCRIPTION

Brief Description of Subproject

Goeladi ISP is situated in Sailesh Shikhar Municipality ward no-2 of Darchula district. Intake site is at 465099.82 East and 3287123.039 North with the elevation of 1345.96m. The command area lies on the bank of Chakimul khola. The nearest black topped road is at Gokuleshwor, through which it connects Dethala bazar via 8 km gravel road and project site is nearly 3.5 hrs. walking distance away from Dethala bazar. The nearest market is Gokuleshwor. Structures constructed are RCC Canal lining 1700m, HDPE Pipe lining 9m, retaining wall 132.7m, dry wall 43m and gabion protection work 8.0m.

Size of Command Area Gross ha Net ha

Location of Centre of Command Area Northing ° ' "
 Easting ° ' "

Distance from Command Area to:

nearest road accessible by jeep/tractor		<input type="text" value="5"/> km
nearest paved road		<input type="text" value="8"/> km
nearest urban centre/market	(name) <input type="text" value="gokuleshwor, Balanch"/>	<input type="text" value="8"/> km
nearest local IDD/IDSD/GWIDD office	(name) <input type="text" value="khalanga"/>	<input type="text" value="80"/> km
nearest local DADO office	(name) <input type="text" value="galphai"/>	<input type="text" value="79"/> km

Source(s) of Irrigation Water Supply

Source Reference	Location of Headworks	Measured Flow	Comments
1 Name <input type="text" value="Chakimul khola"/>	N <input type="text" value="32"/> ° <input type="text" value="87"/> ' <input type="text" value="12.00"/> "	<input type="text"/> lps	<input type="text"/>
Type <input type="text" value="perennial"/>	E <input type="text" value="46"/> ° <input type="text" value="50"/> ' <input type="text" value="46.00"/> "	<input type="text"/> date	
2 Name <input type="text"/>	N <input type="text"/> ° <input type="text"/> ' <input type="text"/> "	<input type="text"/> lps	<input type="text"/>
Type <input type="text"/>	E <input type="text"/> ° <input type="text"/> ' <input type="text"/> "	<input type="text"/> date	
3 Name <input type="text"/>	N <input type="text"/> ° <input type="text"/> ' <input type="text"/> "	<input type="text"/> lps	<input type="text"/>
Type <input type="text"/>	E <input type="text"/> ° <input type="text"/> ' <input type="text"/> "	<input type="text"/> date	

IWRMP INTERVENTION

Irrigation Water Supply

Source	Target Supply	Actual Flow Rate Measurements			
1	<input type="text" value="40"/> l/s	<input type="text" value="22"/> l/s	<input type="text" value="28 Jan 18"/> date	<input type="text"/> l/s	<input type="text"/> date
2	<input type="text"/> l/s	<input type="text"/> l/s	<input type="text"/> date	<input type="text"/> l/s	<input type="text"/> date
3	<input type="text"/> l/s	<input type="text"/> l/s	<input type="text"/> date	<input type="text"/> l/s	<input type="text"/> date
Total	<input type="text" value="40"/> l/s	<input type="text" value="22"/> l/s		<input type="text" value="0"/> l/s	
Duty	<input type="text" value="1.538"/> l/s/ha	<input type="text" value="0.846"/> l/s/ha		<input type="text" value="-"/> l/s/ha	

Infrastructure Development Works under IWRMP

Name and Description of Structure	Key Dimensions	Quantity	
		Planned in DFSR	Constructed
RCC Canal lining (m)	(30*30) cm		1700
HDPE Pipe Lining		9	9
Side Intake(1 no)		1	1
Retaining wall (m)			132.72
Dry wall (m)			43
Gabion protection	3*1.5*0.75		8

Infrastructure Development Works under IWRMP (continued)

Name and Description of Structure	Key Dimensions	Quantity	
		Planned in DFSR	Constructed

Financial Summary (all figures in NPR)

