ENGR. EDUARDO EDDIE G. GUILLEN

Acting Administrator

Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium)

By:

MR. ERDINAND I., BISL DRAN

Authorized Representative / AMO

Contract Agreement

Contract No. R3-BSRIPD-C-37

THIS AGREEMENT, made this NOV 0.7 2023 ay of _______, 2023 between NATIONAL IRRIGATION ADMINISTRATION, EDSA, Diliman, Quezon City (hereinafter called the "Entity") and FERDSTAR BUILDERS CONTRACTORS/ CHINA INTERNATIONAL WATER & ELECTRIC CORP. (CONSORTIUM), Villa Rosemarie, San Miguel, Betis, Guagua, Pampanga (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute Construction of Bayabas Rockfill Dam and its Appurtenant Structures in Region 3 under Small Reservoir Irrigation Project, Contract No. R3-BSRIPD-C-37 (hereinafter called "the Works") and the Entity has accepted the Bid for ONE BILLION NINE HUNDRED FORTY-ONE MILLION ONE HUNDRED TWENTY-ONE THOUSAND TWO HUNDRED NINE AND 17/100 PESOS (PhP1,941,121,209.17) by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- 2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins Nos. 1 to 6;
 - **b.** Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

c. Performance Security;

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ENGR. EDUARDO EDDIE G. GUILLEN

Acting Administrator

MR. CAO WEI General Manager of CWE Philippine Branch Office

AR FERDINAND 1. BELEKAN
Afthorized Representative / AMO

Ferdstar Builders Contractors / China International

Water and Electric Corp. (Consortium)

- d. Notice of Award of Contract and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

Additional Contract Documentary Requirements required by law:

- 1. Construction Schedule in the Form of PERT/CPM, Bar/Gantt Chart and S-Curve
- 2. Manpower Schedule
- 3. Construction Methods and Procedures
- 4. Equipment Utilization Schedule
- 5. Construction Safety and Health Program approved by the Department of Labor and Employment, and
- 6. Contractor's Environmental Management Plan (CEMP).
- 3. In consideration for the sum of ONE BILLION NINE HUNDRED FORTY-ONE MILLION ONE HUNDRED TWENTY-ONE THOUSAND TWO HUNDRED NINE AND 17/100 PESOS (PhP1,941,121,209.17) or such other sums as may be ascertained, Ferdstar Builders Contractors/ China International Water and Electric Corp. (Consortium) agrees to execute and complete the Works and remedy any defects therein in conformity with the provisions of this Contract in accordance with his/her/its Bid, broken down as follows:

Item No.	Description	Quantity	Unit	Unit Cost	Total Cost
	I. GENERAL REQUIREMENTS				***************************************
1	A. Temporary Works,	1.00	L.S.	16,259,915.11	16,259,915.11
	Construction Plant,				
	Mobilization of Const.				
	Equipment and				
	Demobilization Works				
2	B. Construction Safety	1.00	L.S.	2,281,063.58	2,281,063.58
	& Health Program				
	TOTAL (I)				18,540,978.69
	II. CIVIL WORKS				
	A. Operation and Maintenance				
	(Perimeter Fence)				

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ENGR. EDVÁRDO EDDIE G. GUILLEN Acting Administrator NAT:

MR. ROBERT MICTOR G. SEARES, JR. Deputy Administrative for Administrative and Fipance Sector

General Manager of CWE Philippine Branch Office

MRX ERDINAND: SELTRAN -Authorized Representative / AMO

Witness:

Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium)

By:

	A.1 Perimeter Fence				
- 19	A.1.1 Site Preparation				
3	A.1.1.1 Clearing & Grubbing	90.00	sq.m.	17.47	1,572.30
	(Mechanized) including disposal				
	(AHD = 1.5km)				
4	A.1.1.2. Excavation (Manual)	61.00	cu.m.	92.25	5,627.25
5	A.1.1.3. Filling & Backfill	55.00	cu.m.	194.58	10,701.90
	A.2. Concrete Works				
6	Concrete Structures	28.00	cu.m.	8,916.76	249,669.28
	(21 MPa), Class A				
	A.3. Cyclone Fence				
7	Supply, Delivery & Installation	170.00	l.m.	3,081.15	523,795.50
	of Cyclone Fence				
	A.4. Metal Works				
8	Supply, Delivery & Installation	1.00	set	59,657.64	59,657.64
	of Structural Steel Main Gate				
	Sub-Total (A)				851,023.87
	B. DIVERSION TUNNEL				
9	B.1 Diversion and Care of Water	1.00	L.S.	960,393.00	960,393.00
	with Dewatering during				
	Diversion Tunnel Construction				
	(Pre-Cofferdam)				
	B.2. Excav. & Foundation Preparation				
10	B.2.1 Common Excavation	53,314.00	cu.m.	110.69	5,901,326.66
	(Inlet and Outlet Area)				
11	B.2.2 Rock Excavation	181,175.00	cu.m.	200.47	36,320,152.25
	(Inlet and Outlet Area)	ri			
12	B.3 Filling and Backfilling	8,327.00	cu.m.	196.28	1,634,423.56
13	B.4 Overhaul Waste Disposal	42,905.25	cu.m.	93.34	4,004,776.04
	(AHD = 1.5km)				
	B. DIVERSION TUNNEL				
14	B.5 Shotcrete 50mm thick @	17,882.00	sq.m.	2,945.98	52,680,014.36
	Inlet & Outlet Tunnel including				
	wiremesh with rockbolt				
	B.6 Tunnelling				
	B.6.1 Underground excavation,				
	all classes including disposals				
	(includes muck bays, dewatering,				
	blowers and all incidentals				
	to complete the excavation)				

Page 3 of 14

NOIL						
NATIONAL IRRIGATION ADMINISTRATION By: C A C Acting Administrator	15	B.6.1.a Underground Excavation	13,552.00	cu.m.	2,962.70	40,150,510.40
		(Blasting)				
1DN	16	B.6.1.b Disposal from Tunnel	16,500.00	cu.m.	217.49	3,588,585.00
ON A		to Temporary Damping Site				
EDI ,	17	B.6.2 Shotcrete 100mm thick			and the second s	
uG 20		@ Inside Tunnel including	8,415.00	sq.m.	3,208.74	27,001,547.10
IRRA ARB		wiremesh with rockbolt				
(AL	18	B.6.3 Drain holes, 50 mm dia.	792.00	l.m.	3,093.90	2,450,368.80
NATIONAL IRRIGABLES. By: GENGR. EDUAREO Acting Administrator		x 700/900 mm deep with				
NA1 By: ENG Actir		pressure relief holes, supply				
		and installation, provision				
		of PVC perforated pipes				
		and stand pipe				
الب	19	B.6.4 Contact Grouting,	792.00	l.m.	1,183.95	937,688.40
J.		perforated 50mm dia. G.I.				1
SEARES, JR.		pipes and riser pipes				
Sector	20	B.6.5 Supply and Install	313.00	set	138,201.43	43,257,047.59
	21	W6 x 25 Steel Rib Support	2 512 00		42.02	105 554 24
XTVICTOR G mistrator for e and Finance	21	B.6.6 Drilling and Grouting	2,512.00	pcs	42.02	105,554.24
XT VICA mistrator e and Fig.	22	of M22 x 50mm long Bolt B.6.7 Concrete for Floor slab,	992.00	cu m	10.666.03	10 590 701 76
	22	(35 Mpa), Class 2	992.00	cu.m.	10,666.03	10,580,701.76
du BE	23	B.6.8 Concrete Lining	2,625.00	cu.m.	10,792.08	28,329,210.00
ROBE Inistrati		(35 MPa), Class 2	2,023.00	cuim	10,732.00	20,323,210.00
Witness: MR. ROBE Deputy Administratis	24	B.6.9 Concrete Lining	1,849.00	cu.m.	7,967.74	14,732,351.26
	1711	(21 MPa), Class A	2,0,0,00	22///	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11,702,7002120
8	25	B.6.10 Concrete Plug	303.00	cu.m.	7,968.96	2,414,594.88
ууус		(21 MPa), Class A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
iness: MR. CAO WEI General Manager of CWE Philippine Branch Office	26	B.6.11 PVC water stop, 0.2	1,274.00	l.m.	1,376.93	1,754,208.82
Bra		meter width, dumpbell type	38/FF-0.000 - \$48/F-0.000			1594-9/10 S24 Ku #21 S9Ku #1100 He #1150
El E E	27	B.6.12 Supply, Deliver,	356,956.00	kgs	64.97	23,191,431.32
iness: MR. CAO WEI General Manager of CWE Philippin		Furnish & Install of Reinforcing				
E PP		Steel Bars, Grade 60, various				
R. C.W. C.W. C.W.		sizes				
Witness: MR. G Genera		B.7 Intake Tower (Double				
		Barrel RCBC and Tower)				
Te	28	B.7.1 Concrete Structure,	1,622.00	cu.m.	11,012.44	17,862,177.68
tion		(35 Mpa), Class 2				
сша	29	B.7.2 Concrete Plug,	821.00	cu.m.	7,945.11	6,522,935.31
a Int		(21 Mpa), Class A				
Consortium						
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Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium) By: MR. PERDINAND L. EEFTRAN Authorized Representative / AMO	· · · · · · · · · · · · · · · · · · ·					
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NATIONAL IRRIGATION ADMINISTRATION	By:	10		ENGR. EDUARDO EDDIE G. GUILLEN	Acting Administrator	
Withes:				MR. ROBERT VICTOR G. SEARES, JR.	Deputy Administrator for	e Administrative and Finance Sector
Witness:	:	The state of the s	Amax &	MR. CAO WEI	General Manager	of CWE Philippine Branch Office

