Corp. Philippine Branch

nternational Water

EDUARDO EDDIE G. GUILLEN

Authorized Managing Officer

Contract Agreement

Contract No. R12-TSRIPD-C-40

WHEREAS, the Entity is desirous that the Contractor execute Construction of Tulunan Earthfill Dam and its Appurtenant Structures in Region 12 under Small Reservoir Irrigation Project, Contract No. R12-TSRIPD-C-40 (hereinafter called "the Works") and the Entity has accepted the Bid for ONE BILLION FIVE HUNDRED SEVENTY NINE MILLION FOUR HUNDRED FORTY FIVE THOUSAND FOUR HUNDRED THIRTY ONE AND 24/100 PESOS (PhP1,579,445,431.24) 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 No. 1;
 - **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;

Administrator

Authorized Managing Officer

- c. Performance Security;
- 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 FIVE HUNDRED SEVENTY NINE MILLION FOUR HUNDRED FORTY FIVE THOUSAND FOUR HUNDRED THIRTY ONE AND 24/100 PESOS (PhP1,579,445,431.24) or such other sums as may be ascertained, Sinopeak Construction, Inc./ 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	Qty.	Unit	Unit Cost	Total Cost
1	A. Temporary Works, Const.	1.00	L.S.	25,784,793.99	25,784,793.99
	Plant, Mobilization of		4.07	23,701,733.33	23,704,733.33
	Construction Equipment				ŷ-
	and Demobilization Work				
	SUB-TOTAL A				25,784,793.99
2	B. Construction Safety and Health	1.00	L.S.	10,448,688.17	10,448,688.17
	SUB-TOTAL B				100
^					10,448,688.17
3	C. Diversion & Care of River During	1.00	L.S.	4,331,088.54	4,331,088.54
	Construction & Dewatering				
	SUB-TOTAL C				4 221 000 54
			L		4,331,088.54

Sinopeak Construction, Inc. / China International	Witness:	Witnes:	NATIONAL IRRIGATION ADMINISTRATION
Water and Electric Corp. (Consortium)		-	By:
By:	,		
	John my ile		

ENGR ÉDIVARDO EDDIE G. GUILLEN

MR. ROBERT VICTOR Deputy Auministrator for Administrative and

> International Water & Electric Project Director of China

Corp. Philippine Branch

D. Clearing and Grubbing and

Ms. MARICEL A. CALONIA
Authorized Managing Officer

	4	D. Clearing and Grubbing and	126,848.00	sq.m.	240.63	30,523,434.24
		Disposal of Waste Materials - Dam				33,023,434.24
		Area (Including AHD = 4.0 km)				
		SUB-TOTAL D				30,523,434.24
	5	E. DAM AREA				30,323,434.24
		Excavation and Foundation Preparation				7
		a. Common	204 112 24	70.20070-0-10-0-10-0		10-114 (MICE)
		b. Rock	204,112.34	cu.m.	122.24	24,950,692.44
	_		30,357.39	cu.m.	520.05	15,787,360.67
	6	Overhaul/Disposal of Waste Materials	234,469.73	cu.m.	104.94	24,605,253.47
	7	(AHD = 4.0 km)				
	/	Dam Embankment				
		a) Test Fill	1,500.00	cu.m.	484.94	727,410.00
		b) Impervious Clay Core	228,332.36	cu.m.	298.50	68,157,209.46
		c) Random Fill	418,359.75	cu.m.	262.37	109,765,047.61
		d) Boulder Riprap	31,302.05	cu.m.	1,383.05	43,292,300.25
		e) Gravel Blanket	11,021.85	cu.m.	1,256.40	13,847,852.34
		f) Rock Toe Drain	49,225.95	cu.m.	1,352.15	66,560,868.29
		g) Grass Sodding	22,815.78	sq.m.	338.33	7,719,262.85
		h) Filter Drain (Sand & Gravel)	64,578.54	cu.m.	1,284.10	82,925,303.21
		Sand = 32,191.66				
8		Gravel = 32,386.88 Concrete Structures				
		a) Class "A", 20.68 Mpa				
9			71.29	cu.m.	11,347.43	808,958.28
-		Reinforcing Steel Bars, all sizes a) Grade 40				
	_		3,974.70	kg	106.18	422,033.65
1	0	Drilling and Grouting				ž
		a) Drilling (Non-coring)	3,285.00	l.m.	3,404.72	11,184,505.20
		b) Standpipe (2" dia x 1m)	331.00	pcs	1,772.73	586,773.63
		c) Checkhole (Core-drilling)	147.00	l.m.	3,195.65	469,760.55
		d) Pressure Grouting	1,642.50	bags	3,099.24	5,090,501.70
		e) Water Pressure Test	49.00	test	2,668.91	130,776.59
1	1	Dam Instrumentation			,	350,70,33
		a) Standpipe Piezometer	1.00	L.S.	4,052,490.75	4,052,490.75
		(Furnish 22 sets)				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Page 3 of 12