	Approved Estimate	Contract Value	Final Value
[A] Civil Works			
NCB (All Packages)	6,547,784	3,944,140	3,904,763
WUA Payable (All Packages)	1,528,898	1,528,898	1,528,898
WUA Contribution (All Packages)	730,150	730,150	999,569
<i>Subtotal</i>	8,806,832	6,203,188	6,433,230
[B] Coningencies (All NCB Packages)			
Physical	724,530		
Price Escalation	724,530		
Other (5%)	362,439		270,683
<i>Subtotal</i>	1,811,499	0	270,683
[C] Miscalleneous Items	124,470		86,243
[D] SEMP	235,500		235,000
Total Expenditure [A]+[B]+[C]+[D]	10,978,301	6,203,188	7,025,156
Calculation of Dol/WUA Contributions			
Total Dol Works	10,248,151	5,473,038	6,025,587
WUA Net Cash Contribution*			
Net Dol Contribution	10,248,151	5,473,038	6,025,587
WUA Contribution Contracts (All)	730,150	730,150	999,569
Total Dol+WUA Contributions	10,978,301	6,203,188	7,025,156
Total WUA Contribution	730,150	730,150	999,569
Overall Effective WUA Contribution	6.7%	11.8%	14.2%

(* where appropriate)

WATER MANAGEMENT

Description of How the Physical Water Distribution System Operates

No physical structures like division box or gated systems are constructed to deliver water in the field. Water is flowing in the canal system. Beneficiaries farmers take water from out lets.

Description of How Farmers Share the Water Among Themselves

There is rotation system to share water among beneficiaries farmers.

Description of Field Application Methods Being Used

Beneficiaries farmers irrigate their land by flooding method through out lets.

WATER USERS ASSOCIATION

Participation	Total	Men	Women	Janajati	Dalit	Other
Number of Households	35					
Total Population No	300	155	145	0	12	288
%		52%	48%	0%	4%	96%
WUA Executive Committee No	11	7	4	0	1	10
%		64%	36%	0%	9%	91%
Number of Traing Events	6					
WUA Training Participation No	195	95	100	0	11	184
%		49%	51%	0%	6%	94%
<div> <div>Date of WUA Registration</div> <div> <div>day</div> <div>12</div> </div> <div> <div>month</div> <div>11</div> </div> <div> <div>year</div> <div>2070</div> </div> </div>						
<div> <div>Date of WUA Subproject Agreement with Dol</div> <div> <div></div> </div> <div> <div></div> </div> <div> <div></div> </div> </div>						

Observations on WUA Organisation, Rules, Regulations and Conflict Resolution

Goladi ISP is situated in Shailyashikhar Municipality Ward No. 2, Darchula district. This WUA is more active and collective action oriented and have completed more than 66% of IDF activities. WUA managed adminnistration and canal operation & maintenance effectively. The WUA estabalish grievance readdress management with forming 5 members Greivence Readress Sub-committee and maintanang a record keeping register. WUA need to formulate rule and regulations, distribute the membership card and enhance the linkage building with stakeholders. Almost water user farmers including women and Dalit people are satisfied with ISP improvement.

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

WUA is handling the canal operation and maintenance system effectively at regular basis. All water users farmers use to go for intake maintenance, clearance of canals 2 times a year. WUA collecting ISF randomly because they have neither ISF collection plan nor resource mobilization plan. WUA currently prepared the ISF collection and O & M plan by endorsing in the next AGM

AGRICULTURE EXTENSION AND TRAINING

Participation	Total	Men	Women	Janajati	Dalit	Other
Total Population No	300	155	145	0	12	288
%		52%	48%	0%	4%	96%
Number of Training Events	2					
Participants in Training No	47	15	32		5	42
%		32%	68%	0%	11%	89%

Productivity

Productivity	DFSR Baseline		Latest Available Data, FY: <enter FY of data here>					
	Area (ha)	Productivity (t/ha)	Area (ha)	Productivity (t/ha)	Price (NRs/t)	Gr Income (NRs/ha)	Prod Cost (NRs/ha)	Net Income (NRs/ha)
Spring Paddy						0		0
	Increase in Productivity			-				
Paddy	16	2.10	22	3.30	50,000	165,000	85,000	80,000
	Increase in Productivity			57%				
Wheat	8	1.80	20	3.00	55,000	165,000	53,130	111,870
	Increase in Productivity			67%				
Maize	10	1.90	10	2.40	50,000	120,000	53,500	66,500
	Increase in Productivity			26%				
Potato	2	5.20	5	13.00	60,000	780,000	188,584	591,416
	Increase in Productivity			150%				
Pulses						0		0
	Increase in Productivity			-				
Oilseed						0		0
	Increase in Productivity			-				
Vegetables	2	6.50	3	12.70	40,000	508,000	190,000	318,000
	Increase in Productivity			95%				
Other						0		0
	Increase in Productivity			-				
Total ISP Net Income (NRs)							8,573,480	
Overall Net Income per hectare of Command Area (NRs/ha)							329,749	

