

MAE HAT HYDROPOWER PROJECT

GROUP No.	GROUP TITLE	TOTAL AMOUNT (BAHT)
	CONTRACT C1 CIVIL WORK	
1	GENERAL	8,679,303.47
2	WEIR IMPROVEMENT AND INTAKE STRUCTURE	6,066,429.97
3	HEADRACE AND O&M ROAD 1	99,463,367.99
4	O&M ROAD AND ACCESS ROAD	37,711,918.82
5	SURGE TANK	10,805,553.55
6	PENSTOCK	24,133,932.54
7	POWERHOUSE	28,203,731.35
8	TAILRACE	2,485,137.17
	BID AMOUNT GROUP 1 TO 8	217,549,374.86
	VAT 7 %	15,228,456.24
	TOTAL OF BID AMOUNT GROUP 1 TO 8	232,777,831.10
	SUM CONTRACT C1	232,777,831.10
	CONTRACT C2 E&M	
1	TOTAL PRICE OF EQUIPMENT	64,690,700.00
2	TOTAL PRICE OF SPARE PARTS	3,890,000.00
3	TOTAL PRICE OF MAINTENANCE TOOLS AND INSTRUMENTS*	2,524,000.00
4	PRICE OF FACTORY TESTS	1,500,000.00
5	PRICE OF ERECTION	3,800,000.00
6	PRICE OF FIELD PERFORMANCE TESTS	1,750,000.00
	TOTAL	78,154,700.00
	VAT 7 %	5,470,829.00
	SUM CONTRACT C2	83,625,529.00
	TOTAL C1 AND C2	316,403,360.10



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**MAE HAT HYDROPOWER PROJECT
CONTRACT C1
CONSTRUCTION OF CIVIL WORKS**

GROUP SCHEDULE OF BID AMOUNT

GROUP No.	GROUP TITLE	TOTAL AMOUNT (BAHT)
1	GENERAL	8,679,303.47
2	WEIR IMPROVEMENT AND INTAKE STRUCTURE	6,066,429.97
3	HEADRACE AND O&M ROAD 1	99,463,367.99
4	O&M ROAD AND ACCESS ROAD	37,711,918.82
5	SURGE TANK	10,805,553.55
6	PENSTOCK	24,133,932.54
7	POWERHOUSE	28,203,731.35
8	TAILRACE	2,485,137.17
	BID AMOUNT GROUP 1 TO 8	217,549,374.86
	TOTAL OF BID AMOUNT GROUP 1 TO 8	217,549,374.86
GRAND TOTAL		217,549,374.86







**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 1 : GENERAL**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
1	GENERAL	8,679,303.47
TOTAL OF BID AMOUNT GROUP 1		8,679,303.47



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SCHEDULE OF QUANTITIES, RATES AND PRICES

