



NATIONAL IRRIGATION ADMINISTRATION  
SUMMARY OF CY 2019 PROGRAM OF WORK

Annex "E"  
MC No. 69, s. 2018

REGION / PMO	IV-A / Laguna-Rizal Management Office	Program No.	: 1
PROJECT TITLE	: RRF/CIS CY 2019	Date	: Jan. 14, 2019
NAME OF SYSTEM / PROJECT	: TIMBAO BUKAL COMMUNAL IRRIGATION SYSTEM		
SYSTEMS CATEGORY	:		
IR/CIS, NIS/IRIP)	: CIS		
PROJECT DESCRIPTION	: CONSTRUCTION OF PROTECTION WORKS & CONCRETE FLOORING		

GENERAL INFORMATION			
1. Project Location		6. Overall Project Cost (P)	
a. Region	IV-A	a. GOP	Original 16,000,000.00
b. Province /	Laguna	b. Loan proceeds	Revised
City / Municipality	Bifian City	c. Others (Equity, etc.)	
District	Lone District	TOTAL	16,000,000.00
2. Service Area /		7. Physical Target (Overall)	
Designed area (ha.) (FUSA)	77.75	a. New Area (Ha)	
Area For Generation		b. Restored Area (Ha)	
3. Source of Water		c. Repair Works (specific for rehab)	
3.a Drainage Area		c.1 Earth Canal (km)	
3.b Dependable Flow	✓	c.2 Lined canal (km)	0.27
4. Type of Irrigation		c.3 Prot. Works(km)	0.39
(Pls check the type of Irrigation)	5. PT of Diversion	c.4 Coconut Slope Prot.(sqm)	
a. Run off the River	Latitude	c.5 Concrete Service Roads(km)	
b. Reservoir	Longitude	c.6 Earth/gravel Roads (km)	
c. Ground Water Pump		c.7 Rehab area, Ha (attribution)	
d. Others (Spring)		8. Overall Implementation Schedule	
		a. Physical Starting Date	Original January, 2018
		b. Completion Date	Revised June, 2018

WORK TO BE DONE (For the current year)			
1. Performance Weight		4. Physical Target	
a. CONTRACT WORKS	95.40%	a. New Area (Ha)	
b. FORCE ACCOUNT WORKS		b. Restored Area (Ha)	
b-1) IDP	1.50%	c. Repair Works (specific for rehab)	
b-2) Construction Survey	0.10%	c.1 Earth Canal (km)	
c. FSSM	3.00%	c.2 Lined canal (km)	0.27
TOTAL	100.00%	c.3 Prot. Works(km)	0.39
2. Starting Date:	January, 2018	c.4 Coconut Slope Prot.(sqm)	
3. No. of days to Complete	180 Days	c.5 Concrete Service Roads(km)	
		c.6 Earth/gravel Roads (km)	
		c.7 Rehab area, Ha (attribution)	-

II. BREAKDOWN OF CURRENT YEAR PROGRAM			
DIRECT COST	Field Office	Central Office	Total
	I. CONTRACT WORKS		
1. CIVIL WORKS	15,264,593.24		15,264,593.24
II. FORCE ACCOUNT WORKS			
1. INSTITUTIONAL DEV'T PROGRAM	240,000.00		240,000.00
2. CONSTRUCTION SURVEY	15,406.76		15,406.76
III. FIELD SUPPORT, SUPERVISION & MONITORING			
	480,000.00		480,000.00
IV. PROCUREMENT OF EQUIPMENT & VEHICLES (for FAPs)			
V. RIGHT OF WAY ACQUISITION/ DAMAGES			
VI. CONSULTING SERVICES			
VII. TAXES (for selected FAPs)			
VIII. CONTINGENCIES			
10. CONTINGENCIES			
TOTAL DIRECT COST	16,000,000.00		16,000,000.00
V. SOURCES OF FUNDS			
A. CAPITAL OUTLAY			
1. GOP			
2. LOAN PROCESS			

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TAILED BREAKDOWN  
 CONSTRUCTION OF PROTECTION WORKS & CONCRETE FLOORING  
 UNDER RRECIS CY 2019  
 Binan City, Laguna

ATTACHMENT "D"