Command Area Performance

	DFSR Baseline	Target	Latest
Cropping Intensity	158%	227%	231%
% Cropped Area Planted with Improved Seed			35%
% Farmers Using Improved Techniques			35%

Adoption of Improved Crop Varieties

Spring Paddy	
Paddy	Radha-4, Hardinath-1, Ram Dha
Wheat	WK1204, Gautam
Maize	Manakamana-3, Dewti, Shital
Potato	Dezire Cardinal
Pulses	
Oilseed	
Vegetables	Snow Crown, KTM Local, Green Coronet, Pired of India, Manisha, Shrijana

SOCIAL AND ENVIRONMENTAL MANAGEMENT**Implementation of SEMP Recommendations**

SEMP Issue	Location	Mitigation Measure	Compliance Remarks	
Impediment of Movement of Wild Animals/People due to canal widening		Narrow canal where possible and building crossings	Yes	
High Seepage		Lining of canal along the vulnerable reach (weak zone)	Yes	
Extension of canal to accommodate additional command area.		Lining and retaining wall shall be provided at such spots.	Yes	
Protection of landslide and flood prone zone.		Retaining walls and bio-engineering to be incorporated in the design.	Yes	
Chemical Fertilizers Pesticides		Training and promotion of organic farming will be arranged.	Yes	
		Training on controlled use of chemical fertilizer and pesticide will be managed.	Yes	
		Training on organic manure, OFWM and modern agricultural practice.	Yes	
		Field and exposure visits	Yes	
Gender Issues		Priority employment to Dalit by contractor/WUA	Yes	
Dalit issue		Opportunity for employment to Dalit and backwards.	Yes	
Awareness / Health and Sanitation		Awareness for Health and Sanitation by DPHO, DWSSO,	Yes	

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

11

Number of Mitigation Measures Fully Implemented

11

Overall Rate of Compliance

100%

ANNEX B

PHOTOGRAPHS

Photographs: Goiladi ISP, Darchula



Figure 1: Side intake



Figure 2: Lined Canal along the command area

ANNEX C

WUA REGISTRATION DOCUMENT

(नियम ३ को उपनियम (३) संग सम्बन्धित)

सिंचाई विकास सव डिभिजन

नेपाल सरकार
सिंचाई विकास सव डिभिजन
उप-क्षेत्रीय सिंचाई विकास
सिंचाई विकास दार्चुला

उपभोक्ता संस्था

दर्ता प्रमाण पत्र नं.: ०९/२०७०/०७१

मिति: २०७३/०८/०३

उपभोक्ता संस्था दर्ता प्रमाण पत्र

श्री गोइलाडी सिंचाई जल उपभोक्ता समिति
देथला २,३ दार्चुला

उपभोक्ता संस्था दर्ता गर्नको लागि त्यस संस्थाले मिति २०७३/०८/०३ गते दिएको दरखास्तको सम्बन्धमा कारवाही हुदा सिंचाई नियमावली, २०५६ को नियम ३ बमोजिम दर्ता गरी यो प्रमाणपत्र प्रदान गरिएको छ ।

- क) उपभोक्ता संस्थाको नाम र ठेगाना :- गोइलाडी सिंचाई जल उपभोक्ता समिति देथला २,३ दार्चुला
- ख) उपभोक्ता संस्थाको उद्देश्य :- समुचित सिंचाई विकास गर्ने ।
- ग) उपभोक्ता संस्थाको पदाधिकारीहरुको नाम :-

१. अध्यक्ष: श्री माधव राज भट्ट
२. उपाध्यक्ष: श्री पदम राज भट्ट
३. सचिव: श्री भिविराज भट्ट
४. कोषाध्यक्ष: श्री शंकर दत्त भट्ट
५. सह-सचिव: श्री दिपक बहादुर पाल
६. सदस्य: श्री कालो महर
७. सदस्य: श्री माधव राज भट्ट
८. सदस्य: श्री हरिना भट्ट
९. सदस्य: श्री मानमती भट्ट

उपभोक्ता संस्थाले उपयोग गर्ने कुलो कुलेसो प्रशाखा/शाखा नहर : गोइलाडी सिंचाई योजना देथला २,३ दार्चुला

कार्यालयको छाप

प्रमाणपत्र दिने अधिकारीको,
नाम:- दिनेश प्रसाद आचार्य
सही:-

पद:- सव डिभिजन प्रमुख

मिति:- २०७३/०८/०३

सव-डिभिजन प्रमुख

ANNEX E

LAND DONATION RECORDS

આગામી 2069 વાલ મેસિર ૧૪ ગતે ૭૧ દિન થસ ગોશ્લા
 ડે સિન્ચાઈ ગલ ઉપમોક્કા સમિતી ડે વૈઠક સમિતી ડે અધ્યક્ષ
 ડે માધવ રાજ મદ ડે અધ્યક્ષતા મા વસિ તપસિલ વમોગિમે
 ડે ઉપસ્થિતી મા તપસિલ વમોગિમે ડે નિર્ણય ગારિયો.