GROUP 1 : GENERAL

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
				BATH	BATH
S1.15(3)	Section 1 : General Requirement				
	Field offices and permanent housing				
	i) Field office for Employer&Engineer according standard plan	LS	1	1,947,283.61	1,947,283.61
	- Solar Rooftop 10 kW	LS	1	568,431.89	568,431.89
	ii) Yard Area	LS	1	770,844.19	770,844.19
	iii) Temporary Fence	m.	365	2,800.22	1,022,080.30
	iv) งานระบบไฟฟ้าสาธารณะสำหรับชุมชนรอบโรงไฟฟ้า				
	- ติดตั้งหม้อแปลง 50 kVA 3 เฟส พร้อมชุดฟิวส์และอุปกรณ์ประกอบ รวมติดตั้ง	set	1	123,013.00	123,013.00
	- ติดตั้งหม้อแปลง 30 kVA 1 เฟส พร้อมชุดฟิวส์และอุปกรณ์ประกอบ รวมติดตั้ง	set	1	83,872.50	83,872.50
	- ตู้ควบคุมไฟฟ้าแสงสว่างอัตโนมัติ พร้อมอุปกรณ์ประกอบ และติดตั้ง	set	3	13,419.60	40,258.80
	- โคมไฟถนน LED ขนาด 50W พร้อมติดตั้งการพริกฟิวส์กันฝน, กิ่งโคมชุบกัลวาไนซ์	set	251	3,354.90	842,079.90
	ขาจับกิ่งโคมแบบปรับได้ชุบกัลวาไนซ์ สายไฟฟ้าท่อเข้าโคม และอุปกรณ์ประกอบครบชุด				
	พร้อมติดตั้ง				
	- เสายไฟฟ้า ล.อ.ร. 8 เมตร พร้อมอุปกรณ์ประกอบครบชุด พร้อมติดตั้ง	set	40	2,220.94	88,837.60
	- สาย THW-A 70 sq.mm. พร้อมอุปกรณ์ประกอบครบชุด พร้อมติดตั้ง	m.	14,700	55.92	822,024.00
	- แรค พร้อมลูกถ้วย 4 ชุด และอุปกรณ์ประกอบครบชุด พร้อมติดตั้ง	set	62	559.15	34,667.30
	- แรค พร้อมลูกถ้วย 2 ชุด และอุปกรณ์ประกอบครบชุด พร้อมติดตั้ง	set	328	290.76	95,369.28
	v) งานระบบประปาสาธารณะสำหรับชุมชนรอบโรงไฟฟ้า	m.	3,380	320.95	1,084,811.00
	vi) Elevated Tank	LS	1	413,771.00	413,771.00
	- Water Filter System	LS	1	27,957.50	27,957.50
	vii) Entrance Gate with Name Board	set	2	63,234.27	126,468.54
	viii) Garage	LS	1	223,660.00	223,660.00
	ix) Guard House	LS	1	186,756.10	186,756.10
	x) Easy Pass	LS	1	33,549.00	33,549.00
	xi) Wiremess Fence	m.	11	3,756.11	41,317.21
	xii) Permanent Fence	m.	245	417.35	102,250.75
	Sub - total Section 1				8,679,303.47
GRAND TOTAL OF GROUP 1					8,679,303.47

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**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 2 : WEIR IMPROVEMENT AND INTAKE STRUCTURE**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
2	WATER CONTROL AND DEWATERING	3,587,745.00
3	SURFACE EXCAVATION	338,596.60
4	FILL AND BACKFILL	56,008.48
7	PROTECTION AND SUPPORT EXCAVATION	61,678.68
9	CONCRTE WORKS	1,593,559.75
12	PERMANENT EQUIPMENT AND MISCELLANEOUS METAL WORKS	428,841.46