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1.			
NATIONAL IRRIGATION ADMINISTRATION By:	POLICE ENTRE CHAIRE COMMEN	Administrator	
	at savas of notation as an	Deputy Administrator for Administrative and Kinance Sector	
		aor f	
		Deputy Administrator for Administrative and Finan	Elizamençası
	is a	Anm	anneadly
Winness	0	eputy dmini	
3	2	Y Q	
Witness:	The All And	Project Director of China International Water & Electric	Corp. Philippine Branch
Sinopeak Construction, Inc. / China International Water and Electric Corp. (Consortium)	By:		

	b) Standpipe Piezometer	1.00	L.S.	251,424.10	251,424.10
	(Installation 22 sets)			300 A C C C C C C C C C C C C C C C C C C	,
	c) Non-Core Drilling	678.64	l.m.	3,391.11	2,301,342.89
	d) Surface Measuring Point	25.00	unit	16,675.55	416,888.75
	e) Reference Bench Mark	2.00	unit	33,445.72	66,891.44
	f) Staff Gauge	28.00	unit	13,924.44	389,884.32
	g) Seepage Canal and	242.51	l.m.	36,585.94	8,872,456.31
	Measuring Weir			30,303.54	6,672,430.31
12	Reservoir Instrumentation				
	a) Wind and Vane Anenometer				
	a.1 Excavation (Common)	0.97	cu.m.	123.72	120.01
	a.2 Backfilling	0.54	cu.m.	107.47	58.03
	a.3 Concrete Structures	0.57	cu.m.	11,543.37	6 , 579.72
	(Class "A", 20.68 Mpa)				0,373.72
	a.4 Reinforcing Steel Bars,	11.62	kg.	109.91	1,277.15
	All Sizes (Grade 40)			200.01	1,277.13
	a.5 Anenometer Steel Post	1,00	unit	64,818.50	64,818.50
	and Assembly			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 1,020.00
	a.6 Wind and Vane Anenometer	1.00	set	148,312.50	148,312.50
	a.7 Rain Gauge	1.00	set	255,131.93	255,131.93
	a.8 Evaporation Pan	1.00	set	368,146.05	368,146.05
	b) Pavement			,	400/2 10100
	b.1 Concrete Structures	16.38	cu.m.	13,133.81	215,131.81
	(Class "A", 20.68 Mpa)	10.00	Cum	10,100.01	213,131.01
	b.2 Gravel Blanket	16.38	cu.m.	1,370.41	22,447.32
	b.3 Reinforcing Steel Bars,	692.12	kg.	107.82	74,624.38
	All Sizes (Grade 40)			107.02	74,024.36
	c) Railings				
	c.1 Excavation (Common)	7.86	cu.m.	120.07	943.75
	c.2 Backfilling	2.95	cu.m.	107.34	316.65
	c.3 Concrete Structures	6.55	cu.m.	12,120.01	79,386.07
	(Class "A", 20.68 Mpa)	0.55	33,111	12,120.01	75,560.07

Page 4 of 12

NATIONAL	IRRIGATION	N ADMINISTRATION
3v:		

OIE G. GUILLEN

NATIONAL IRRIGATION By:	S. JR. ENGR EDUKRDO EDDI Adıpkiistrator	
	ERTIVICTOR G. SEARES, JR. mini trator for tiive and Rinance Sector	
Witnes	MR. ROB Deputy Ad Administra	
Witness:	MR. XVEFENG ZHANG Project Director of Chira International Water & Electric Corp. Philippine Branch	
Sinopeak Construction, Inc. / China International Water and Electric Corp. (Consortium)	3y: Ms. Maricel A. Calonia Authorized Managing Officer	