તપસિલ

આદ્યક્ષ	અધ્યક્ષ	ડે માધવ રાજ મદ
સહચીફ	ઉપાધ્યક્ષ	ડે પદમરાજ મદ
અનિયમ	સાચિવ	ડે મિતિરાજ મદ
સહી	સહ સાચિવ	ડે દિપક વમ્પાલ
ચાલી	સપ્ત્ય	ડે કાલો મદ
સપ્ત્ય	સપ્ત્ય	ડે માધવ રાજ મદ
પેરે દેવી	સપ્ત્ય	ડે પ્રમી પાર્વતી મદ
દેવેમા	સપ્ત્ય	ડે હરિના મદ
મનમતી	ડે	ડે માનમતી મદ
	ડે	ડે ગોમતી મદ

પ્રસ્તાવ નં. ૧: સિન્ચાઈ કો ગમગા લેખવંદામા

નિ.પ.૧. પ્રસ્તાવ નં. ૧ મા દલકલ ગર્કા થસ ગોશ્લા
 સિન્ચાઈ ડે નદર નિર્કોશ કો લાગી ચાદિને આવલ્યક
 ગમગા તથા મવિલ્યમા સાચા લોઈન કો લાગી ચાદિને
 સિન્ચાઈ મિજા પર્ને સમ્પુર્ણ ગમગા સિન્ચાઈ કાર્પોલય બાંઈ
 ચાદી એકા વરવત ઉપલબ્ધ ગરાઉને નિર્ણય લેવે સમ્મતી
 વાંર વારિત ગારિયો.

~~પ્રમી~~

~~પદમરાજ~~

~~મિતિરાજ~~

गोइलाडी सिंचाई उपभोक्ता समिति

देथला-३, दारुवा

पत्र संख्या :- ०६८१०६८

चलानी नं:- १५

मिति :- २०६८/११/११

विषय :- जग्गा सम्बन्धमा

श्री सु.प. सिंचाई विकास सत्र डिभिजन नं.४ दारुवा

उपरोक्त सम्बन्धमा यस गोइलाडी सिंचाई योजना
मा ओ सेवा हुनेग निम्न पर्ने जून लुके हाड ओ जग्गा
सिंचाई कार्यालय लाई आवश्यक फरेका करबल उ
पलब्ध गराईने भाने मिली २०६९/८/१० गते आफ्न
कसेओ केवड ले समेत निर्णय भई सकेओ हुदा उक्त
योजना ओ सेवा क्षेत्र निज ओ जग्गा कार्यालय लाई
आवश्यक फरेका करबल ^{ननि छल्लामा} उपलब्ध गराईने व्यहोरा अत्र
रोध गर्दै उक्त निर्णय ओ कोरोकपी समेत यसैसाथ
संलग्न राखी पठाएको व्यहोरा अनुरोध गरिन्छ,

श्री पुष्पलाल

डा. डा. गुरु डा.
[Signature]

२०६८/११/०२

प्रमाणित अधिकारी राज भई
(अध्यक्ष)

ANNEX F

IRRIGATION SERVICE FEE COLLECTION PLAN

**Irrigation and Water Resources Management Project
(Additional Funding)**

O & M Cost and ISF Collection Plan

Subproject: GoeladiDistrict DarchulaConstruction Start: Finish:

1. Salient Features of Subproject Infrastructure:

Name of Canal/Structure	Size / No	Critical Features regarding O&M
Side Intake	1.0	
Canal lining	1700 m	
HDPE pipe	9.0m	
Retaining wall	137.72 m	
Dry wall	43 m	
Gabion protection	8 m	

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..... 188047 NPR
- b) Estimated non-ISF income of WUA (excluding labour contributions) 4250NPR
- c) Additional funds required by WUA through ISF to meet O&M costs = (a – b) =183797 NPR
- d) Equivalent rate per ha for ISF 7069 NPR/ha

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

Details of 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)..... 299000 NPR
- b) Estimated non-ISF income of WUA (excluding labour contributions) 4250 NPR
- c) Additional funds required by WUA through ISF to meet O&M costs (= a – b) 294750 NPR
- d) Equivalent rate per ha for ISF 11337 NPR
- e) Available records, if any, of ISF collection in recent years.