TOTAL OF BID AMOUNT GROUP 2		6,066,429.97







SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 2 : WEIR IMPROVEMENT AND INTAKE STRUCTURE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BAHT
S2.06(1) S2.06(4)	Section 2 : Water Control and Dewatering Diversion and control of River during construction Dewatering of surface construction	LS LS	1 1	534,345.00 3,053,400.00	534,345.00 3,053,400.00
	Sub - total Section 2				3,587,745.00
S3.09(2) S3.09(3) S3.09(4) S3.09(5) S3.09(6) S3.09(9)	Section 3 : Surface Excavation Clearing and Grubbing Stripping Common Excavation Rock Excavation i) Weathered rock ii) Sound rock Drilling hole for drainage Demolish Existing Structure i) Remove exiting weir surface ii) Headwall	sq.m cu.m cu.m cu.m cu.m cu.m m cu.m cu.m	128 35 737 211 105 113 4 142	2.99 21.17 37.30 135.22 277.65 1,317.32 708.50 708.50	382.72 740.95 27,490.10 28,531.42 29,153.25 148,857.16 2,834.00 100,607.00
	Sub - total Section 3				338,596.60
S4.07(1)	Section 4 : Fill and Backfill Compacted backfill and fill	cu.m	526	106.48	56,008.48
	Sub - total Section 4				56,008.48
S7.04(8)	Section 7 : Protection and Support Excavation Anchor bar dia. 12 mm, L = 0.50 m	set	101	610.68	61,678.68
	Sub - total Section 7				61,678.68
S9.10(3) S9.10(6) S9.10(8) S9.10(9) S9.10(11)	Section 9 : Concrete Works Reinforcing bars Structure concrete i) Concrete fc' = 210 ksc. ii) Non-Shrink Mortar grout Miscellaneous concrete i) Lean concrete ii) Concrete filled fc' = 140 ksc. Waterstops i) PVC waterstop type A Joint fillers and sealer i) Sealing compound	kg. cu.m cum cum cum m. sq.m	25,724 177 0.1 11 18 9 56	33.81 3,624.82 7,818.89 2,251.58 2,731.61 523.44 50.16	869,728.44 641,593.14 781.89 24,767.38 49,168.98 4,710.96 2,808.96
	Sub - total Section 9				1,593,559.75
S12.12(8) S12.12(9)	Section 12 : Permanent Equipment and Miscellaneous Works Supply and installation vertical gates i) Sand Sluice gate size 1.50 x 1.50 m w/predestal lift 6.5 tons ii) Vertical gate dia. 1.20 m with predestal lift 1.75 tons Miscellaneous metal works i) Supply and installation Steel structure ii) Supply and installation handrail	set set kg. m.	1 1 1,777 40	174,480.00 119,955.00 40.78 1,548.51	174,480.00 119,955.00 72,466.06 61,940.40
	Sub - total Section 12				428,841.46
GRAND TOTAL OF GROUP 2					6,066,429.97