Ferdstar Builders Contractors / China International

Water and Electric Corp. (Consortium)

MR RERDINAND L. BELTRAN Authorized Representative / AMO

General Manager of CWE Philippine Branch Office

30	B.7.3 Supply, Deliver,	93,711.00	kgs	64.97	6,088,403.67
	Furnish & Install of Reinforcing				
	Steel Bars, Grade 60, various sizes				
31	B.7.4 PVC Waterstop, 0.2	299.00	l.m.	1,376.68	411,627.32
	meter width, dumpbell type				
	B. DIVERSION TUNNEL				
	B.7 Intake Tower (Double				
	Barrel RCBC and Tower)				
32	B.7.5 Intake Trash racks	6.00	set	145,379.87	872,279.22
	complete w/accessories				
	and embedded parts				
	(2.3m W x 3.3m H)				
33	B.7.6 Intake Stoplog	3.00	set	2,746,848.83	8,240,546.49
	complete w/accessories				
	and embedded parts				
	(5.85m W x 6.0m H)				
	B.8 Tunnel Pipeline (Penstock)				+
34	B.8.1 Steel Pipes				
	a. 2.00m Ø Pipe, 15mm thk	63,00	l.m.	76,355.91	4,810,422.33
35	b. 2.50m Ø Pipe, 15mm thk	139.00	l.m.	101,563.98	14,117,393.22
36	B.8.2 Fabrication and Inst'n.	10.00	pcs	11,637.99	116,379.90
	of Hold down Strap				
37	B.8.3 Supply, Delivery,	2.00	set	5,145,151.73	10,290,303.46
	Installation & Commissioning				
	of Spherical Valve w/ Hydraulic				
	Actuator 2.5mØ				
38	B.8.4 Supply, Delivery and	2.00	set	6,330,335.76	12,660,671.52
	Installation and Commissioning				
	of Fixed Cone Valve 2.00mm Ø,				
	2 assembly				
39	B.8.5 Supply, Delivery,	2.00	set	4,936,133.79	9,872,267.58
	Installation & Commissioning				
	of Spherical Valve w/ Hydraulic				
	Actuator 2.0mØ				
40	B.8.6 Steel Pipe Expansion	4.00	set	539,086.80	2,156,347.20
	Joint 2.0mØ				
41	B.8.7 Structural Concrete	390.00	cu.m.	8,950.88	3,490,843.20
	for Thrust Block,			1	
	(21 Mpa), Class A				

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Ferdstar Builders Contractors / China International

Water and Electric Corp. (Consortium)

By:

ENGR. EDÚARDO EDDIE G. GUILLEN Acting Administrator NAT By: MR. ROBERTI WCTOR G. SEARES, JR. Deputy Administrator for Administrative and Finance Sector