Year	NPR '000					
	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
2073/74	0.00					

4. Recommended Annual ISF Collection Rate

ISF Rate (NPR/ha)						
WUA's agreed 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
11337	0.00	2267	4535	6802	9069	11337

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 payments (before/after harvest).-After harvest
- b) Has a person responsible for ISF collection been appointed yet? (Y/N)- No
- 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- No

Phase 2 – Project Implementation

- SN 6 ISF and other resources collection-No
- SN 7 Formulation of financial and administrative rules and regulations-No
- SN8 Auditing- No
- SN 10 Notice issued on financial activities and public auditing- No

Phase 3 – Operation and Maintenance

- SN 3 ISF and other resource collection- No
- SN 6 Establishing canal maintenance fund- No
- SN 10 Submitting financial details to DoI after end of financial year- No

IWRMP-AF

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

28 June 2018

A Project Details

Name of Irrigation Sub-project (ISP)	Goeladi	
Command Area	26	ha
Number of Households	35	Nos
Population	300	Nos

B Estimated Cost of Civil Works

9,402,350 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 works cost and including:	2%	188,047.00
a) Operation cost includes the following <ul style="list-style-type: none"> - Office rent and furnitures - Stationary - WUA Renewal cost - WUA audit cost - WUA G assembly/ election cost - other office expenses - Miscellaneous expenses 		
b) Maintenance cost includes the following <ul style="list-style-type: none"> - Routine maintenance of H/W and structures including operating gates. - Dhalpa/chaoukidar/heralu - ISF collector remuneration - Emergency maintenence of Canal and structures as and when required - Miscellaneous expenses 		

D Calculation of ISF based on Engineer's Estimate

Annual amount required for O& M = (Engineer's estimate - WUA income)	183,797.00
ISF rate per ha	7,069.12
ISF rate per bigha (1ha = 1.48 Bigha)	4,776.43
ISF rate per kattha (1ha = 29.60 Kattha)	238.82
ISF rate per ropani (1ha = 19.675 Ropani)	359.29

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)	50	500	25000
2	Intake H/W Diversion (2 times/year)	20	500	10000
2	Branch canal repair/cleaning (..... times/year)			0
	Total			35,000

F Expected Sources of Cash Income of WUA

SN	Description	Quantity	Rate	Amount (NPR)
1	Membership Fee	35	50	1,750
2	Defaulter's Fee	5	500	2,500
3	Industries (Fish, water shear etc)			0
4	Visitor's fee			0
5	Agro-mechanical rental of WUA equipments			0
6	Profit from Land buy/sell fee			0
7	Profit from culture program			0
8	Profit from WUA Training allowance/Exposure visit			0
9	Sand obtained from canal de-silting			0
10	Interest of bank deposit			0
11	Interest of loan provided to WUA beneficiaris by WUA			0
12	Grass of canal bank			0
13	Other			0
	Total			4,250

G Provisional O&M Budget Agreed with WUA

SN	Description	Quantity	Rate	Amount (NPR)
1	O&M of Headworks	20	500	10,000
2	O&M of Main Canals	50	500	25,000
3	O&M of Branch Canals			
4	O&M of Flow Control Structures			
5	O&M of Bridges, Culverts and Syphons			
6	Remuneration of Dhalpa / Heralu / Chowkidar			
7	Transportation			15,000
8	Office Rent	1*12	1,000	12,000
9	Office Equipment (incl furniture and stationery)			100,000
10	Remuneration for ISF Collector			
11	WUA General Assembly			7,000
12	WUA Audit			10,000
13	other			20,000
	Subtotal			199,000
14	Deposit into fund for emergency repairs			100,000
	Total			299,000

H Calculation of ISF based on WUA's Agreed Budget

Annual amount required for O& M = (Engineer's estimate - WUA income) - NPR	294,750
ISF rate per ha	11,337
ISF rate per bigha (1ha = 1.48 bigha)	7,660
ISF rate per kattha (1ha = 29.60 kattha)	383
ISF rate per ropani (1ha = 19.675 ropani)	576

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.