



Republic of the Philippines  
**National Irrigation Administration**  
Central Office

October 18, 2023

**MR. FERDINAND L. BELTRAN**

Authorized Representative/ AMO

Ferdstar Builders Contractors/ China International

Water and Electric Corp. (Consortium)

Villa Rosemarie, San Miguel,

Betis, Guagua, Pampanga

Subject:

**NOTICE OF AWARD**

Construction of Bayabas Rockfill Dam and its Appurtenant  
Structures in Region 3 under Small Reservoir Irrigation  
Project Invitation to Bid No. R3-BSRIPD-C-37

Dear Mr. Beltran:

Please be advised that you are awarded the above captioned contract works in the total contract amount 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)**, broken down, as follows;

Item No.	Description	Quantity	Unit	Unit Cost	Total Cost
	<b>I. GENERAL REQUIREMENTS</b>				
1	A. Temporary Works, Construction Plant, Mobilization of Const. Equipment and Demobilization Works	1.00	L.S.	16,259,915.11	16,259,915.11
2	B. Construction Safety & Health Program	1.00	L.S.	2,281,063.58	2,281,063.58
	<b>TOTAL (I)</b>				18,540,978.69
	<b>II. CIVIL WORKS</b>				
	A. Operation and Maintenance (Perimeter Fence)				
	A.1 Perimeter Fence				
	A.1.1 Site Preparation				
3	A.1.1.1. Clearing & Grubbing (Mechanized) including disposal (AHD = 1.5km)	90.00	sq.m.	17.47	1,572.30
4	A.1.1.2. Excavation (Manual)	61.00	cu.m.	92.25	5,627.25

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5	A.1.1.3. Filling & Backfill	55.00	cu.m.	194.58	10,701.90
	A.2. Concrete Works				
6	Concrete Structures (21 MPa), Class A	28.00	cu.m.	8,916.76	249,669.28
	A.3. Cyclone Fence				
7	Supply, Delivery & Installation of Cyclone Fence	170.00	l.m.	3,081.15	523,795.50
	A.4. Metal Works				
8	Supply, Delivery & Installation of Structural Steel Main Gate	1.00	set	59,657.64	59,657.64
	Sub-Total (A)				851,023.87
	B. DIVERSION TUNNEL				
9	B.1 Diversion and Care of Water with Dewatering during Diversion Tunnel Construction (Pre-Cofferdam)	1.00	L.S.	960,393.00	960,393.00
	B.2. Excavation and Foundation Preparation				
10	B.2.1 Common Excavation (Inlet and Outlet Area)	53,314.00	cu.m.	110.69	5,901,326.66
11	B.2.2 Rock Excavation (Inlet and Outlet Area)	181,175.00	cu.m.	200.47	36,320,152.25
12	B.3 Filling and Backfilling	8,327.00	cu.m.	196.28	1,634,423.56
13	B.4 Overhaul Waste Disposal (AHD = 1.5km)	42,905.25	cu.m.	93.34	4,004,776.04
	B. DIVERSION TUNNEL				
14	B.5 Shotcrete 50mm thick @ Inlet & Outlet Tunnel including wiremesh with rockbolt	17,882.00	sq.m.	2,945.98	52,680,014.36
	B.6 Tunneling				
	B.6.1 Underground excavation, all classes including disposals (include muck bays, dewatering, blowers and all incidentals to complete the excavation)				
15	B.6.1.a Underground Excavation (Blasting)	13,552.00	cu.m.	2,962.70	40,150,510.40
16	B.6.1.b Disposal from Tunnel to Temporary Damping Site	16,500.00	cu.m.	217.49	3,588,585.00

