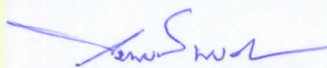
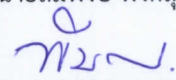
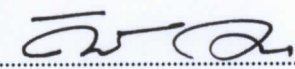
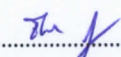


**MAE TUEN WEIR HYDROPOWER PROJECT
CONTRACT C1
CONSTRUCTION OF CIVIL WORKS**

GROUP SCHEDULE OF BID AMOUNT

GROUP No.	GROUP TITLE	TOTAL AMOUNT (BAHT)
1	GENERAL	1,020,000.00
2	WEIR AND ASSOCIATED WORKS	5,303,899.00
3	ACCESS ROAD 2 LINES AND ASSOCIATED WORKS	31,857,446.00
4	HEADRACE AND FOREBAY	175,402,349.00
5	PENSTOCK	10,083,920.00
6	POWER HOUSE AND TAILRACE	11,440,214.00
	Total of Bid Amount Group 1 To 6	235,107,828.00
	VAT 7 %	16,457,547.96
	GRAND TOTAL	251,565,375.96

คณะกรรมการราคากลาง

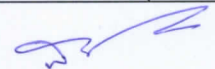

 ประธานกรรมการ
 (นายสมพงษ์ พงศ์สุภาพ)

 กรรมการ
 (นายพีระพงษ์ บุญแสง)

 กรรมการ
 (นายกิตติพร ไข่อั่ว)

 กรรมการ
 (นายธีรศักดิ์ รุ่งแสงจันทร์)

 กรรมการ
 (นายณัฐวัชร ภูมิเกษมศักดิ์)

SCHEDULE OF QUANTITIES, RATES AND PRICES

GROUP 1 : GENERAL

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
S1.15(3)	Section 1 : General Requirement				
	Field offices and permanent housing				
	i) Field office for Employer size 200 sqm	LS	1	640,000.00	640,000.00
	ii) Field office for Engineer size 120 sqm	LS	1	380,000.00	380,000.00
	Sub - total Section 1				1,020,000.00
GRAND TOTAL OF GROUP 1					1,020,000.00



SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 2 : WEIR AND ASSOCIATED WORKS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
S2.06(1)	Section 2 : Water Control and Dewatering Diversion and control of River during construction	LS	1	1,830,000.00	1,830,000.00
S2.06(4)	Dewatering of surface construction	LS	1	480,000.00	480,000.00
	Sub - total Section 2				2,310,000.00
S3.09(2)	Section 3 : Surface Excavation Clearing and Grubbing	sq.m	35	3.00	105.00
S3.09(5)	Roughed clean weir surface				
	i) Remove exiting weir surface	cu.m	35	1,070.00	37,450.00
S3.09(6)	Drilling hole on weir surface	m	430	800.00	344,000.00
	Sub - total Section 3				381,555.00
S4.07(1)	Section 4 : Fill and Backfill Earthfill	cu.m	1,555	620.00	964,100.00
S4.07(2)	Random backfill	cu.m	2,400	130.00	312,000.00
	Sub - total Section 4				1,276,100.00
S7.04(8)	Section 7 : Protection and Support Excavation Anchor bars dia. 12 mm, L = 0.50 m	m.	457	960.00	438,720.00
	Sub - total Section 7				438,720.00
S9.10(3)	Section 9 : Concrete Works Reinforcing bars	kg.	4,230	32.00	135,360.00
S9.10(6)	Structure concrete				
	i) Concrete pavement $f_c' = 210$ ksc.	cu.m	104	5,100.00	530,400.00
S9.10(8)	Miscellaneous concrete				
	i) Mortar grout	cu.m	1	8,400.00	8,400.00
S9.10(11)	Joint fillers and sealer				
	i) Bonding agent	sq.m	290	97.00	28,130.00
	Sub - total Section 9				702,290.00
S12.12(8)	Section 12 : Permanent Equipment and Miscellaneous Works Supply and installation gate and hoist				
	i) Vertical gate size 1.10 x 1.10 m with predestal lift 3.0 tons and gear motor	set	1	78,000.00	78,000.00
	ii) Vertical gate dia. 1.20 m with predestal lift 3.0 tons and gear motor	set	1	85,000.00	85,000.00
	iii) Generator 0.75x2 kW	set	1	9,700.00	9,700.00
S12.12(9)	Miscellaneous metal works				
	i) Steel plate	kg.	64	36.00	2,304.00
	ii) Steel structure	kg.	595	34.00	20,230.00
	Sub - total Section 12				195,234.00
GRAND TOTAL OF GROUP 2					5,303,899.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 3 : ACCESS ROAD 2 LINES AND ASSOCIATED WORKS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 3 : Surface Excavation				
S3.09(2)	Clearing and Grubbing	sq.m	12,514	3.00	37,542.00
S3.09(3)	Stripping	cu.m	1,700	18.00	30,600.00
S3.09(4)	Common Excavation	cu.m	15,580	33.00	514,140.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	1	93.00	93.00
	ii) Sound rock	cu.m	5,260	220.00	1,157,200.00
	Sub - total Section 3				1,739,575.00
	Section 4 : Fill and Backfill				
S4.07(1)	Earthfill	cu.m	4,330	620.00	2,684,600.00
S4.07(2)	Random backfill	cu.m	6,140	46.00	282,440.00
S4.07(3)	Free Draining Backfill				
	i) Compacted coarse sand	cu.m	720	2,000.00	1,440,000.00
	ii) Soil aggregate	cu.m	2,310	1,300.00	3,003,000.00
	iii) Selected material	cu.m	2,530	1,300.00	3,289,000.00
	iv) Laterite compaction	cu.m	930	1,300.00	1,209,000.00
	Sub - total Section 4				11,908,040.00
	Section 5 : Drainage				
S5.10(2)	Side ditch	m.	3,441	380.00	1,307,580.00
S5.10(6)	Drain pipes				
	i) Furnishing and installing RC. Ø 1.20 m.	m.	295	2,800.00	826,000.00
S5.10(7)	Headwall, wingwall, and apron for culverts				
	i) Structure Concrete fc' = 140 ksc.	cu.m	369	7,800.00	2,878,200.00
	ii) Reinforcing bars	kg.	28,450	32.00	910,400.00
	iii) Lean concrete	cu.m	58	4,100.00	237,800.00
	Sub - total Section 5				6,159,980.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 3 : ACCESS ROAD 2 LINES AND ASSOCIATED WORKS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 6 : Road Construction				
S6.13(8)	Guide posts	No.	170	1,200.00	204,000.00
S6.13(10)	Guardrails	m.	120	1,900.00	228,000.00
S6.13(11)	Road signs				
	i) Traffic regulating signs	No.	2	2,700.00	5,400.00
	ii) Traffic warning signs	No.	44	2,100.00	92,400.00
	iii) Destination signs	No.	2	5,400.00	10,800.00
	iv) Distance signs	No.	2	5,400.00	10,800.00
	Sub - total Section 6				551,400.00
	Section 7 : Protection and Support Excavation				
S7.04(1)	Placed riprap	cu.m	190	2,000.00	380,000.00
S7.04(5)	Geotextile	sq.m	614	130.00	79,820.00
S7.04(6)	Sodding	sq.m	3,708	64.00	237,312.00
	Sub - total Section 7				697,132.00
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	45,100	32.00	1,443,200.00
S9.10(6)	Structure concrete				
	i) Concrete $f_c' = 210$ ksc.	cu.m	1,290	6,900.00	8,901,000.00
S9.10(11)	Joint fillers and sealer				
	i) Plastic sheet	sq.m	870	33.00	28,710.00
	ii) Contraction Joint: Dowel bar to be painted and greasee	No	2,900	70.00	203,000.00
	iii) Expansion Joint: Dowel bar to be painted and greasee, with metal cap	No	276	78.00	21,528.00
	iv) Longitudinal Joint: Deformed tie bar	No	3,043	67.00	203,881.00
	Sub - total Section 9				10,801,319.00
GRAND TOTAL OF GROUP 3					31,857,446.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 4 : HEADRACE AND FOREBAY