General Manager of CWE Philippine Branch Office

Authorized Representative / AMO

42	B.8.8 Structural Concrete	52.00	cu.m.	9,245.79	480,781.08
	for Pipe Supports,				
	(21 MPa), Class A				
43	B.8.9 Supply, Deliver, Furnish	14,699.00	kgs	111.42	1,637,762.58
	and Install of Reinforcing				
	Steel Bars, (Thrust Block &				
	Pipe support), Grade 60				
44	B.8.10 Lean Concrete	8.00	cu.m.	4,888.75	39,110.00
	(50mm thk for Thrust Block)				
	(13.8 Mpa), Class B				
	B.9 Valve House and				
	Valve Chamber				
45	B.9.1 Concrete Blocks,	326.00	sq.m.	1,560.94	508,866.44
	Walls and Partitions				
	(150mm thk CHB Wall)				
	with plaster both sides				3
46	B.9.2 GI Sheet Roofing	285.00	sq.m.	495.29	141,157.65
47	B.9.3 Pre-painted Rib	216.00	sq.m.	2,891.74	624,615.84
	Type Wall Cladding				
	B. DIVERSION TUNNEL				
	B.9 Valve House and				
	Valve Chamber				
48	B.9.4 Supply, Delivery,	25,257.00	kgs	251.57	6,353,903.49
	Assemble and Installation	VA			
	of Structural Steel for				
	Trusses, ASTM A36, for				
	Steel Column, Trusses,				
	Purlins, base plates,				
	bearing plates, stiffeners				
49	B.9.5 Supply, Delivery,	1.00	lot	2,355,916.50	2,355,916.50
	Installation & Commissioning				COMMON AN ARROST TO COMMON AND ARROST ARROST AND ARROST
	of Overhead Travelling Crane				
	(20 Tons Capacity),				
	including Girder				
50	B.9.6 Doors complete w/	1.00	lot	374,352.30	374,352.30
	hardware and accessories				
	Double Panel Swing Steel				
	(1.70m x 2.10m) 2 sets				
	Motorized Roll up Door				
	(5.0m x 4.9m) 1 set				

72		
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NATIONAL IRRIGATION ADMINISTRATION By: Column Administrator Acting Administrator		
F	51	B.9.7 Windows
ATION ADMINISTRA		Sound Attenauted
DMI		Louver Window
N A J		(3.5m x 2.4m) 10 sets
1011	52	B.9.8 Structural Concrete,
GA.		24.5 Mpa, Class AA
NATIONAL IRRIG By: Control of the c	53	B.9.9 Supply, Deliver,
AL I		Furnish and Install of
NATIONAL By: ENGR. EDU Acting Admin		Reinforcing Steel Bars,
ATI		Grade 60, various sizes
By Act	54	B.9.10 Electrical Power
		and Lighting for Valve House
	55	B.10. Handrail
		(G.I. Pipe 50mm Diameter)
씸	56	B.11 Fabrication, Delivery
. <u> </u>		and Installation of Steel
ARI		Folding Gate (2sets)
G. SEARES, JR.	57	B.12 Structural Steel
9		for Catwalk
CTOR Cor for for for for		B.13 Access Road to
VIC strator and Fin		Valve House
	58	B.13.1 Clearing and
Witnesk: AR. ROBERT Deputy Admin Administrative		Grubbing including
RO RO Initialization of the Royal Initialization of the Ro		disposal (AHD = 1.5km)
Witnesk: MR. ROBERT Deputy Admin Administrative	59	B.13.2 Common Excavation
	60	B.13.3 Overhaul Waste
		Disposal (AHD = 1.5km)
9	61	B.13.4 Sub-base
JJO D		Preparation
nch	62	B.13.5 Sub-base Gravel
Bra		(150mm thk)
E Si ig		B. DIVERSION TUNNEL
W Calling Willing		B.13 Access Road to
		Valve House
Witness: MR. CAO WEI General Manager of CWE Philippine Bra	63	B.13.6 Base Course Gravel
of o		(150mm thk)
_	64	
iona	64	B.13.7 Line Ditch (21 MPa),
matri		Class A
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Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium) By: MRATIRIDINAND L. BEHTRAN Authorized Representative / AMO		
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5	1	B.9.7 Windows	1.00	lot	356,265.00	356,265.00
		Sound Attenauted				
		Louver Window				
		(3.5m x 2.4m) 10 sets				
5	2	B.9.8 Structural Concrete,	647.00	cu.m.	10,668.58	6,902,571.26
	1	24.5 Mpa, Class AA				
5	3	B.9.9 Supply, Deliver,	68,096.00	kgs	75.90	5,168,486.40
		Furnish and Install of				
		Reinforcing Steel Bars,				
		Grade 60, various sizes				
5	4	B.9.10 Electrical Power	1.00	L.S.	168,997.50	168,997.50
	_	and Lighting for Valve House				
5	5	B.10. Handrail	72.00	l.m.	1,283.30	92,397.60
_		(G.I. Pipe 50mm Diameter)	Colorina Folio			
5	6	B.11 Fabrication, Delivery	2.00		142,506.00	285,012.00
		and Installation of Steel		lot		
	_	Folding Gate (2sets)				
5	7	B.12 Structural Steel	10,036.00	kgs	253.91	2,548,240.76
		for Catwalk				
		B.13 Access Road to				
		Valve House				
5	8	B.13.1 Clearing and	17,119.00	sq.m.	180.65	3,092,547.35
		Grubbing including				
		disposal (AHD = 1.5km)				
	9	B.13.2 Common Excavation	116,766.00	cu.m.	160.27	18,714,086.82
6	0	B.13.3 Overhaul Waste	58,949.00	cu.m.	144.69	8,529,330.81
		Disposal (AHD = 1.5km)				
6	51	B.13.4 Sub-base	2,803.00	cu.m.	90.12	252,606.36
		Preparation				20 20 300
6	12	B.13.5 Sub-base Gravel	388.00	cu.m.	1,262.26	489,756.88
		(150mm thk)				
		B. DIVERSION TUNNEL				
		B.13 Access Road to				
		Valve House				
6	3	B.13.6 Base Course Gravel	462.00	cu.m.	1,398.85	646,268.70
		(150mm thk)				
6	64	B.13.7 Line Ditch (21 MPa),	258.00	cu.m.	9,027.65	2,329,133.70
		Class A				