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17	B.6.2 Shotcrete 100mm thick @ Inside Tunnel including wiremesh with rockbolt	8,415.00	sq.m.	3,208.74	27,001,547.10
18	B.6.3 Drain holes, 50 mm dia. x 700/900 mm deep with pressure relief holes, supply and installation, provision of PVC perforated pipes and stand pipe	792.00	l.m.	3,093.90	2,450,368.80
19	B.6.4 Contact Grouting, perforated 50mm dia. G.I. pipes and riser pipes	792.00	l.m.	1,183.95	937,688.40
20	B.6.5 Supply and Install W6 x 25 Steel Rib Support	313.00	set	138,201.43	43,257,047.59
21	B.6.6 Drilling and Grouting of M22 x 50mm long Bolt	2,512.00	pcs	42.02	105,554.24
22	B.6.7 Concrete for Floor slab, (35 Mpa), Class 2	992.00	cu.m.	10,666.03	10,580,701.76
23	B.6.8 Concrete Lining (35 MPa), Class 2	2,625.00	cu.m.	10,792.08	28,329,210.00
24	B.6.9 Concrete Lining (21 MPa), Class A	1,849.00	cu.m.	7,967.74	14,732,351.26
25	B.6.10 Concrete Plug (21 MPa), Class A	303.00	cu.m.	7,968.96	2,414,594.88
26	B.6.11 PVC water stop, 0.2 meter width, dumbbell type	1,274.00	l.m.	1,376.93	1,754,208.82
27	B.6.12 Supply, Deliver, Furnish & Install of Reinforcing Steel Bars, Grade 60, various sizes	356,956.00	kgs	64.97	23,191,431.32
	B.7 Intake Tower (Double Barrel RCBC and Tower)				
28	B.7.1 Concrete Structure, (35 Mpa), Class 2	1,622.00	cu.m.	11,012.44	17,862,177.68
29	B.7.2 Concrete Plug, (21 Mpa), Class A	821.00	cu.m.	7,945.11	6,522,935.31
30	B.7.3 Supply, Deliver, Furnish & Install of Reinforcing Steel Bars, Grade 60, various sizes	93,711.00	kgs	64.97	6,088,403.67
31	B.7.4 PVC Waterstop, 0.2 meter width, dumbbell type	299.00	l.m.	1,376.68	411,627.32



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	B. DIVERSION TUNNEL				
	B.7 Intake Tower (Double Barrel RCBC and Tower)				
32	B.7.5 Intake Trash racks complete w/accessories and embedded parts (2.3m W x 3.3m H)	6.00	set	145,379.87	872,279.22
33	B.7.6 Intake Stoplog complete w/accessories and embedded parts (5.85m W x 6.0m H)	3.00	set	2,746,848.83	8,240,546.49
	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. of Hold down Strap	10.00	pcs	11,637.99	116,379.90
37	B.8.3 Supply, Delivery, Installation & Commissioning of Spherical Valve w/ Hydraulic Actuator 2.5mØ	2.00	set	5,145,151.73	10,290,303.46
38	B.8.4 Supply, Delivery and Installation and Commissioning of Fixed Cone Valve 2.00mm Ø, 2.assembly	2.00	set	6,330,335.76	12,660,671.52
39	B.8.5 Supply, Delivery, Installation & Commissioning of Spherical Valve w/ Hydraulic Actuator 2.0mØ	2.00	set	4,936,133.79	9,872,267.58
40	B.8.6 Steel Pipe Expansion Joint 2.0mØ	4.00	set	539,086.80	2,156,347.20
41	B.8.7 Structural Concrete for Thrust Block, (21 Mpa), Class A	390.00	cu.m.	8,950.88	3,490,843.20
42	B.8.8 Structural Concrete for Pipe Supports, (21 MPa), Class A	52.00	cu.m.	9,245.79	480,781.08
43	B.8.9 Supply, Deliver, Furnish and Install of Reinforcing Steel Bars, (Thrust Block & Pipe support), Grade 60	14,699.00	kgs	111.42	1,637,762.58

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44	B.8.10 Lean Concrete (50mm thk for Thrust Block) (13.8 Mpa), Class B	8.00	cu.m.	4,888.75	39,110.00
45	B.9 Valve House and Valve Chamber B.9.1 Concrete Blocks, Walls and Partitions (150mm thk CHB Wall) with plaster both sides	326.00	sq.m.	1,560.94	508,866.44
46	B.9.2 GI Sheet Roofing	285.00	sq.m.	495.29	141,157.65
47	B.9.3 Pre-painted Rib Type Wall Cladding	216.00	sq.m.	2,891.74	624,615.84
	B. DIVERSION TUNNEL				
48	B.9 Valve House and Valve Chamber B.9.4 Supply, Delivery, Assemble and Installation of Structural Steel for Trusses, ASTM A36, for Steel Column, Trusses, Purlins, base plates, bearing plates, stiffeners	25,257.00	kgs	251.57	6,353,903.49
49	B.9.5 Supply, Delivery, Installation & Commissioning of Overhead Travelling Crane (20 Tons Capacity), including Girder	1.00	lot	2,355,916.50	2,355,916.50
50	B.9.6 Doors complete w/ 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	1.00	lot	374,352.30	374,352.30
51	B.9.7 Windows Sound Attenuated Louver Window (3.5m x 2.4m) 10 sets	1.00	lot	356,265.00	356,265.00
52	B.9.8 Structural Concrete, 24.5 Mpa, Class AA	647.00	cu.m.	10,668.58	6,902,571.26
53	B.9.9 Supply, Deliver, Furnish and Install of Reinforcing Steel Bars, Grade 60, various sizes	68,096.00	kgs	75.90	5,168,486.40