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**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 3 : HEADRACE AND O&M ROAD 1**

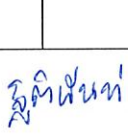
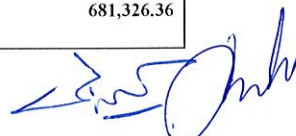
SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
3	SURFACE EXCAVATION	3,010,021.46
4	FILL AND BACKFILL	3,369,370.72
7	PROTECTION AND SUPPORT EXCAVATION	863,958.41
9	CONCRTE TE WORKS	36,693,904.54
12	PERMANENT EQUIPMENT AND MISCELLANEOUS METAL WORKS	681,326.36
13	STEEL LINERS AND STEEL CONDUIT PIPES	54,844,786.50
TOTAL OF BID AMOUNT GROUP 3		99,463,367.99

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SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 3 : HEADRACE AND O&M ROAD 1

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BATH
Section 3 : Surface Excavation					
S3.09(2)	Clearing and Grubbing	sq.m	2,081	2.97	6,180.57
S3.09(3)	Stripping	cu.m	624	21.01	13,110.24
S3.09(4)	Common Excavation	cu.m	34,093	37.02	1,262,122.86
S3.09(9)	Demolished Existing Structure i) Remove Existing Headrace	cu.m.	2,246	703.24	1,579,477.04
<i>Drain Culvert STA.0+413.534, STA.0+515.748, STA.0+651.663, STA.0+948.448, STA.1+320.961, STA.1+508.437, STA.1+903.095, STA.1+944.718</i>					
S3.09(2)	Clearing and Grubbing	sq.m	1,748	2.99	5,226.52
S3.09(3)	Stripping	cu.m	525	21.17	11,114.25
S3.09(4)	Common Excavation	cu.m	2,603	37.30	97,091.90
S3.09(5)	Rock Excavation i) Weathered rock	cu.m	264	135.22	35,698.08
Sub - total Section 3					3,010,021.46
Section 4 : Fill and Backfill					
S4.07(1)	Compacted backfill and fill	cu.m	23,162	105.69	2,447,991.78
S4.07(3)	Compacted coarse sand	cu.m	830	834.53	692,659.90
<i>Drain Culvert STA.0+413.534, STA.0+515.748, STA.0+651.663, STA.0+948.448, STA.1+320.961, STA.1+508.437, STA.1+903.095, STA.1+944.718</i>					
S4.07(1)	Compacted backfill and fill	cu.m	2,148	106.48	228,719.04
Sub - total Section 4					3,369,370.72
Section 7 : Protection and Support Excavation					
<i>Drain Culvert STA.0+413.534, STA.0+515.748, STA.0+651.663, STA.0+948.448, STA.1+320.961, STA.1+508.437, STA.1+903.095, STA.1+944.718</i>					
S7.04(1)	Riprap	cu.m	111	1,169.67	129,833.37
S7.04(1)	Mattress 6.00x2.00x0.30 m.	set	88	8,342.33	734,125.04
Sub - total Section 7					863,958.41
Section 9 : Concrete Works					
S9.10(3)	Reinforcing bars	kg.	332,270	33.55	11,147,658.50
S9.10(6)	Structure concrete				
	i) Concrete fc' = 280 ksc.	cu.m	1,258	3,348.95	4,212,979.10
	ii) Concrete fc' = 210 ksc.	cu.m	5,220	3,597.90	18,781,038.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	349	2,234.86	779,966.14
S9.10(11)	Joint fillers and sealer				
	i) Elastic filler	sq.m	53	373.43	19,791.79
	ii) Joint sealer	m	728	74.69	54,374.32
	iii) Plastic Sheet	sq.m	874	31.39	27,434.86
<i>Drain Culvert STA.0+413.534, STA.0+515.748, STA.0+651.663, STA.0+948.448, STA.1+320.961, STA.1+508.437, STA.1+903.095, STA.1+944.718</i>					
S9.10(3)	Reinforcing bars	kg.	23,574	33.55	790,907.70
S9.10(6)	Structure concrete				
	ii) Concrete fc' = 210 ksc.	cu.m	210	3,597.90	755,559.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	28	2,234.86	62,576.08
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	91	519.55	47,279.05
S9.10(11)	Joint fillers and sealer				
	i) Elastic filler	sq.m	24	373.43	8,962.32
	ii) Joint sealer	m	72	74.69	5,377.68
Sub - total Section 9					36,693,904.54
Section 12 : Permanent Equipment and Miscellaneous Works					
S12.12(9)	Miscellaneous metal works - Ring girder	kg.	13,684	49.79	681,326.36
Sub - total Section 12					681,326.36

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 3 : HEADRACE AND O&M ROAD 1

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BATH
S13.14(2)	Section 13 : Steel Liners and Steel Conduit Pipes Steel Liners and steel conduit pipes i) Steel liners dia. 1.20 m. 11.10 mm. Thk.	m.	2,203	24,895.50	54,844,786.50
	Sub - total Section 13				54,844,786.50
GRAND TOTAL OF GROUP 4					99,463,367.99



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**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 4 : O&M ROAD AND ACCESS ROAD**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
3	SURFACE EXCAVATION	318,594.12
4	FILL AND BACKFILL	4,724,942.01
6	ROAD CONSTRUCTION	17,128,968.00
9	CONCRETE WORKS	15,539,414.69
TOTAL OF BID AMOUNT GROUP 4		37,711,918.82



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SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 4 : O&M ROAD AND ACCESS ROAD