By: By: Construction administration Construction Acting Administrator						
LEN	65	B.13.8 Supply, Deliver,	11.551.00			
INIS		Furnish & Install of	11,551.00	kg	66.00	762,366.00
ADM		Reinforcing Steel Bars,				
DIE		for Line Ditch Grade 60,				
SATI		various sizes				
NATIONAL IRRIGATION ADMINISTRA By: ENGR. EDUARDO EDDIE G. GUILLEN Acting Administrator		B.14 Irrigation Intake				
AL I	66	B.14.1 Clearing and	36.00	60.00	21.01	756.26
ION B A A		Grubbing including	36.00	sq.m.	21.01	756.36
NAT By: Actin		disposal (AHD = 1.5km)				
	67	B.14.2 Common Excavation	48.00	cu.m.	160.62	7,709.76
	68	B.14.3 Filling & Backfilling	44.00	cu.m.	194.58	8,561.52
at .	69	B.14.4 Concrete Structure	6.00		10,823.91	
CTOR G. SEARES, JR. or for Finance Sector		(21 MPa), Class A	0.00	cu.m.	10,823.91	64,943.46
ARE	70	B.14.5 Supply, Deliver,	320.00	kgs	92.10	29,472.00
Secto		Furnish and Install of		ge	32.20	25,472.00
CTOR G.SEA		Reinforcing Steel Bars,				
Witness: MR. ROBEERT VICTOR Deputy Administrative and Finant		Grade 60, various sizes				
TTT nistra	71	B.14.6 Supply, Delivery	8.00	l.m.	6,335.12	50,680.96
Adm		and Installation of RCP				27-7-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Witress: MR. ROBE: Deputy Adm Administrati		with Collar				
With Dep	72	B.14.7 Supply, Delivery	1.00	рс	93,907.80	93,907.80
		and Installation of Main				
ice		Intake Slide Gate 0.80m				
h Off		x 0.80m x 6 mm thk				
Branch Office		Sub-Total (B)			-	460,618,048.42
		C. DAM				
Witness: MR. CAO WEI General Manager of CWE Philippine		C.1 Dam Foundation				
E P. Z. S.	73	C.1.1 Clearing and	84,884.00	sq.m.	20.79	1,764,738.36
Witness:		Grubbing including				
8 (2 00		disposal (AHD = 1.5km)				
7.		C.1.2 Excavation and				
utions		Foundation Preparation				
nterna	74	C.1.2.1 Common Excavation	338,052.00	cu.m.	116.09	39,244,456.68
um) (NA)	75	C.1.2.2 Rock Excavation	37,561.00	cu.m.	408.04	15,326,390.44
s / China msortiun CTRAN	76	C.1.2.3 Overhaul Waste	16,619.50	cu.m.	143.95	2,392,377.03
Co store		Disposal (AHD = 1.5km)				
Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium) By: MR. FERDINAND L. BELTRAN Authorized Representative/ AMO	-	Pag	e 8 of 14			

NATIONAL IRRIGATION ADMINISTRATION By:	ENGR. EDUARDO EDDIE G. GUILLEN Acting Administrator
W.wess:	MR. ROBE RT VICTIOR G. SEARES, JR. Deputy Adm nistra or for Administrative and Finance Sector
Witness:	sranch Office
Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium) By:	MR. FURDINAND L., BHEFTRAN Authorized Representative / AMO