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54	B.9.10 Electrical Power and Lighting for Valve House	1.00	L.S.	168,997.50	168,997.50
55	B.10. Handrail (G.I. Pipe 50mm Diameter)	72.00	l.m.	1,283.30	92,397.60
56	B.11 Fabrication, Delivery and Installation of Steel Folding Gate (2sets)	2.00	lot	142,506.00	285,012.00
57	B.12 Structural Steel for Catwalk	10,036.00	kgs	253.91	2,548,240.76
	B.13 Access Road to Valve House				
58	B.13.1 Clearing and Grubbing including disposal (AHD = 1.5km)	17,119.00	sq.m.	180.65	3,092,547.35
59	B.13.2 Common Excavation	116,766.00	cu.m.	160.27	18,714,086.82
60	B.13.3 Overhaul Waste Disposal (AHD = 1.5km)	58,949.00	cu.m.	144.69	8,529,330.81
61	B.13.4 Sub-base Preparation	2,803.00	cu.m.	90.12	252,606.36
62	B.13.5 Sub-base Gravel (150mm thk)	388.00	cu.m.	1,262.26	489,756.88
	B. DIVERSION TUNNEL				
	B.13 Access Road to Valve House				
63	B.13.6 Base Course Gravel (150mm thk)	462.00	cu.m.	1,398.85	646,268.70
64	B.13.7 Line Ditch (21 MPa), Class A	258.00	cu.m.	9,027.65	2,329,133.70
65	B.13.8 Supply, Deliver, Furnish & Install of Reinforcing Steel Bars, for Line Ditch Grade 60, various sizes	11,551.00	kg	66.00	762,366.00
	B.14 Irrigation Intake				
66	B.14.1 Clearing and Grubbing including disposal (AHD = 1.5km)	36.00	sq.m.	21.01	756.36
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
69	B.14.4 Concrete Structure (21 MPa), Class A	6.00	cu.m.	10,823.91	64,943.46



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70	B.14.5 Supply, Deliver, Furnish and Install of Reinforcing Steel Bars, Grade 60, various sizes	320.00	kgs	92.10	29,472.00
71	B.14.6 Supply, Delivery and Installation of RCP with Collar	8.00	l.m.	6,335.12	50,680.96
72	B.14.7 Supply, Delivery and Installation of Main Intake Slide Gate 0.80m x 0.80m x 6 mm thk	1.00	pc	93,907.80	93,907.80
	Sub-Total (B)				460,618,048.42
	C. DAM				
	C.1 Dam Foundation				
73	C.1.1 Clearing and Grubbing including disposal (AHD = 1.5km)	84,884.00	sq.m.	20.79	1,764,738.36
	C.1.2 Excavation and Foundation Preparation				
74	C.1.2.1 Common Excavation	338,052.00	cu.m.	116.09	39,244,456.68
75	C.1.2.2 Rock Excavation	37,561.00	cu.m.	408.04	15,326,390.44
76	C.1.2.3 Overhaul Waste Disposal (AHD = 1.5km)	16,619.50	cu.m.	143.95	2,392,377.03
	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 grouting (primary, secondary tertiary & quarternary holes) and blanket grouting holes	9,152.00	l.m.	3,070.82	28,104,144.64
78	b. Water pressure test prior to curtain grouting	2,080.00	l.m.	1,075.12	2,236,249.60
79	c. Pressure Curtain grouting, assume 0.8 bag per meter with 2 kg./bag of cement	7,322.00	bag	1,098.56	8,043,656.32
80	d. Set-ups (2 inches dia. G.I. Grout Pipe) and concrete pad	1,110.00	l.m.	1,016.87	1,128,725.70