	c.4 Reinforcing Steel Bars,	292.75	kg.	110.52	32,354.73
	All Sizes (Grade 40)			110.32	32,334.73
	c.5 Masonry Work	32.75	sq.m.	1,695.48	55,526.97
	c.6 3" Ø G.I. Pipe Sch. 40	138.00	l.m.	1,727.33	238,371.54
	d) Stairs	200.00	.,.,.	1,727.33	230,371.34
	d.1 Excavation (Common)	1.02	cu.m.	122.84	125.30
	d.2 Backfilling	0.67	cu.m.	107.65	72.13
	d.3 Concrete Structures	0.63			
	(Class "A", 20.68 Mpa)	0.03	cu.m.	12,121.97	7,636.84
	d.4 Gravel Blanket	6.78	cu.m.	1,185.63	8,038.57
	d.5 Reinforcing Steel Bars,	37.95			
	All Sizes (Grade 40)	37.33	kg.	110.83	4,206.00
	d.6 3" Ø G.I. Pipe Sch. 40	38.00	I.m.	1,824.57	69,333.66
-	e) Sediment Monitoring Range	55,00	(32.4744.34	1,02 1.57	03,333.00
	and Reference Monument				
	e.1 Excavation (Common)	7.63	cu.m.	122.03	931.09
	e.2 Backfilling	3.81	cu.m.	106.24	404.77
	e.3 Concrete Structures	1.37	cu.m.	12,152.43	16,648.83
	(Class "A", 20.68 Mpa)			/	20,0 (0.00
	e.4 Reinforcing Steel Bars,	365.31	kg.	110.82	40,483.65
	All Sizes (Grade 40)				
	e.5 Reference Monument	18.00	units	1,698.60	30,574.80
	f) Perimeter Fence				
	f.1 Excavation (Common)	26.13	cu.m.	122.54	3,201.97
	f.2 Backfilling	18.24	cu.m.	106.05	1,934.35
	f.3 Concrete Structures	3.24	cu.m.	12,144.76	39,349.02
	(Class "A", 20.68 Mpa)				,
	f.4 Gravel Blanket	1.78	cu.m.	1,187.14	2,113.11
	f.5 Reinforcing Steel Bars,	192.29	kg.	110.97	21,338.42
	All Sizes (Grade 40)				
	f.6 Steel Fence	74.31	I.m.	2,896,44	215,234.46
13	Miscellaneous Metal Works				
	and Materials				

2	*
NATIONAL IRRIGATION ADMINISTRATION By:	ENGR. EDUARDO EDDIE G. GUILLEN Administrator
Winess:	MR. ROBERT VICTOR C. SEARES, JR. Deputy Administrator for Administrative and France Sector
Witness:	MR. XUEFENG ZHANG Project Director of China International Water & Electric Corp. Philippine Branch
Sinopeak Construction, Inc. / China International Water and Electric Corp. (Consortium)	Ms. MKRICEL A. CALONIA Authorized Managing Officer

	a) Zina Coated Matel D		T		
	a) Zinc Coated Metal Beam	1,200.00	l.m.	1,512.11	1,814,532.00
	Raii x 3.0m (AASHTO M180) Excluding Concrete Post				
	MARKON AND AND				
	b) 75 mm Ø G.I. Pipe Railings	675.23	l,m,	1,732.79	1,170,031.79
	(Schedule 40)			1	I.
14	Base Course (Crest Surfacing)	560.00	cu.m.	1,238.56	693,593.60
	SUB-TOTAL E				499,086,580.22
15	F. SPILLWAY				455,000,500.22
	Excavation and Foundation				
	Preparation				
	a) Common	227,051.93	cu.m.	112.62	25,570,588.36
	b) Rock	231,815.94	cu.m.	599.31	138,929,611.00
16	Overhaul/Disposal of Waste	430,821,48			
	Materials (AHD=4.0 km)	430,621.46	cu.m.	105.18	45,313,803.27
17	Filling and Backfilling	28,641.39	cu.m.	107 10	3 676 000 00
	(From common excavation)	20,041.33	Cu.iii.	107.40	3,076,085.29
18	Concrete Structures	20,057.37	cu.m.	11,643.94	233,546,812.84
	a) Class "A", 20.68 Mpa	20/00/30/	CG.(1).	11,043.54	233,340,63.2.64
19	Reinforcing Steel Bars, all sizes	1,811,847.93	kg.	108.28	196,186,893.86
	a) Grade 40	-,		100.20	130,180,893.80
20	Concrete Joint and Joint				
A CONTROL OF THE CONT	Materials				
	a) PVC Waterstop	4,477.84	l.m.	2,851.43	12,768,247.31
	(23cm Dumbell Type)				
	b) Joint Sealant	895,57	lit	1,096.27	981,786.52
21	Filter Drain	V 300 V 300 V 30		,	
ne di Administrate Australia	a) Coarse & Fine Aggregates	37,961.02	cu.m.	909.30	34,517,955.49
	b) 5cm Ø Weep Holes	28,70	l.m.	685.30	19,668.11
22	Asphalt Para Plastic Sealant	2,800.00	liter	1,874.94	
23	Rubble Masonry	720.00			5,249,832.00
24	Anchor Bars (25 mm Ø x		cu.m.	6,320.43	4,550,709.60
	1.5m Deformed Bars)	4,456.00	pcs.	1,009.96	4,500,381.76
25	Miscellaneous Metal Works				
	and Materials				
	a. Fixed Bearing Plate	2.00	set	12,238.95	24,477.90
			2534(15)		2,777.50
		100 AER (1750)			