	C. DAM				
	C.1 Dam Foundation				
	C.1.3 Drilling and Curtain				
	Grouting				
	C.1.3.1 Drilling & Grouting				
77	a. Drilling of Holes for curtain	9,152.00	l.m.	3,070.82	28,104,144.64
	grouting (primary, secondary				
	tertiary & quarternary holes)				
	and blanket grouting holes				
78	b. Water pressure test	2,080.00	l.m.	1,075.12	2,236,249.60
	prior to curtain grouting				-,,
79	c. Pressure Curtain grouting,	7,322.00	bag	1,098.56	8,043,656.32
	assume 0.8 bag per meter				, , , , , , , , , , , , , , , , , , , ,
	with 2 kg./bag of cement				
80	d. Set-ups (2 inches dia.	1,110.00	l.m.	1,016.87	1,128,725.70
	G.I. Grout Pipe) and	,			2,220,120170
	concrete pad				
81	C.1.3.2 Slush grout	6,527.00	sq.m.	191.40	1,249,267.80
	including removal of	-,	- q	152.10	1,243,207.00
	unsuitable materials				
82	C.1.3.3 Dental Concrete	60.00	cu.m.	11,390.33	683,419.80
	Class C-1	00.00	Cu.III.	11,550.55	003,413.80
	Sub-Total of Item (C.1)				100,173,426.37
	C.2 Dam Embankment				
83	C.2.1 Diversion & Care	1.00	L.S.	5,418,882.00	E 419 003 00
	of River during Dam Const.	1.00	L.J.	3,410,002.00	5,418,882.00
84	C.2.2 Impervious clay core,	246,936.52	cu.m.	504.74	124,638,739.10
	Selected common borrow	240,530.52	cu.m.	304.74	124,036,735.10
85	C.2.3 Test fill	1,500.00	cu.m.	453.83	680,745.00
86	C.2.4 Random fill, selected fill				HARON TO THE PARTY OF THE PARTY
87	C.2.5 Sand filter	257,146.00	cu.m.	211.62	54,417,236.52
88	C.2.6 Gravel filter	107,445.23	cu.m.	1,282.56	137,804,954.19
89	C.2.7 Rockfill	66,304.77	cu.m.	1,325.31	87,874,374.73
05		849,351.00	cu.m.	202.57	172,053,032.07
	(From Excavation)				
90	C.2.8 Transition Rockfill	310,692.00	cu.m.	204.14	63,424,664.88
91	C.2.9 Impervious Zone	23,608.00	cu.m.	507.79	11,987,906.32
92	C.2.10 Concrete for	443.00	cu.m.	10,707.42	4,743,387.06
	side drainage & access foot				
	Path, (21 MPa) Class A				

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EN						
NATIONAL IRRIGATION ADMINISTRATION By: Control Acting Administrator		C. DAM C.2 Dam Embankment				
ATION A	93	C.2.11 Supply, Deliver, Furnish & Install of	17,132.00	kg	104.97	1,798,346.04
NATIONAL IRRIGA By: ENGR. EDUARDO Acting Administrator	94	Reinforcing steel bars, Grade 40, various sizes C.2.12 Access hand rail				
NATION, 3y: SMCR. El		(G.I. Pipe schedule 40) 50mm dia.	487.00	l.m.	1,240.28	604,016.36
and A		Sub-Total of Item (C.2) C.3 Dam Crest				665,446,284.27
<u>R.</u>	95	C.3.1 Crest Sub-base Course [gravel]	275.00	cu.m	1,365.93	375,630.75
TOTOR G. SEARES, JR. atol for d Finance Sector	96	C.3.2 Crest Surface Course [gravel]	77.00	cu.m	2,245.39	172,895.03
TOR G. SEA for Inance Sector	97	C.3.3 Portland Cement Concrete Pavement,	335.00	cu.m	10,648.76	3,567,334.60
RET VIO	00	150mm thk (28 MPa), Class AA	52.2			
Winess: MR. ROBERT VICTOR Deputy Administrator for Administrative and Finan	98	C.3.4 Metal Guardrail (Flex Beam) including Concrete Post	688.00	l.m.	3,436.25	2,364,140.00
	99	C.3.5 Metal Guardrail (Flex Beam), End piece	2.00	set	5,085.15	10,170.30
Pranch Office		including Concrete Post, bolt, nut and washer				
	100	C.3.6 Supply, Installation & Testing of Electrical Works	1.00	L.S.	4,959,696.00	4,959,696.00
Witness: MR. CAO WEI General Manager of CWE Philippine		(Perimeter Lighting including lighting Control Panel distribution line, Hot	5			
300 W 00 00 900		dipped galvanized, pole, Lighting, grounding and				
ernationa		cables with the dam crest and from dam crest to valve house				
s / China Innsortium) nsortium) AMO		Sub-Total of Item (C.3)				11,449,866.68
Ferdstar Builders Contractors / China International Water and Electric Corp. (Consortium) By: MR. HERDINAND-L., BELFARAN Authorized Representative AMO	101	C.4) Supply, Installation and Testing of Dam and Spillway Instrumentation	1.00	L.S.	4,213,671.00	4,213,671.00
Iders C.		a. Bench Mark (2 unit)	2 10 2514			
star Bui		Pag	e 10 of 14			
Ferds: Water By: Auth						