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81	C.1.3.2 Slush grout including removal of unsuitable materials	6,527.00	sq.m.	191.40	1,249,267.80
82	C.1.3.3 Dental Concrete Class C-1	60.00	cu.m.	11,390.33	683,419.80
	Sub-Total of Item (C.1)			-	100,173,426.37
	C.2 Dam Embankment				
83	C.2.1 Diversion & Care of River during Dam Const.	1.00	L.S.	5,418,882.00	5,418,882.00
84	C.2.2 Impervious clay core, Selected common borrow	246,936.52	cu.m.	504.74	124,638,739.10
85	C.2.3 Test fill	1,500.00	cu.m.	453.83	680,745.00
86	C.2.4 Random fill, selected fill	257,146.00	cu.m.	211.62	54,417,236.52
87	C.2.5 Sand filter	107,445.23	cu.m.	1,282.56	137,804,954.19
88	C.2.6 Gravel filter	66,304.77	cu.m.	1,325.31	87,874,374.73
89	C.2.7 Rockfill (From Excavation)	849,351.00	cu.m.	202.57	172,053,032.07
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 side drainage & access foot path, (21 MPa) Class A	443.00	cu.m.	10,707.42	4,743,387.06
	C. DAM				
	C.2 Dam Embankment				
93	C.2.11 Supply, Deliver, Furnish & Install of Reinforcing steel bars, Grade 40, various sizes	17,132.00	kg	104.97	1,798,346.04
94	C.2.12 Access hand rail (G.I. Pipe schedule 40) 50mm dia.	487.00	l.m.	1,240.28	604,016.36
	Sub-Total of Item (C.2)			-	665,446,284.27
	C.3 Dam Crest				
95	C.3.1 Crest Sub-base Course [gravel]	275.00	cu.m	1,365.93	375,630.75
96	C.3.2 Crest Surface Course [gravel]	77.00	cu.m	2,245.39	172,895.03
97	C.3.3 Portland Cement Concrete Pavement, 150mm thk (28 MPa), Class AA	335.00	cu.m	10,648.76	3,567,334.60
98	C.3.4 Metal Guardrail (Flex Beam) including Concrete Post	688.00	l.m.	3,436.25	2,364,140.00



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99	C.3.5 Metal Guardrail (Flex Beam), End piece including Concrete Post, bolt, nut and washer	2.00	set	5,085.15	10,170.30
100	C.3.6 Supply, Installation & Testing of Electrical Works (Perimeter Lighting including lighting Control Panel distribution line, Hot dipped galvanized, pole, lighting, grounding and cables with the dam crest and from dam crest to valve house	1.00	L.S.	4,959,696.00	4,959,696.00
	Sub-Total of Item (C.3)			-	11,449,866.68
101	C.4) Supply, Installation and Testing of Dam and Spillway Instrumentation a. Bench Mark (2 unit) 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. Accelerometer (2 unit) h. Instrumentation Observation Station (1 unit) Sub-Total of Item (C.4) Sub-Total (C)	1.00	L.S.	4,213,671.00	4,213,671.00
	D. SPILLWAY				781,283,248.32
	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 Disposal (AHD = 1.5km)	439,396.00	cu.m.	106.01	46,580,369.96

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106	D.4 Structural Concrete, (35 Mpa), Class 2	18,398.00	cu.m.	11,172.06	205,543,559.88
107	D.5 Structural Concrete, (28 MPa), Class AA	9,780.00	cu.m.	9,772.31	95,573,191.80
108	D.6 Supply, Deliver, Furnish and Install of Reinforcing Steel Bar, Grade 60, various sizes	1,076,950.00	kgs	67.89	73,114,135.50
109	D.7 PVC Water stop 0.2m width with center bulb and Dump bell-type (10mm thk)	3,636.00	l.m.	1,379.83	5,017,061.88
110	D.8 Dowel Bars, 16mm dia. x 1.2 meter long, 0.6 meter wrapped with Denso tape	1,386.00	pc	902.23	1,250,490.78
111	D.9 Supply and Installation of Anchor Bars, 25mmØ X 3.0m (for Rocks)	924.00	pc	2,615.57	2,416,786.68
112	D.10 Supply and Installation of Bituminous Joint Filler	3,637.00	sq.m.	1,576.10	5,732,275.70
113	D.11 Supply and Installation of Geotextiles, unwoven filter	10,481.00	sq.m.	294.03	3,081,728.43
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 / Concrete (Perforated) Pipe	2,669.00	l.m.	2,287.50	6,105,337.50
116	D.14 Supply & Installation of PVC 50 mm dia., 3.4mm thick wall for weephole	710.00	l.m.	525.16	372,863.60
117	D.15 Spillway Bridge D.15.1 Structural Concrete (28 Mpa), Class AA D. SPILLWAY D.15 Spillway Bridge	554.00	cu.m.	9,991.01	5,535,019.54
118	D.15.2 Structural Concrete (21 Mpa), Class A	124.00	cu.m.	8,932.64	1,107,647.36
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 Joint Filler (12mm thk)	4.00	sq.m.	1,195.70	4,782.80
122	D.15.5 Preformed Expansion	10.00	sq.m.	2,061.97	20,619.70