ACTIVITY	Unit	WORK TO BE DONE								
		Quantity	Estimated Direct Cost		Indirect Cost				TOTAL	
			Unit Cost	Total EDC	12% OCM	8% Profit	5% Vat	Total	Unit Cost	Project Cost
<b>A. DIRECT COST</b>										
<b>I. CIVIL WORKS</b>										
<b>1. Construction of Protection Works</b>										
a. Class "A" Concrete (Ordinary)	cu.m.	173.07	11,244.52	1,946,089.08	1,349.34	899.56	674.67	2,923.57	14,168.09	2,452,071.34
b. Class "A" Concrete (L-Shaped Retaining Wall)	cu.m.	607.81	12,970.71	7,883,727.25	1,556.49	1,037.66	778.24	3,372.39	16,343.10	9,933,499.61
c. Filter Drain	cu.m.	268.92	1,955.45	525,859.61	234.65	156.44	117.33	508.42	2,463.87	662,583.92
d. Cofferdamming	cu.m.	1,822.50	196.65	358,394.63	23.60	15.73	11.80	51.13	247.78	451,579.05
e. Dewatering	cu.m.	1,688.64	56.96	96,184.93	6.84	4.56	3.42	14.82	71.78	121,210.58
f. Structure Excavation (Mechanized)	cu.m.	1,710.83	154.24	263,875.85	18.51	12.34	9.25	40.10	194.34	322,482.70
g. Structure Backfill (Mechanized)	cu.m.	3,611.88	333.27	209,936.02	12.39	8.26	6.19	26.84	130.07	430,117.44
h. Concrete Demolition (Massive)	cu.m.	145.37	1,892.50	275,112.73	227.10	151.40	113.55	492.05	2,384.55	346,642.03
<b>2. Construction of Concrete Canal Lining</b>										
a. Class "B" Concrete (Flooring)	cu.m.	62.40	7,506.44	468,401.86	900.77	600.52	450.39	1,951.68	9,458.12	590,186.69
b. Manual Excavation	cu.m.	77.37	151.40	11,713.82	18.17	12.11	9.08	39.36	190.76	14,759.10
c. Manual Backfill (w/ compaction)	cu.m.	1.98	201.87	399.70	24.22	16.15	12.11	52.48	254.35	503.61
d. Concrete Chipping	cu.m.	7.95	1,892.50	15,045.38	227.10	151.40	113.55	492.05	2,384.55	18,957.17
<b>Total CONTRACT WORKS</b>										<b>15,264,593.24</b>
<b>II. FORCE ACCOUNT WORKS</b>										
1. Civil Works (Breakdown of Activities)										
2. Institutional Development Program	L.S.	1.00	240,000.00						240,000.00	240,000.00
3. Construction Survey (with support doc.) Parcelly Survey (with support doc.)	L.S.	1.00	15,406.76						15,406.76	15,406.76
<b>Total FORCE ACCOUNT WORKS</b>										<b>255,406.76</b>
<b>III. RIGHT OF WAY ACQUISITION/DAMAGES</b>										
1. Land Acquisition										
2. Plant Damages										
3. Property Damages										
<b>IV. PROCUREMENT OF EQUIPMENT &amp; VEHICLES</b>										
<b>V. FIELD SUPPORT, SUPERVISION &amp; MONITORING</b>	L.S.	1.00	480,000.00						480,000.00	480,000.00
<b>VI. CONSULTING SERVICES</b>										
<b>VII TAXES</b>										
<b>VII CONTINGENCIES</b>										
1. Physical Contingency										
2. Financial Contingency										
<b>TOTAL DIRECT COST</b>										<b>16,000,000.00</b>

SUMMARY OF ACTIVITIES  
**CONSTRUCTION OF PROTECTION WORKS & CONCRETE FLOORING**  
 UNDER RRECIS CY 2019  
 TIMBAO BUKAL COMMUNAL IRRIGATION SYSTEM

"Attachment F"

ACTIVITY	CANAL	STATION		Length (m)	Location	PARTICULAR ITEMS OF WORK												
		FROM	TO			Class "B" Concrete (Flooring) (cu.m)	Manual Excavation (cu.m)	Manual Backfill (w/ compaction) (cu.m)	Concrete Chipping (cu.m)	Class "A" Concrete (Ordinary) (cu.m)	Class "A" Concrete (L- Shaped Retaining Wall) (cu.m)	Filter Drain (sq.m)	Cofferdamming (sq.m)	Dewatering (sq.m)	Structure Excavation (Mechanized) (sq.m)	Structure Backfill (Mechanized) (sq.m)	Concrete Demolition (Massive) (sq.m)	
1. Proposed Protection Works (No Hauling)	U/S	0+000.00	0+395.00	395.00	Binan, Laguna					173.07	607.81	268.92	1822.50	1688.64	1,710.83	2,614.88	145.37	
2. Proposed Concrete Flooring	M.C.	0+000.00	0+265.00	265.00		62.40	77.37	1.98	7.95									
<i>Total</i>				658.00			62.40	77.37	1.98	7.95	173.07	607.81	268.92	1,822.50	1,688.64	1,710.83	2,614.88	145.37

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**ROMEO M. LOPEZ**  
 Acting Regional Director

FMA  GLH   
 DRG 

NOTE: 01/17/19  
 PLAN ARE ON PRO  
 FOR CHECKING  
 AT DESIGN