NATIONAL IRRIGATION ADMINISTRATION	By:		8		ENGR. EDUARDO EDDIE G. GUILLEN	Acting Administrator			
					OR G. SEARES. JR.	м —	nce Sector	>	
W tness.		5	5		MR. ROBERT VICTOR G. SEARES. JR.	Deputy Administrator for	Administrative and Finance Sector		
Witness:		4	1	くくくが	MR. CAO WEI	General Manager	of CWE Philippine Branch Office		
Ferdstar Builders Contractors / China International	Water and Electric Corp. (Consortium)				MR FERDINAND L. BELFRAN	Authorized Representative / AMO			

		1	T		
	b. Surface Monuments				
	(12 unit)				
	c. Open type Piezometer				
	(15 unit)				
	d. Automatic Rainfall				
	Gauge (1 unit)				
	e. Seepage Monitoring				
	Weir (2 unit)				
	f. Reservoir Level				
	Gauge (1 unit)				
	C. DAM				
	g. Accelelometer (2 unit)				
, ·	h. Instrumentation				
	Observation Station				
	(1 unit)				
	Sub-Total of Item (C.4)				4,213,671.00
	Sub-Total (C)				781,283,248.32
	D. SPILLWAY				,51,255,245.52
	D.1 Excavation and				
	Foundation Preparation				
102	D.1.1 Common Excavation	454,466.00	cu.m.	141.24	64,188,777.84
103	D.1.2 Rock Excavation	562,545.00	cu.m.	275.37	154,908,016.65
104	D.2 Filling & Backfilling	12,056.00	cu.m.	193.67	2,334,885.52
105	D.3 Overhaul Waste	439,396.00	u.m.	106.01	46,580,369.96
	Disposal (AHD = 1.5km)				TAN CHILLIAN TO THE BOARD CONTRACT CHILDREN
106	D.4 Structural Concrete,	18,398.00	cu.m.	11,172.06	205,543,559.88
	(35 Mpa), Class 2				
107	D.5 Structural Concrete,	9,780.00	cu.m.	9,772.31	95,573,191.80
	(28 MPa), Class AA				
108	D.6 Supply, Deliver, Furnish	1,076,950.00	kgs	67.89	73,114,135.50
	and Install of Reinforcing				70,221,200,00
	Steel Bar, Grade 60,				
	various sizes				
109	D.7 PVC Water stop 0.2m	3,636.00	l.m.	1,379.83	5,017,061.88
	width with center bulb and			7	0,021,002.00
	Dum bell type (10mm thk)				
110	D.8 Dowel Bars, 16mm dia.	1,386.00	pc	902.23	1,250,490.78
	x 1.2 meter long, 0.6 meter			302.23	1,200,450.76
	wrapped with Denso tape				
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	Z							
	NATIONAL IRRIGATION ADMINISTRATION				ENGR. EDØARDO EDDIE G. GUILLEN			
	IRRIGATION		0	/	ARDO EDDI	istrator		1
	NATIONAL	By:			ENGR. EDU	Acting Administrator		1
		_				1		1
					ACTOR G. SEARES, JR.		Sector	
		_	<		RT VICTOR	Deputy Administrator for	Administrative and Finance Sector	1
<	Witness:		J		MR. ROBERT V	Deputy Adm	Administrali	1
							anch Office	
	:3		VI	A SAN	AR. CAO WEI	General Manager	of CWE Philippine Branch Office	1
	Witness:		T	1	MR. C	Genera	ofCW	
	nternational							1
	uilders Contractors / China International	Electric Corp. (Consortium)	1	100 M	MNANDE-BEFRAN	d Representative / AMO		