Page 6 of 12

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ENGREDOARDO EDDIE G. GUILLEN
Addinistrator

MR. ROBERT VICTOR G. SEARES, JR.
Deputy Administrator for
Admin strative and Finance Sector

MR. XDEFENG ZHANG
Project Director of China
International Water & Electric
Corp. Philippine Branch

Ms. MARICEL A. CALONIA
Authorized Managing Officer

Witness:

Sinopeak Construction, Inc. / China International

Water and Efectric Corp. (Consortium)

(10mm ø Gi Pipe) c. Neophrene Bearing Pad Duro Hardness, Shore A (ASTM D-2240) 60 d. Filler Boards (Cannex Board) e. Dowel Bars (20mm diameter x 0.80m) f. 5cm ø Perforated PVC Pipe g. 10mm ø Perforated PVC Pipe SUB-TOTAL F 6. G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049,30 cu.m. 1,094.29 21,939,748.5 721,442,163.1 732,526.80 Filling and Backfilling 1,552.64 cu.m. 268.56 416,977.0 Concrete Structures a. Class "A", 20,68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 5,000.80 lit. 4,204.47 21,025,713.51 27,367.61 6,568.2 2	-					
C. Neophrene Bearing Pad Duro Hardness, Shore A (ASTM D-2240) 60		• • • • • • • • • • • • • • • • • • •	12.00	pc.	1,684.25	20,211.00
Hardness, Shore A (ASTM D-2240) 60 d. Filler Boards (Cannex Board) e. Dowel Bars (20mm diameter x 0.80m) f. 5cm Ø Perforated PVC Pipe g. 10mm Ø Perforated PVC Pipe SUB-TOTAL F G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.5 70 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 8 Filling and Backfilling Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks 67,340.00 pcs. 166.83 11,234,332.2 11,234,32.2 11,234,332.2 11,234,332.2 11,234,332.2 11,234,332.2 11,234,32		ACT COMMENT OF CONTROL STATE OF COMMENT AND COMMENT AN				
(ASTM D-2240) 60 d. Filler Boards (Cannex Board) e. Dowel Bars (20mm diameter x 0.80m) f. Scm Ø Perforated PVC Pipe g. 10mm Ø Perforated PVC Pipe SUB-TOTAL F G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049.30 b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.5 70 Overhaul/Disposal of Waste Materials (AHD=2,0 km) 8 Filling and Backfilling Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31,540.50 32,008.00 31,540.50 32,009.00 31,540.50 32,009.00 31,540.50 32,009.00 31,234.332.20 32,666.02 33,509.40 34,863,294.40 35,000.80 36,663.20 36,663.20 37,79,736,086.80 38.99 48,863,294.40 39,000.00 48,863,294.40 39,000.00 48,863,294.40 30,000.00 48,863,294.40 48,863,294.40 30,000.00 48,863,294.40 48,8		B	0.24	sq.m.	27,367.61	6,568.23
d. Filler Boards (Cannex Board) e. Dowel Bars (20mm diameter x 0.80m) f. Scm Ø Perforated PVC Pipe 204.75 l.m. 743.05 152,139,4 24,760,518.3 721,442,163.1		W.				
(Cannex Board) e. Dowel Bars (20mm diameter x 0.80m) f. Scm Ø Perforated PVC Pipe g. 10mm Ø Perforated PVC Pipe SUB-TOTAL F G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049.30 cu.m. 54,959.06 Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 32,045.00 54,740.00 57,340.00 pcs. 166.83 11,234,332.2 11,		1000 to \$1000000000000000000000000000000000000				
e. Dowel Bars			8.99	sq.m.	3,508.40	31,540.52
(20mm diameter x 0.80m) f. 5cm Ø Perforated PVC Pipe g. 10mm Ø Perforated PVC Pipe S. 204.75 I.m. 743.05 152,139,4 g. 10mm Ø Perforated PVC Pipe S. 262.80 I.m. 904.56 4,760,518.3 721,442,163.1 721,4		_				
f. 5cm Ø Perforated PVC Pipe g. 10mm Ø Perforated PVC Pipe 5,262.80 i.m. 904.56 4,760,518.3 SUB-TOTAL F 5,262.80 i.m. 904.56 4,760,518.3 721,442,163.1 721,442,144,144,144,144,144,144,144,144,1		TO AND THE CONTROL OF	67,340.00	pcs.	166.83	11,234,332.20
