



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.	
PROJECT TITLE	EGPIP CY 2019	Date	17-Sep-18
NAME OF SYSTEM / PROJECT	RIZAL PUMP IRRIGATION PROJECT		
SYSTEMS CATEGORY (NIS/CIS, NISRIP)	Pump Irrigation Project		
PROJECT DESCRIPTION	PROCUREMENT, DELIVERY & INSTALLATION OF SOLAR POWER PUMP & ACCESSORIES		

<b>I. GENERAL INFORMATION</b>			
1. Project Location		6. Overall Project Cost (P)	
a. Region	IV-A	a. GOP	Original 5,000,000.00
b. Province / City / Municipality	Rizal / Jalajala	b. Loan proceeds	
District	II	c. Others (Equity, etc.)	
2. Service Area /		TOTAL	5,000,000.00
Designed area (ha.)	24.21 has. (New)	7. Physical Target (Overall)	
Area For Generation		a. New Area (Ha)	24.21 has. (New)
3. Source of Water		b. Restored Area (Ha)	
3.a Drainage Area		c. Repair Works (specific for rehab)	
3.b Dependable Flow	✓	c.1 Earth Canal (km)	
4. Type of Irrigation (Pls check the type of Irrigation)		c.2 Lined canal (km)	
	5. PT of Diversion	c.3 Structures(units)	
	Latitude	c.4 Coconet Slope Prot.(sqm)	
a. Run off the River		c.5 Concrete Service Roads(km)	
b. Reservoir		c.6 Earth/gravel Roads (km)	
c. Solar Water Pump 1	X	14°20'34.73	121°22'13.99
Solar Water Pump 2	X	14°20'28.46	121°22'16.57
d. Others			
		c.7 Rehab area, Ha (attribution)	
8. Overall Implementation Schedule			
		a. Physical Starting Date	Original January, 2019
		b. Competition Date	Revised May, 2019

<b>II. WORK TO BE DONE (For the current year)</b>			
1. Performance Weight		4. Physical Target	
a. CONTRACT WORKS	94.43%	a. New Area (Ha)	24.21 has. (New)
b. FORCE ACCOUNT WORKS		b. Restored Area (Ha)	
b-1) Construction Survey	0.85%	c. Repair Works (specific for rehab)	
c. FSSM	2.83%	c.1 Earth Canal (km)	
d. GESA	0.00%	c.2 Lined canal (km)	
e. Management Fee	0.00%	c.3 Structures(units)	
TOTAL	98.11%	c.4 Coconet Slope Prot.(sqm)	
2. Starting Date:	January, 2019	c.5 Concrete Service Roads(km)	
3. No. of days to Complete	150 Days	c.6 Earth/gravel Roads (km)	
		c.7 Rehab area, Ha (attribution)	

<b>III. BREAKDOWN OF CURRENT YEAR PROGRAM</b>				Prepared by:	
<b>A. DIRECT COST</b>					<b>LOUIE JAY E. SAN JUAN</b>
	Field Office	Central Office	Total		Engineering Assistant A
I. CONTRACT WORKS				Checked by:	
1. CIVIL WORKS	4,721,600.00		4,721,600.00		<b>ARMANDO L. FLORES</b>
II. FORCE ACCOUNT WORKS					Engineer A
1. IDP	94,432.00		94,432.00	Approved By:	
1. CONSTRUCTION SURVEY	42,320.00		42,320.00		<b>NICASIO P. PAGNANGAN, JR.</b>
III. FIELD SUPPORT, SUPERVISION & MONITORING	141,648.00		141,648.00		Division Manager
IV. PROCUREMENT OF EQUIPMENT & VEHICLES (for FAPs)				Noted By:	
V. RIGHT OF WAY ACQUISITION/ DAMAGES					<b>ROMEO M. LOPEZ</b>
VI. CONSULTING SERVICES					Acting Regional Manager
VII. TAXES (For selected FAPs)					
VIII. CONTINGENCIES					
10. CONTINGENCIES					
<b>SUB-TOTAL (A) DIRECT COST</b>	<b>5,000,000.00</b>		<b>5,000,000.00</b>		
<b>B. INDIRECT COST</b>					
I. GESA			-		
II. MANAGEMENT FEE			-		
<b>SUB-TOTAL (B) INDIRECT COST</b>			-		
<b>GRAND TOTAL (A+B)</b>	<b>5,000,000.00</b>		<b>5,000,000.00</b>		
<b>IV. SOURCES OF FUNDS</b>				Noted By:	
<b>A. CAPITAL OUTLAY</b>					<b>DELSY J. REVLLAME</b>
1. GOP					Acting Manager, Operation Department
2. LOAN PROCESS					

DETAILED BREAKDOWN  
**PROCUREMENT, DELIVERY & INSTALLATION OF SOLAR POWER PUMP & ACCESSORIES**  
 Under - EGPIP CY 2019  
 Bagumbong, Jalajala, Rizal

ATTACHMENT "D"