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
				BATH	BATH
Section 3 : Surface Excavation					
Access Road					
S3.09(4)	Common Excavation	cu.m	1,308	37.02	48,422.16
S3.09(4)	Common Excavation	cu.m	7,160	37.02	265,063.20
S3.09(4)	Common Excavation	cu.m	138	37.02	5,108.76
Sub - total Section 3					318,594.12
Section 4 : Fill and Backfill					
Access Road					
S4.07(1)	Compacted backfill and fill	cu.m	12,040	105.69	1,272,507.60
S4.07(3)	Compacted coarse sand	cu.m	701	1,162.50	814,912.50
O&M Road 2					
S4.07(1)	Compacted backfill and fill	cu.m	2,486	105.69	262,745.34
S4.07(3)	Compacted coarse sand	cu.m	1,952	1,162.50	2,269,200.00
O&M Road 3					
S4.07(1)	Compacted backfill and fill	cu.m	53	105.69	5,601.57
S4.07(3)	Compacted coarse sand	cu.m	86	1,162.50	99,975.00
Sub - total Section 4					4,724,942.01
Section 6 : Fill and Backfill					
Access Road					
S6.13(4)	Compacted Laterite	cu.m	26,336	594.24	15,649,904.64
O&M Road 2					
S6.13(4)	Compacted Laterite	cu.m	2,421	594.24	1,438,655.04
O&M Road 3					
S6.13(4)	Compacted Laterite	cu.m	68	594.24	40,408.32
Sub - total Section 6					17,128,968.00
Section 9 : Concrete Works					
Access Road					
S9.10(3)	Reinforcing bars	kg.	21,718	33.55	728,638.90
S9.10(6)	Structure concrete	cu.m	903	3,348.95	3,024,101.85
i) Concrete fc' = 280 ksc.					
S9.10(11)	Joint for access roads				
i) Mastic Joint Sealer		m	574	311.73	178,933.02
ii) Plastic sheet		sq.m	689	31.39	21,627.71
iii) Elastic filler		sq.m	11	373.43	4,107.73
O&M Road 2					
S9.10(3)	Reinforcing bars	kg.	61,218	33.55	2,053,863.90
S9.10(6)	Structure concrete	cu.m	2,543	3,348.95	8,516,379.85
i) Concrete fc' = 280 ksc.					
S9.10(11)	Joint for access roads				
i) Mastic Joint Sealer		m	1,470	311.73	458,243.10
ii) Plastic sheet		sq.m	1,764	31.39	55,371.96
iii) Elastic filler		sq.m	26	373.43	9,709.18
O&M Road 3					
S9.10(3)	Reinforcing bars	kg.	2,770	33.55	92,933.50
S9.10(6)	Structure concrete	cu.m	111.00	3,348.95	371,733.45
i) Concrete fc' = 280 ksc.					
S9.10(11)	Joint for access roads				
i) Mastic Joint Sealer		m	67	311.73	20,885.91
ii) Plastic sheet		sq.m	80	31.39	2,511.20
iii) Elastic filler		sq.m	1	373.43	373.43
Sub - total Section 9					15,539,414.69
GRAND TOTAL OF GROUP 4					37,711,918.82





**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 5 : SURGE TANK**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
3	SURFACE EXCAVATION	115,436.28
4	FILL AND BACKFILL	247,353.04
7	PROTECTION AND SUPPORT EXCAVATION	213,942.68
9	CONCRTEE WORKS	2,849,624.62
12	PERMANENT EQUIPMENT AND MISCELLANEOUS METAL WORKS	5,718,160.68
13	STEEL LINERS AND STEEL CONDUIT PIPES	1,658,386.29
14	MISCELLANEOUS WORKS	2,649.96
TOTAL OF BID AMOUNT GROUP 5		10,805,553.55





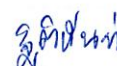
SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 5 : SURGE TANK