g. 10mm Ø Perforated PVC Pipe S,262.80 SUB-TOTAL F G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049.30 cu.m. 684.44 24,956,325.0 21,939,748.5 22 Overhaul/Disposal of Waste Materials (AHD=2.0 km) Filling and Backfilling 1,552.64 cu.m. 268.56 416,977.0 27 Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 5,000.80 Lm. 743.05 152,139.4 4,760,518.3 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1 721,442,163.1		3000 /4/				
SUB-TOTAL F G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049.30 Cu.m. Filling and Backfilling Concrete Structures a. Class "A", 20.68 Mpa Reinforcing Steel Bars, All Sizes (Grade 40) Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Sagara 721,442,163.1			204.75	l.m.	743.05	152,139.49
SUB-TOTAL F G. OUTLET WORKS Excavation and Foundation preparation a. Common 36,462.40 b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.51 27 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 28 Filling and Backfilling 29 Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 32 Trash Racks 721,442,163.1 7721,442,163.1		g. 10mm Ø Perforated PVC Pipe	5,262.80	l.m.	904.56	4,760,518,37
26 G. OUTLET WORKS Excavation and Foundation preparation a. Common b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.5 27 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 28 Filling and Backfilling 1,552.64 cu.m. 268.56 416,977.0 29 Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 5,000.80 lit. 4,204.47 21,025,713.56		SUB-TOTAL F				
preparation a. Common 36,462.40 cu.m. 684.44 24,956,325.0 b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.5 27 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 28 Filling and Backfilling 1,552.64 cu.m. 268.56 416,977.0 29 Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 32 Trash Racks	26	G. OUTLET WORKS				721,442,163.12
a. Common b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.5 27 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 28 Filling and Backfilling 29 Concrete Structures a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 5,000.80 lit. 4,204.47 21,025,713.58						
b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.51 27 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 28 Filling and Backfilling 29 Concrete Structures 2,666.02 cu.m. 268.56 416,977.00 29 a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials 2 a. PVC Waterstop (23cm Dumbell Type) 2 b. Joint Filler 3 (Bituminous Type) c. Joint Sealant 5 0,000.80 lit. 4,204.47 21,025,713.58						
b. Rock 20,049.30 cu.m. 1,094.29 21,939,748.5 27 Overhaul/Disposal of Waste Materials (AHD=2.0 km) 28 Filling and Backfilling 29 Concrete Structures 2,666.02 cu.m. 268.56 416,977.0 29 a. Class "A", 20.68 Mpa 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 32 Trash Racks 20,049.30 cu.m. 1,094.29 21,939,748.5 20,049.30 cu.m. 392.10 21,549,447.4 21,939,748.5 22,666.02 cu.m. 18,328.18 48,863,294.4 268.56 416,977.0 268.56 416,977.0 27,736,086.8 28,863,294.4 29 Concrete Joints and Joint Materials a. PVC Waterstop (33cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant 5,000.80 lit. 4,204.47 21,025,713.58		a. Common	36,462.40	cu.m.	684.44	24,956,325.06