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
Section 3 : Surface Excavation					
S3.09(2)	Clearing and Grubbing	sq.m	8,760	3.00	26,280.00
S3.09(3)	Stripping	cu.m	9,021	18.00	162,378.00
S3.09(4)	Common Excavation	cu.m	16,780	33.00	553,740.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	1	93.00	93.00
	ii) Sound rock	cu.m	13,300	220.00	2,926,000.00
S3.09(9)	Demolish Existing Structure				
	i) Concrete of diversion pipe	cu.m	1,910	1,070.00	2,043,700.00
	ii) Concrete of Intake	cu.m	10	1,070.00	10,700.00
	iii) Steel	kg.	174,470	5.00	872,350.00
Sub - total Section 3					6,595,241.00
Section 4 : Fill and Backfill					
S4.07(2)	Earthfill	cu.m	18,380	620.00	11,395,600.00
S4.07(3)	Free Draining Backfill				
	i) Compacted coarse sand	cu.m	1,390	2,000.00	2,780,000.00
	ii) Soil aggregate	cu.m	3,850	1,300.00	5,005,000.00
	iii) Selected material	cu.m	4,010	1,300.00	5,213,000.00
	iv) Laterite compaction	cu.m	1,392	1,300.00	1,809,600.00
Sub - total Section 4					26,203,200.00
Section 5 : Drainage					
S5.10(2)	Lined surface drains				
	i) Side ditch	m.	3,465	380.00	1,316,700.00
	ii) Riprap thk. 0.30 m	cu.m	5	2,000.00	10,000.00
Sub - total Section 5					1,326,700.00
Section 9 : Concrete Works					
S9.10(3)	Reinforcing bars	kg.	985,470	32.00	31,535,040.00
S9.10(6)	Structure concrete				
	i) Concrete fc' = 210 ksc.	cu.m	6,750	6,300.00	42,525,000.00
S9.10(8)	Miscellaneous concrete				
	i) Concrete connection at headrace to surge tank	cu.m			
	ii) Lean concrete	cu.m	585	4,100.00	2,398,500.00
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	1,485	520.00	772,200.00
Sub - total Section 9					77,230,740.00
Section 12 : Permanent Equipment and Miscellaneous Works					
S12.12(1)	Permanent equipment				
	i) Supply and installation gate valve dia. 1.00 m	set	2	2,170,000.00	4,340,000.00
	ii) Installation and grouting steel pipe dia. 1.00 m in Intake	set	1	6,150,000.00	6,150,000.00
S12.12(8)	Miscellaneous metal works				
	i) Steel plate	kg.	7,140	84.00	599,760.00
	ii) Steel structure	kg.	1,490	34.00	50,660.00
	iii) Handrail	m.	234	780.00	182,520.00
	iv) Ladder rung	kg.	40	35.00	1,400.00
	v) Embed steel	kg.	379	32.00	12,128.00
Sub - total Section 12					11,336,468.00
Section 13 : Steel Liners and Steel Conduit Pipes					
S13.14(2)	Steel Liners and steel conduit pipes				
	i) Steel liners dia. 1.00 m.	m.	3,460	15,000.00	51,900,000.00
Sub - total Section 13					51,900,000.00
Section 14 : Miscellaneous Works					
S14.06(4)	PVC pipe and component				
	i) PVC pipe dia. 100 mm	m	3,000	270.00	810,000.00
Sub - total Section 14					810,000.00
GRAND TOTAL OF GROUP 4					175,402,349.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 5 : PENSTOCK