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BATH
S3.09(2)	Section 3 : Surface Excavation				
	Clearing and Grubbing	sq.m	58	2.99	173.42
S3.09(3)	Stripping	cu.m	18	21.17	381.06
S3.09(4)	Common Excavation	cu.m	2,871	37.30	107,088.30
S3.09(9)	Demolish Existing Structure				
	i) Existing Forebay	cu.m	11	708.50	7,793.50
	Sub - total Section 3				115,436.28
S4.07(1)	Section 4 : Fill and Backfill				
	Compacted backfill and fill	cu.m	2,323	106.48	247,353.04
	Sub - total Section 4				247,353.04
S7.04(1)	Section 7 : Protection and Support Excavation				
	Riprap	cu.m	26	1,169.67	30,411.42
S7.04(4)	6.00x2.00x0.30 Mattress	set	22	8,342.33	183,531.26
	Sub - total Section 7				213,942.68
S9.10(3)	Section 9 : Concrete Works				
	Reinforcing bars	kg.	21,138	33.81	714,675.78
S9.10(6)	Structure concrete				
	i) Concrete $f_c' = 210$ ksc.	cu.m	447	3,624.82	1,620,294.54
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	5	2,251.58	11,257.90
	ii) Plain Concrete With 0.30 (min.) Dump Rock	cu.m	145	3,402.36	493,342.20
S9.10(11)	Joint fillers and sealer				
	i) Mastic Joint Sealer	m	30	314.06	9,421.80
	ii) Plastic sheet	sq.m	20	31.62	632.40
	Sub - total Section 9				2,849,624.62
S12.12(9)	Section 12 : Permanent Equipment and Miscellaneous Works				
	Miscellaneous metal works				
	i) Ring Girder Stiffener & Side Column	kg.	20,456	50.16	1,026,072.96
	ii) Surge Tank Cover Plate	kg.	2,612	45.26	118,219.12
	iii) Steel Tank 18 mm. THK.	kg.	40,716	41.44	1,687,271.04
	iv) Ladder Rungs	kg.	1,388	32.72	45,415.36
	v) Cover Plate for Penstock Valve Chamber	kg.	318	45.26	14,392.68
	vi) Cover Plate for Sediment Valve Chamber	kg.	77	45.26	3,485.02
	vii) Gate Valve Ø 1.10 m. (Emergency valve chamber)	set	1	2,774,232.00	2,774,232.00
	viii) Gate Valve Ø 0.30 m. (Sediment valve chamber)	set	1	49,072.50	49,072.50
	Sub - total Section 12				5,718,160.68
S13.14(2)	Section 13 : Steel Liners and Steel Conduit Pipes				
	Steel Liners and steel conduit pipes				
	i) Steel liners dia. 1.20 m. 11.1 mm. THK.	m.	4	25,081.80	100,327.20
	ii) Steel liners dia. 1.10 m. 11.1 mm. THK.	m.	8	22,782.81	182,262.48
	iii) Steel Pipe dia. 0.30 m.	m.	387	3,555.03	1,375,796.61
	Sub - total Section 13				1,658,386.29
S14.06(5)	Section 14 : Miscellaneous Works				
	PVC pipe and component dia. 100 mm.	m.	9	294.44	2,649.96
	Sub - total Section 14				2,649.96
GRAND TOTAL OF GROUP 5					10,805,553.55

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**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 6 : PENSTOCK**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
3	SURFACE EXCAVATION	1,002,268.91
4	FILL AND BACKFILL	189,853.84
9	CONCRTE WORKS	11,711,561.19
12	PERMANENT EQUIPMENT AND MISCELLANEOUS METAL WORKS	1,825,874.16
13	STEEL LINERS AND STEEL CONDUIT PIPES	9,404,374.44
TOTAL OF BID AMOUNT GROUP 6		24,133,932.54


SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 6 : PENSTOCK

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BATH
S3.09(2)	Section 3 : Surface Excavation Clearing and Grubbing	sq.m	3,763	2.99	11,251.37
S3.09(3)	Stripping	cu.m	1,129	21.17	23,900.93
S3.09(4)	Common Excavation	cu.m	5,244	37.30	195,601.20
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	1,048	135.22	141,710.56
	ii) Sound rock	cu.m	699	277.65	194,077.35
S3.09(9)	Demolish Existing Structure				
	i) Existing Thrust Block	cu.m	199	708.50	140,991.50
	ii) Remove Existing Penstock	cu.m	416	708.50	294,736.00
	Sub - total Section 3				1,002,268.91
S4.07(1)	Section 4 : Fill and Backfill Compacted backfill and fill	cu.m	1,783	106.48	189,853.84
	Sub - total Section 4				189,853.84
S9.10(3)	Section 9 : Concrete Works Reinforcing bars	kg.	60,149	33.81	2,033,637.69
S9.10(6)	Structure concrete				
	i) Concrete $f_c' = 210$ ksc.	cu.m	2,576	3,624.82	9,337,536.32
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	59	2,251.58	132,843.22
	ii) Plain Concrete With 0.30 (min.) Dump Rock	cu.m	61	3,402.36	207,543.96
	Sub - total Section 9				11,711,561.19
S12.12(9)	Section 12 : Permanent Equipment and Miscellaneous Works Miscellaneous metal works				
	i) Ring Girder	kg.	30,408	50.16	1,525,265.28
	ii) Wye (Ring and Beam)	kg.	5,993	50.16	300,608.88
	Sub - total Section 12				1,825,874.16
S13.14(2)	Section 13 : Steel Liners and Steel Conduit Pipes Steel Liners and steel conduit pipes				
	i) Steel liners dia. 1.10 m.	m.	404	22,782.81	9,204,255.24
	ii) Steel liners dia. 0.55 m.	m.	30	6,670.64	200,119.20
	Sub - total Section 13				9,404,374.44
GRAND TOTAL OF GROUP 6					24,133,932.54