Materials (AHD=2.0 km) 54,959.06 cu.m. 392.10 21,549,447.4 28 Filling and Backfilling 1,552.64 cu.m. 268.56 416,977.0 29 Concrete Structures 2,666.02 cu.m. 18,328.18 48,863,294.4 30 Reinforcing Steel Bars, 501,012.17 kgs. 159.15 79,736,086.8 All Sizes (Grade 40) 501,012.17 kgs. 159.15 79,736,086.8 31 Concrete Joints and Joint Materials 945.00 L.m. 5,906.75 5,581,878.7 4 (23cm Dumbell Type) 173.15 sq,m. 3,732.92 646,355.16 4 (Bituminous Type) 5,000.80 lit. 4,204.47 21,025,713.58 32 Trash Racks		b. Rock	20,049.30	cu.m.	1,094.29	21,939,748.50
Materials (AHD=2.0 km) 1,552.64 cu.m. 268.56 416,977.00 29 Concrete Structures 2,666.02 cu.m. 18,328.18 48,863,294.44 30 Reinforcing Steel Bars, 501,012.17 kgs. 159.15 79,736,086.80 31 Concrete Joints and Joint Materials 945.00 L.m. 5,906.75 5,581,878.73 (23cm Dumbell Type) 173.15 sq,m. 3,732.92 646,355.10 (Bituminous Type) 5,000.80 lit. 4,204.47 21,025,713.50 32 Trash Racks 32 Trash Racks 3,732.92 4,204.47 21,025,713.50	27	Overhaul/Disposal of Waste	54,959.06	cu.m.	392 10	21 549 447 42
1,552.64 cu.m. 268.56 416,977.00 29 Concrete Structures 2,666.02 cu.m. 18,328.18 48,863,294.44 30 Reinforcing Steel Bars, All Sizes (Grade 40) 31 Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks 1,552.64 cu.m. 268.56 416,977.00 20,666.02 cu.m. 18,328.18 48,863,294.44 48,863,294 48,863,29		Materials (AHD=2.0 km)	V 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		332.10	21,040,447.43
29 Concrete Structures	28	Filling and Backfilling	1,552.64	cu.m.	268.56	416,977.00
a. Class "A", 20.68 Mpa Reinforcing Steel Bars, All Sizes (Grade 40) Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks S01,012.17 kgs. 159.15 79,736,086.86 L.m. 5,906.75 5,581,878.79 646,355.16 173.15 sq.m. 3,732.92 646,355.16	29	Concrete Structures	2.666.02	cu m	18 328 18	
All Sizes (Grade 40) Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks 501,012.17 kgs. 159.15 79,736,086.80 159.15 79,736,086.		a. Class "A", 20.68 Mpa	2,000.02	ÇG.III.	10,526.16	40,003,294.44
All Sizes (Grade 40) Concrete Joints and Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks All Sizes (Grade 40) 945.00 L.m. 5,906.75 5,581,878.75 945.00 L.m. 5,906.75 5,581,878.75 646,355.16 5,000.80 lit. 4,204.47 21,025,713.58	30	Reinforcing Steel Bars,	501 012 17	kac	150.15	70 724 004 04
Joint Materials a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks Joint Materials 945.00 L.m. 5,906.75 5,581,878.79 646,355.10 5,000.80 Jit. 4,204.47 21,025,713.58		All Sizes (Grade 40)	301,012.17	ngs.	153.15	73,735,085.85
a. PVC Waterstop (23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks 945.00 L.m. 5,906.7,5 5,581,878.75 646,355.16 5,000.80 lit. 4,204.47 21,025,713.58	31	NE PAGE STANGER NO. NO. AN				
(23cm Dumbell Type) b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks 945.00 L.m. 5,906.75 5,581,878.75 173.15 sq,m. 3,732.92 646,355.16 5,000.80 lit. 4,204.47 21,025,713.58						
b. Joint Filler (Bituminous Type) c. Joint Sealant Trash Racks 173.15 sq,m. 3,732.92 646,355.16 5,000.80 lit. 4,204.47 21,025,713.58		4	945.00	L.m.	5,906.7,5	5,581,878.75
(Bituminous Type) c. Joint Sealant Trash Racks 173.15 sq,m. 3,732.92 646,355.16 5,000.80 lit. 4,204.47 21,025,713.58						
c. Joint Sealant 5,000.80 lit. 4,204.47 21,025,713.58		DOMESTICATE (1990) - 1990) D. C	173.15	sq,m.	3,732.92	646,355.10
5,000.80 lit. 4,204.47 21,025,713.58		(Bituminous Type)				
32 Trash Racks		c. Joint Sealant	5,000.80	lit.	4,204.47	21,025,713.58
2 1 210 are v 400 are	32	Trash Racks				
		a.1 210cm x 490cm	2.00	assy	440,506.49	881,012.98
(Diversion)		(Diversion)				,,,,,
a.2 110cm x 270cm 4.00 assy 253,396.46 1,013,585.84		a.2 110cm x 270cm	4.00	assy	253,396.46	1,013,585.84
(Intake Tower)		(Intake Tower)				_,,