ACTIVITY	Unit	WORK TO BE DONE							TOTAL		
		Quantity	Estimated Direct Cost		Indirect Cost				Unit Cost	Project Cost	
			Unit Cost	Total EDC	OCM	Profit	Vat	Total			
<b>A. DIRECT COST</b>											
<b>I. CIVIL WORKS</b>											
<b>PROCUREMENT, DELIVERY &amp; INSTALLATION OF SOLAR POWER PUMP &amp; ACCESSORIES</b>											
1 Solar Controller cum Inverter for 7.5hp, 220-230V, 3Ph Pump and Motor	set	2.00								270,000.00	540,000.00
2 ECN-80D pump and motor A. 7.5hp, 4pole variable frequency motor B. Centrifugal, Nonclog Pump C. 300gpm discharge at 10m head and 1450rpm D. 3" suction and discharge size E. Impeller diameter=222.25mm F. Impeller Type = Double channel and semi open impeller	set	2.00								380,000.00	760,000.00
3 PV Modules, 72 Cells, Polycrystalline class A, with certificate of conformance for Fill Factor Verification	watts peak	19,200.00								90.00	1,728,000.00
4 3"x3"x4mm Tubular Bars	pcs	60.00								5,200.00	312,000.00
5 PV Cable for DC connection	m	500.00								220.00	110,000.00
6 MC4 Connectors	set	60.00								350.00	21,000.00
7 3"x3"x4mm angle bars	pcs	60.00								2,600.00	156,000.00
8 3" 90 degrees elbow	pcs	12.00								1,700.00	20,400.00
9 3" GI coupling	pcs	12.00								700.00	8,400.00
10 3" Flange PN10/16	pcs	12.00								500.00	6,000.00
11 Gravel	cu.m	32.00								2,500.00	80,000.00
12 Sand	cu.m	32.00								1,800.00	57,600.00
13 Paint (Pail) for corrosion resistance	pail	10.00								5,000.00	50,000.00
14 Primer	gal.	40.00								1,200.00	48,000.00
15 Tetanized Treaded Botls w/ Double Nuts and Washers	sets	400.00								90.00	36,000.00
16 Corrugated roof Sheet	pcs	24.00								800.00	19,200.00
17 Welding Rod 6011	box	20.00								3,700.00	74,000.00
18 Dynabolt 5/8" x 125mm	sets	360.00								125.00	45,000.00
19 Cocolumber (2"x3"x12')	pcs	200.00								350.00	70,000.00
20 Equipment Rental (Welding Machines, Boom Truck, Gen Sets, etc)	lot	1.00								120,000.00	120,000.00
21 Equipment Rental for Clearing and Grubbing	lot	1.00								60,000.00	60,000.00
22 Other Construction Materials	lot	1.00								100,000.00	100,000.00
23 Miscellaneous	lot	1.00								100,000.00	100,000.00
24 Mobilization/Demobilization/Freight Costs	lot	1.00								200,000.00	200,000.00
<b>Total CONTRACT WORKS</b>											<b>4,721,600.00</b>



<b>II. FORCE ACCOUNT WORKS</b>										
1.	Civil Works (Breakdown of Activities)									
2.	Institutional Development Program	L.S.	1.00	94,432.00	94,432.00			94,432.00	94,432.00	
3.	Construction Survey (with support doc.)	L.S.	1.00	42,320.00	42,320.00			42,320.00	42,320.00	
	Parcelly Survey (with support doc.)									
<b>Total FORCE ACCOUNT WORKS</b>				<b>136,752.00</b>	<b>136,752.00</b>				<b>136,752.00</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>										
V.	<b>FIELD SUPPORT, SUPERVISION &amp; MONITORING</b>	L.S.	1.00	141,648.00	141,648.00			141,648.00	141,648.00	
<b>VI. CONSULTING SERVICES</b>										
<b>VII. TAXES</b>										
<b>VII. TAXES</b>										
<b>VIII CONTINGENCIES</b>										
1.	Physical Contingency									
2.	Financial Contingency									
<b>TOTAL DIRECT COST</b>									<b>5,000,000.00</b>	


**SUMMARY OF ACTIVITIES**  
**PROCUREMENT, DELIVERY & INSTALLATION OF SOLAR POWER PUMP & ACCESSORIES**

Under - EGPIP CY 2019  
 Bagumbong, Jalajala, Rizal


"Attachment-F" 'G"

ACTIVITY	CANAL	STATION		DISTANCE (including Manual Hauling)  (km.)	Location	ITEM OF WORKS
		FROM	TO			SOLAR POWER PUMP & ACCESSORIES  (unit)
<b>CIVIL WORKS</b>						
1.PROCUREMENT, DELIVERY & INSTALLATION OF SOLAR POWER PUMP & ACCESSORIES				0.95	Bagumbong, Jalajala, Rizal	2.00
<i>TOTAL</i>				<b>0.95</b>		<b>2.00</b>

Prepared by :

  
**LOUIE JAY P. SAN JUAN**  
 Engineering Assistant A


Checked by :

  
**ARMANDO L. FLORES**  
 Engineer A

Approved by :

  
**NICASIO C. PAGDANGANAN, JR.**  
 Division Manager

Noted by:

  
**ROMEO M. LOPEZ**  
 Acting Regional Director

GU - 

RMA - 

CRD - 