**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 7: POWERHOUSE**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
3	SURFACE EXCAVATION	712,938.22
4	FILL AND BACKFILL	558,487.60
5	DRAINAGE	216,464.50
7	PROTECTION AND SUPPORT EXCAVATION	733,171.43
9	CONCRTE WORKS	6,697,376.10
11	BUILDING CONSTRUCTION	2,955,514.32
12	PERMANENT EQUIPMENT AND MISCELLANEOUS METAL WORKS	312,319.60
15	ILLUMINATION EQUIPMENT	1,092,376.26
16	22 KV TRANSMISSION LINE AND LOW TENSION CABLE	14,925,083.32
TOTAL OF BID AMOUNT GROUP 7		28,203,731.35





SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 7 : POWERHOUSE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
				BATH	BATH
	Section 3 : Surface Excavation				
S3.09(2)	Clearing and Grubbing	sq.m	377	2.99	1,127.23
S3.09(3)	Stripping	cu.m	113	21.17	2,392.21
S3.09(4)	Common Excavation	cu.m	3,581	37.30	133,571.30
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	1,534	135.22	207,427.48
S3.09(9)	Demolish Existing Structure				
	i) Existing Power House	cu.m	308	708.50	218,218.00
	ii) Existing Retaining Wall	cu.m	128	708.50	90,688.00
	iii) Existing Drain	cu.m	84	708.50	59,514.00
	Sub - total Section 3				712,938.22
	Section 4 : Fill and Backfill				
S4.07(1)	Compacted backfill and fill	cu.m	5,245	106.48	558,487.60
	Sub - total Section 4				558,487.60
	Section 5 : Drainage				
S5.10(6)	Drain pipes				
	i) Furnishing and installing RC. Ø 0.60 m.	m.	50	1,123.22	56,161.00
	ii) MH for Ø 0.60 Drain Culvert	unit	4	9,269.25	37,077.00
	iii) Gutter drain	m.	226	545.25	123,226.50
	Sub - total Section 5				216,464.50
	Section 7 : Protection and Support Excavation				
S7.04(1)	Mattress - 6.00x2.00x0.30 m	set	63	8,342.33	525,566.79
S7.04(1)	Riprap	cu.m	44	1,169.67	51,465.48
S7.04(1)	Geotextile	sq.m.	274	130.86	35,855.64
S7.04(1)	Dump Rock	sq.m.	136	861.50	117,164.00
S7.04(6)	Sodding	sq.m.	48	64.99	3,119.52
	Sub - total Section 7				733,171.43
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	105,674	33.81	3,572,837.94
S9.10(6)	Structure concrete				
	i) Concrete fc' = 280 ksc.	cu.m	66	3,374.01	222,684.66
	ii) Concrete fc' = 210 ksc.	cu.m	690	3,624.82	2,501,125.80
	iii) Plain Concrete	cu.m	42	2,890.73	121,410.66
	ix) Plain Concrete with 0.30 (min) Dump Rock	cu.m	64	3,402.36	217,751.04
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	12	2,251.58	27,018.96
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	66	523.44	34,547.04
	Sub - total Section 9				6,697,376.10
	Section 11 : Building Construction				
	Metal Sheet Sprayed with Polyurethane Foam 1" thk.	sq.m.	631	490.73	309,650.63
	Roof Structure	kg.	20,226	40.78	824,816.28
S11.14(2)	Brick walls				
	i) Cement plastering brick walls	sq m	1,946	588.87	1,145,941.02
S11.14(4)	Doors and windows				
	i) D3-Aluminium door 1.80x2.25 m	set	1	13,914.78	13,914.78
	ii) D4-Hardwood 0.90x2.00 m.	set	5	4,798.20	23,991.00
	iii) D5-Hardwood 0.90x2.00 m. (opening door)	set	2	4,961.78	9,923.56
	iv) D6-PVC door 0.80x2.00 m.	set	1	3,860.37	3,860.37
	v) D7-Hardwood 1.80x2.25 m. (opening door)	set	2	8,658.57	17,317.14
	vi) W1-Opening window 3.40 x 1.50 m	set	8	12,562.56	100,500.48
	vii) W2-Opening window 1.70 x 1.50 m	set	1	6,728.39	6,728.39