Page 7 of 12

2.00	*	
NATIONAL IRRIGATION ADMINISTRATION By:	ENGR. EDUARDO EDDIE G. GUILLEN Administrator	
Witness	MR. ROBERT VICTOR G. SEARES. JR. Deputy Admin strator for Administrative and Finance Sector	
Witness:	MR. WUEFENG ZHANG Project Director of China International Water & Electric	Corp. Philippine Branch
Sinopeak Construction, Inc. / China International Water and Electric Corp. (Consortium)	By: Ms. MARICEL A. CALONIA Authorized Managing Officer	

				-	
33	Fabrication, Supply,	1.00	L.S.	16,062,800.87	16,062,800.87
	Delivery and Installation			10,002,800.87	10,002,800.87
	of Steel Pipe, Wye,				
	Reducer Pipe, Flanges		-		
	and other accessories				
	to complete the works				
	including Non				
	Destructive Testing				
34	Miscellaneous Metal				
	Works and Materials				
	a. Dowel Bars (20mm	2,394.00	pcs.	161.55	200 750 70
	diameter x 0.80m)	2,354.00	pc3,	101.55	386,750.70
	b. Ladder Rung	63.00	pcs.	458.13	28,862.19
	(25mm diameter)	03.00	pcs.	436.13	20,002.19
35	Supply, Delivery,				
	Installation, Testing &				
7	Commissioning of				
	Gate Valve, Butterfly				
	Valve, & Dresser Coupling				
	a. 900 mm Ø Gate Valve	2.00	SCEN	7 460 215 21	4.020.620.42
	Rising Stem with By -	2.00	assy	2,469,315.21	4,938,630.42
	Pass Valve				
	b. 900 mm Ø Butterfly Valve	2.00			
	c coo mm (4 Drassas Causti	2.00	assy	1,479,880.99	2,959,761.98
26	c. 900 mm Ø Dresser Coupling	7.00	assy	362,674.03	2,538,718.21
36	Thrust Block				
	a. Excavation				
	a.1. Common	427.68	cu.m.	122.22	52,271.05
	a.2. Rock				
	h 5'll	142.56	cu.m.	519.24	74,022.85
	b. Filling and Backfilling	104.56	cu.m.	106.85	11,172.24
	c. Class "A", 20.68 Mpa	23.56	cu.m.	12,151.19	286,282.04
	d. Reinforcing Steel Bars,	566.63	kg.	110.61	
	All Sizes (Grade 40)	300.03	Ng.	110.01	62,674.94
37	Valve House				
	a. Excavation				
	a.1. Common				
L		97.77	cu.m.	122.07	11,934.78

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IRRIG/	
TONAL	
NAT	By:

ENGR. ENUKRDO EDDIE G. GUILLEN Administrator

> MR. ROBERT VICTOR G. SEARES, JR. Administrative and Binance Sector Deputy Administrator for

> > International Water & Electric Corn. Philippine Branch

MR. XCEFENG ZHA Project Director of Chi

Water and Electric Corp. (Consortium) Authorized Managing Officer

Witness:

Sinopeak Construction, Inc. / China International

By:

1					
	b. Filling and Backfilling	86.53	cu.m.	106.61	9,224.96
	c. Class "A", 20.68 Mpa	65.67	cu.m.	12,155.40	798,245.12
	d. Reinforcing Steel Bars,	12,056.82	kg.	110.75	
	All Sizes (Grade 40)	14,000.02	1,9,	110,73	1,335,292.82
	e. Joint Sealant	15.60	lit.	1,098.31	17,133.64
	f. Stainless Steel Bar	8.00			
	16mm Ø x 0.85m	8.00	pcs.	1,014.41	8,115.28
	Lifting Hanger				
	g. Fabrication & Assembly	1.00	unit	546 474 74	5.45.10.10.1
	of Removable Steel	1.00	une	546,434.24	546,434.24
	Platform (4.00m x 3.20 m) Schedule 40				
	h. 50mm Ø GI Pipe Schedule	10.60	1	2 500	
	40 Platform Railing	10.60	l.m.	2,520.01	26,712.11
	i. Fabrication & Assembly of	1.00	it	22.222.22	3271 se transcassión (1 1107 en c
	Steel Door (0.80m x 2.10m)	1.00	unit	23,338.20	23,338.20
	G.I. Pipe Schedule 40				
	j. Fabrication & Assembly of	2.00	units	11,669.11	22 220 22
	Pipe Stand (1.20m x 0.43m	2.00	units	11,009.11	23,338.22
	× 0.76m) Schedule 40				
	k. 50mm Ø GI Pipe Schedule	33.10	l.m.	2,097.14	69,415.33
	40 Stair Railing	3.757.35		2,037.14	09,413.55
	I. Fabrication & Assembly	2.00	unit	20,035.71	40,071.42
	of Aperture Matting			20,033.71	40,071.42
	(1.20m x 0.43m x 0.76m)				
20	Schedule 40				
38	Impact Basin a. Excavation				-
	a.1. Common	19.70	cu.m.	122.97	2,422.51
	b. Filling and Backfilling	11.50	cu.m.	105.59	1,214.29
	c. Class "A", 20.68 Mpa	7.86	cu.m.	12,152.41	95,517.94
	d. Reinforcing Steel Bars,	Petters Access v	300		
	All Sizes (Grade 40)	284.84	kg.	110.63	31,511.85

ON ADMINISTRATION	
NATIONAL IRRIGATION	By:

Administrator

MR. ROBERT VICTOR G. SEARES, JR. Deputy Administrator for Administrative and Finance Sector

International Water & Electric Corp. Philippine Branch Project Director of China

Sinopeak Construction, Inc. / China International Water and Electric Corp. (Consortium) Ms. MARICEL A. CALONIA
Authorized Managing Officer