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 3 : Surface Excavation				
S3.09(2)	Clearing and Grubbing	sq.m	1,070	3.00	3,210.00
S3.09(3)	Stripping	cu.m	190	18.00	3,420.00
S3.09(4)	Common Excavation	cu.m	115	33.00	3,795.00
	i) Common excavation by machine	cu.m	115	33.00	3,795.00
	ii) Common excavation by labor	cu.m	54	160.00	8,640.00
	Rock Excavation				
S3.09(5)	i) Weathered rock	cu.m	1	93.00	93.00
	ii) Sound rock	cu.m	241	220.00	53,020.00
	Sub - total Section 3				75,973.00
	Section 4 : Fill and Backfill				
S4.07(2)	Earthfill	cu.m	65	59.00	3,835.00
	Sub - total Section 4				3,835.00
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	7,160	32.00	229,120.00
S9.10(6)	Structure concrete				
	i) Concrete fc' = 210 ksc.	cu.m	786	6,000.00	4,716,000.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	16	4,100.00	65,600.00
	ii) Concrete lining	cu.m	31	5,000.00	155,000.00
	iii) Asbestos sheet thk. 12 mm	sq.m	2	210.00	420.00
	Sub - total Section 9				5,166,140.00
	Section 12 : Permanent Equipment and Miscellaneous Works				
S12.12(1)	Permanent equipment				
	i) Supply and installation gate valve dia. 0.90 m	set	1	1,710,000.00	1,710,000.00
	ii) Air release valve dia.200 mm	set	1	56,000.00	56,000.00
S12.12(8)	Miscellaneous metal works				
	i) Ring girder	kg.	372	51.00	18,972.00
	Sub - total Section 12				1,784,972.00
	Section 13 : Steel Liners and Steel Conduit Pipes				
S13.14(2)	Steel Liners and steel conduit pipes				
	i) Steel liners dia.0.90 m.	m.	140	19,000.00	2,660,000.00
	ii) Steel liners dia.0.60 m.	m.	18	12,000.00	216,000.00
	iii) Wye branch dia.0.90 m to dia.2-0.60 m	set	1	110,000.00	110,000.00
	iv) Pipe bend dia. 0.60 m	set	1	11,000.00	11,000.00
	v) Expansion joint dia.0.90 m	set	2	28,000.00	56,000.00
	Sub - total Section 13				3,053,000.00
GRAND TOTAL OF GROUP 5					10,083,920.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 6 : POWERHOUSE AND TAILRACE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 3 : Surface Excavation				
S3.09(2)	Clearing and Grubbing	sq.m	440	3.00	1,320.00
S3.09(4)	Common Excavation	cu.m	580	33.00	19,140.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	1	93.00	93.00
	ii) Sound rock	cu.m	545	220.00	119,900.00
S3.09(9)	Demolish Existing Structure				
	i) Concrete	cu.m	66	1,070.00	70,620.00
	Sub - total Section 3				211,073.00
	Section 4 : Fill and Backfill				
S4.07(1)	Earth fill	cu.m	450	59.00	26,550.00
	Sub - total Section 4				26,550.00
	Section 5 : Drainage				
S5.10(2)	Lined surface drains				
	i) Gutter drain	m.	65	4,100.00	266,500.00
	Sub - total Section 5				266,500.00
	Section 7 : Protection and Support Excavation				
S7.04(1)	Placed riprap	cu.m	150	2,000.00	300,000.00
S7.04(2)	Bedding	cu.m	75	2,800.00	210,000.00
S7.04(6)	Sodding	sq.m	40	64.00	2,560.00
	Sub - total Section 7				512,560.00
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	75,780	32.00	2,424,960.00
S9.10(6)	Structure concrete				
	i) Concrete $f_c' = 210$ ksc.	cu.m	606	6,900.00	4,181,400.00
S9.10(8)	Miscellaneous concrete				
	i) Secondary concrete $f_c' = 210$ ksc.	cu.m	5	20,000.00	100,000.00
	ii) Lean concrete	cu.m	4	4,100.00	16,400.00
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	21	520.00	10,920.00
S9.10(11)	Joint fillers and sealer				
	i) Elastic filler	sq.m	1	370.00	370.00
	ii) Joint sealant	sq.m	2	75.00	150.00
	Sub - total Section 9				6,734,050.00