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	Joint Filler (25mm thk)				
123	D.15.6 Joint Sealant	3.00	gal	6,015.61	18,046.83
124	D.15.7 Elastomeric Bearing Pad (250X350X50mm)	24.00	set	3,218.57	77,245.68
125	D.15.8 Expansion Joint	62.00	l.m.	6,441.74	399,387.88
126	D.15.9 Drain Pipe (12.5cm dia. Schedule 40, White PVC), 1900 mm long	12.00	pc	1,995.08	23,940.96
	Sub-Total (D)				679,827,909.87
	Sub-Total (II)				1,922,580,230.48
	TOTAL AMOUNT OF BID				1,941,121,209.17

In this regard, you are requested to submit the following documents within ten (10) calendar days upon receipt hereof to facilitate entering into contract with the National Irrigation Administration in accordance with the terms and conditions of the contract documents:

## 1. Performance Security in any of the following forms;

- Cash or cashier's / manager's check issued by a Universal or Commercial Bank; or - Ten percent (10%) of the total contract price
- Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank; or - Ten percent (10%) of the total contract price
- Surety Bond callable upon demand issued by a surety or insurance company, or - Thirty percent (30%) of the total contract price
- Performance Securing Declaration - Up to issuance of certificate of final acceptance

- Construction Schedule in the form of PERT/CPM, Bar/Gantt Chart and S-Curve;
- Manpower Schedule;
- Construction Methods and Procedures;
- Equipment Utilization Schedule;
- Construction Safety and Health Program approved by the Department of Labor and Employment; and
- Contractor's Environment Management Plan.



Please acknowledge receipt of this award and facilitate compliance on our requirements.

Recommending for approval (BAC-A Members and Administrator):

ENGR. JOSEPHINE B. SALAZAR  
Provisional Member

ENGR. REYNE B. UGAY  
Member

ENGR. EUSEBIO S. VILLAMANTO  
Member

ATTY. RIZZA A. IBÁÑEZ  
Member

MR. ALBINE DAVE V. JUBILADO  
Vice Chairperson

ENGR. ROBERT C. SUGUITAN  
BAC-A, Chairperson  
Senior Deputy Administrator

ENGR. EDUARDO/EDDIE G. GUILLEN  
Head of Procuring Entity  
Acting Administrator

Approved by the NIA Board of Directors:

Board of Director's Resolution No. 8882-23 series 2023 dated OCTOBER 18, 2023

CONFORME:


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

Date: OCT 25 2023

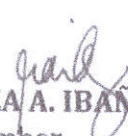
Please acknowledge receipt of this award and facilitate compliance on our requirements.

Recommending for approval (BAC-A Members and Administrator):

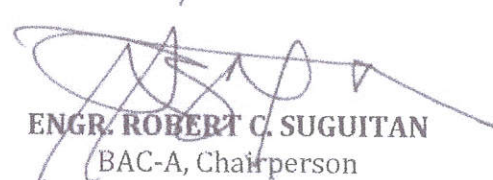
  
**ENGR. JOSEPHINE B. SALAZAR**  
Provisional Member

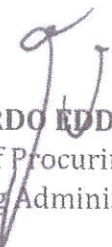
  
**ENGR. REYNE B. UGAY**  
Member

  
**ENGR. EUSEBIO S. VILLAMANTO**  
Member

  
**ATTY. RIZZA A. IBANEZ**  
Member

  
**MR. ALBINO DAVE V. JUBILADO**  
Vice Chairperson


  
**ENGR. ROBERT C. SUGUITAN**  
(BAC-A, Chairperson  
Senior Deputy Administrator

  
**ENGR. EDUARDO EDDIE G. GUILLEN**  
Head of Procuring Entity  
Acting Administrator

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CONFORME:

  
**FERDINAND L. BELTRAN**  
Ferdstar Builders Contractors/ China International  
Water and Electric Corp. (Consortium)

Date: OCT 25 2023