Witness:

	e. Energy Dissipator	1.00	unit	68,402.66	68,402.66
20	Plate A36				111
39	Valve House Hydropower a. Excavation				
	a.1. Common	133.56	cu.m.	123.31	16,469.28
	b. Filling and Backfilling	122.32	cu.m.	106.40	13,014.85
	c. Class "A", 20.68 Mpa	64.04	cu.m.	12,152.55	778,249.30
	d. Reinforcing Steel Bars,	11,861.50	kg.	110.91	1,315,558.97
	All Sizes (Grade 40)	,		110.71	1,313,330.37
	e. Joint Sealant	15.60	lit	1,098.31	17,133.64
	f. Stainless Steel Bar	8.00	ncc		==
	16mm Ø x 0.85m	8.00	pcs.	1,014.02	8,112.16
	Lifting Hanger				
	g. Fabrication & Assembly of	1.00	unit	E46 424 24	F45 424 24
	Removable Steel Platform	1.00	OTHE	546,434.24	546,434.24
	(4.00m × 3.20 m) Schedule 40				
	h. 50mm Ø GI Pipe Schedule 40	10.60	l.m.	2,520.01	26 712 11
	Platform Railing	10.00	1.111.	2,320.01	26,712.11
	i. Fabrication & Assembly of	1.00	unit	23,338.20	23,338.20
	Steel Door (0.80m x 2.10m)			20,000.20	23,330.20
	G.I. Pipe Schedule 40				
	j. Fabrication & Assembly	2.00	units	11,669.11	23,338.22
	of Pipe Stand				
	(1.20m x 0.43m x 0.76m) Schedule 40				
	k. Fabrication & Assembly				
	of Aperture Matting	2.00	units	20,035.71	40,071.42
÷	(5.20m × 0.30m) Schedule 40				
	SUB-TOTAL G				250 020 120 70
40	H. ELECTRICAL WORKS	4.00		2 000 01 1 00	259,929,130.79
	Electrical Works	1.00	L.S.	2,960,614.60	2,960,614.60
	SUB-TOTAL H				2000 014 00
41	I. ROADS (Access to Borrow)				2,960,614.60
	a. Excavation Common	76,250.77	CILEN	121.02	0.206.402.00
	(76,250.77 cu.m.)	70,230.77	cu.m.	121.92	9,296,493.88

b. Base Course (Road Surfacing)	10,867.17	cu.m.	1,283.22	13,944,969.89
Sand & Gravel (10,867.17 cu.m.)				
c. 36" RCP (220 pcs)	220.00	pcs.	7,715,79	1,697,473.80
SUB-TOTAL I	558ACCS M2NC - 65			110 6 00000
TOTAL				24,938,937.57
TOTAL				1,579,445,431.24

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:

ENGR. EDUARDO EDDIE G. GUILLEN

Administrator V

NATIONAL IRRIGATION **ADMINISTRATION**

Authorized Managing Officer

SINOPEAK CONSTRUCTION INC./ CHINA INTERNATIONAL WATER & ELECTRIC CORP.

(CONSORTIUM)

In the presence of:

Witness

MR. ROBERT WICTOR G. SEARES, JR

Name and Signature

In the presence of:

Witness:

Name and Signature

ACKNOWLEDGEMENT

REPUBLIC OF THE PHILIPPINES) QUEZON CITY) S.S.

Personally appeared before me this _____ day of _____, 2024 at Quezon City, ENGR. EDUARDO EDDIE G. GUILLEN, Administrator, National Irrigation Administration, with Valid ID No. 935128 issued by National Irrigation Administration on May 18, 2023 and Ms. MARICEL A. CALONIA, Authorized Managing Officer, Sinopeak Construction, Inc./China International Water and Electric Corp. (Consortium), with PRC License ID No. 0098508 issued on December 17, 2003 at Manila City, known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledged to me that the same are their own free and voluntary act and deed.

This Contract Agreement, consisting of twelve (12) 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 Tulunan Earthfill Dam and its Appurtenant Structures in Region 12 under Small Reservoir Irrigation Project, Contract No. R12-TSRIPD-C-40.

WITNESS MY HAND AND NOTARIAL SEAL on the date and at the place first above-written.

NOTARY PUBLIC
Until December 31, 20
PTR No.
Issued at
Issued on
TIN No.

Colluan

ATTY. CONCEPCION P. VILLARENA

Notary Public for Guezon
Until December 31, 2025
PTW No. 5555783 / January 4, 2024 Q.C.
IBP No. 399899 / Jan. 04, 2024 / Q.C.
Roll No. 30457 / 05-09-1980
MCLE VII-0006994 / 09/21/2024
Adm. Matter No. NP-021 (2024-2025)

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