111	D.9 Supply and Installation of Anchor Bars,	924.00	рс	2,615.57	2,416,786.68
	25mmØ X 3.0m (for Rocks)			2,013.37	
112	D.10 Supply and Installation	3,637.00	sq.m.	1.576.10	5,732,275.70
	of Bituminous Joint Filler		3 4.m.	1,576.10	
113	D.11 Supply and Installation	10,481.00	sa m	294.03	3,081,728.43
	of Geotextiles, unwoven filter		sq.m.	294.03	
114	D.12 1/2" Gravel Filter Mat'l.	1,910.00	cu.m.	1,076.82	2,056,726.20
115	D.13 250 mm. Ø HDPE /	2,669.00	l.m.		6,105,337.50
	Concrete (Perforated) Pipe			2,287.50	
116	D.14 Supply & Installation	710.00	l.m.		372,863.60
	of PVC 50 mm dia.,			525.16	372,003.00
	3.4mm thick wall for weephole				
	D.15 Spillway Bridge				
117	D.15.1 Structural Concrete	554.00			5,535,019.54
	(28 Mpa), Class AA		cu.m.	9,991.01	3,333,013.34
	D. SPILLWAY				
	D.15 Spillway Bridge				
118	D.15.2 Structural	124.00			1,107,647.36
	Concrete (21 Mpa), Class A		cu.m.	8,932.64	
119	D.15.3 Supply, Deliver,				
	Furnish and Install of				
	Reinforcing Steel Bar				
	a. Grade 60, various sizes	54,279.68	kgs	70.61	3,832,688.20
120	b. Grade 40, various sizes	7,524.00	kgs	70.75	532,323.00
121	D.15.4 Preformed Expansion	4.00	50 m	94.41.00.00000000	4,782.80
	Joint Filler (12mm thk)	4.00	sq.m.	1,195.70	
122	D.15.5 Preformed Expansion	10.00		2 054 07	20,619.70
	Joint Filler (25mm thk)		sq.m.	2,061.97	
123	D.15.6 Joint Sealant		gal		18,046.83
124	D.15.7 Elastomeric Bearing	3.00	set	6,015.61	77,245.68
	Pad (250X350X50mm)	24.00	Set	3,218.57	77,245.68
125	D.15.8 Expansion Joint	62.00	l.m.		200 207 00
				6,441.74	399,387.88
126	D.15.9 Drain Pipe (12.5cm	12.00	рс	1,995.08	23,940.96
	dia. Schedule 40, White PVC),				
	1900 mm long				
	Sub-Total (D)				679,827,909.87
	Sub-Total (II)				1,922,330,561.20
	TOTAL AMOUNT OF BID	1			1,941,121,209.17

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4. The National Irrigation Administration agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof, the parties thereto have caused this Agreement to be executed the day, month and year first before written.

Signed by:

Signed by:

Acting Administrator

NATIONAL IRRIGATION **ADMINISTRATION**

Authorized Representative/AMO

FERDSTAR BUILDERS CONTRACTORS / CHINA INTERNATIONAL WATER AND ELECTRIC CORP. (CONSORTIUM)

In the presence of:

In the presence of:

Witness:

MR. ROBERT VICTOR G. SEARES, JR

Name and Signature

Name and Signature

ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES)
QUEZON CITY) S.S.
QUEZON CITY) S.S. NOV 0 7 2023 Personally appeared before me this day of
Personally appeared before me this
This Contract Agreement, consisting of fourteen (14) pages, including this notarial acknowledgement, duly signed by both parties and their instrumental witnesses on each and every page thereof, refers to the Construction of Bayabas Rockfill Dam and its Appurtenant Structures in Region 3 under Small Reservoir Irrigation Project, Contract No. R3-BSRIPD-C-37.
WITNESS MY HAND AND NOTARIAL SEAL on the date and at the place first above-written. ATTY WILLIAM V. ALGOTE JA. NOTARY PUBLIC UNTIL DECEMBER 31, 20 ROLL 45 FTR 119 first December 31, 20 IBP LIFETIME # 91896 7 3-07 ICLE # VI-8916 815 1-4-22 ISSUED On TIN No.

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