Amount Carried Forward					7,750,733.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 6 : POWERHOUSE AND TAILRACE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
Amount Brought Forward					7,750,733.00
Section 11 : Building Construction					
S11.14(2)	Brick walls				
	i) Wall 1-Plastering w/plant	sq.m	1,416	430.00	608,880.00
	ii) Wall 2-8"x8" Non slip ceramic tiles	sq.m	31	430.00	13,330.00
S11.14(3)	Cement plastering brick walls	sq.m	2,832	97.00	274,704.00
S11.14(4)	Doors and windows				
	i) D2-Glass door 1.80 x 2.00 m	set	2	13,000.00	26,000.00
	ii) D3-Steel door 1.80 x 2.00 m	set	1	7,100.00	7,100.00
	iii) D4-Glass door 0.90 x 2.00 m	set	1	7,200.00	7,200.00
	iv) D5-Steel door 0.90 x 2.00 m	set	2	3,800.00	7,600.00
	v) D6-PVC door 0.80 x 2.00 m	set	1	2,200.00	2,200.00
	vi) W1-Opening window 3.40 x 1.10 m	set	10	14,000.00	140,000.00
	vii) W2-Sliding window 1.70 x 1.10 m	set	1	20,000.00	20,000.00
	viii) W3 Fixed glass window 3.40 x 1.50 m	set	8	5,300.00	42,400.00
	ix) W4 Louver window 1.70 x 1.65 m	set	2	14,000.00	28,000.00
	x) W5-Opening window 1.20 x 0.50 m	set	3	3,200.00	9,600.00
S11.14(5)	Furnishing and Installing Steel Rolling Shutter Doors				
	i) D1-Steel roller shutter door size 4.35x6.00 m.	LS	1	57,000.00	57,000.00
S11.14(7)	Floor finishes				
	i) Floor 1-Coarse finished	sq.m	14	160.00	2,240.00
	ii) Floor 2-Coarse finished w/waterproof	sq.m	300	240.00	72,000.00
	iii) Floor 3-8"x8" Non slip ceramic floor tiles	sq.m	8	370.00	2,960.00
	iv) Floor 4-8"x8" Ceramic floor tiles	sq.m	97	370.00	35,890.00
	v) Floor 5-Acid proof epoxy	sq.m	177	510.00	90,270.00
S11.14(8)	Wall finished				
	i) Wall 1-Plastering w/plant	sq.m	1,416	97.00	137,352.00
	ii) Wall 2-8"x8" Non slip ceramic tiles	sq.m	31	380.00	11,780.00
	iii) Wall 3-Glass w/aluminium frame	sq.m	25	7,500.00	187,500.00
S11.14(8)	Ceiling works				
	i) Plastering w/plant	sq.m	107	65.00	6,955.00
	ii) Gypsum board with T-bar stud 0.60 x 0.60 m, 9.0 mm thk.	sq.m	8	420.00	3,360.00
S11.14(11)	Signboard	L.S.	1	19,000.00	19,000.00
S11.14(12)	Flag pole	L.S.	1	43,000.00	43,000.00
S11.14(13)	Guard shed	L.S.	1	36,000.00	36,000.00
S11.14(14)	Water supply and sanitary services	L.S.	1	16,000.00	16,000.00
S11.14(15)	Seepage tank	L.S.	1	20,000.00	20,000.00
S11.14(16)	Chain link fence	m.	110	2,500.00	275,000.00
S11.14(17)	Lightning protection system	L.S.	1	3,200.00	3,200.00
S11.14(19)	Roof drain	m.	135	280.00	37,800.00
Sub - total Section 11					2,244,321.00
Section 12 : Permanent Equipment and Miscellaneous Works					
S12.10(8)	Miscellaneous metal works				
	i) Galvanize steel Handrail	m.	14	1,100.00	15,400.00
	ii) Steel grating	kg.	1,420	47.00	66,740.00
	iii) Cable trench type A	m.	40	2,500.00	100,000.00
	iv) Embedded steel	kg.	5,600	32.00	179,200.00
Sub - total Section 12					361,340.00
Section 15 : Illumination Equipment					
S15.05(1)	Indoor illumination equipment	L.S.	1	381,300.00	381,300.00
S15.05(2)	Outdoor illumination equipment and main low power cable				
	i) Outdoor illumination equipment	L.S.	1	158,100.00	158,100.00
	ii) Main low power cable in powerhouse	L.S.	1	481,700.00	481,700.00
S15.05(3)	Air condition 36,000 BTU	set	1	51,000.00	51,000.00
S15.05(4)	Ventilator 12"	set	1	6,720.00	6,720.00
S15.05(5)	Miscellaneous equipments	L.S.	1	5,000.00	5,000.00
Sub - total Section 15					1,083,820.00
GRAND TOTAL OF GROUP 6					11,440,214.00