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SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 7 : POWERHOUSE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BATH
	viii) W3-Opening window 3.40 x 0.50 m	set	3	6,499.38	19,498.14
	ix) W4 Fixed glass window 3.40 x 1.50 m	set	8	14,874.42	118,995.36
	x) W5 Fixed glass window 1.20 x 0.50 m	set	1	2,639.01	2,639.01
	xi) W6 Sliding window 1.70 x 1.00 m	set	5	4,198.43	20,992.15
Amount Carried Forward					11,537,206.16




SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 7 : POWERHOUSE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
				BATH	BATH
Amount Brought Forward					11,537,206.16
S11.14(5)	Furnishing and Installing Steel Rolling Shutter Doors				
	i) D1-Steel roller shutter door size 5.15x5.85 m.	set	1	68,570.64	68,570.64
	ii) D2-Steel roller shutter door size 2.85x3.50 m.	set	1	22,137.15	22,137.15
S11.14(7)	Floor finishes				
	i) Floor 1-Coarse finished	sq m	84	130.86	10,992.24
	ii) Floor 2-Coated with Epoxy Resin	sq m	407	207.20	84,330.40
	iii) Floor 12"x12" CERAMIC FLOOR TILES	sq m	9	406.76	3,660.84
S11.14(8)	Wall finished				
	ii) 8"x8" CERAMIC WALL TILES	sq m	22	403.49	8,876.78
S11.14(8)	Ceiling works				
	Gypsum board with T-bar stud 0.60 x 0.60 m, 9.0 mm thk.	sq m	141	447.11	63,042.51
S11.14(11)	Signboard	LS	1	32,715.00	32,715.00
S11.14(14)	Water supply and sanitary services	LS	1	16,357.50	16,357.50
S11.14(15)	Seepage tank	LS	1	20,610.45	20,610.45
S11.14(17)	Lightning protection system	LS	1	5,452.50	5,452.50
Sub - total Section 11					2,955,514.32
S12.12(9)	Section 12 : Permanent Equipment and Miscellaneous Works				
	Miscellaneous metal works				
	i) Galvanize steel Handrail	m.	127	1,548.51	196,660.77
	ii) Cable trench type A	m.	35	2,311.86	80,915.10
	iii) Outdoor Cable trench	m.	7	2,595.39	18,167.73
	iv) Steel Stair	kg.	400	41.44	16,576.00
Sub - total Section 12					312,319.60
S15.05(1)	Section 15 : Illumination Equipment				
	Indoor illumination equipment	L.S.	1	439,698.36	439,698.36
S15.05(2)	Outdoor illumination equipment and main low power cable				
	i) Main low power cable in powerhouse	L.S.	1	399,583.60	399,583.60
S15.05(3)	Air- condition				
	i) Air condition 36,000 BTU	set	2	64,446.00	128,892.00
	ii) Air condition 24,000 BTU	set	1	57,132.00	57,132.00
S15.05(4)	Ventilator 12"	set	7	1,932.00	13,524.00
S15.05(5)	Miscellaneous equipments	L.S.	1	53,546.30	53,546.30
Sub - total Section 15					1,092,376.26
16.10(2)	Section 16 : 22 kV Transmission Line and Low Tension Cable				
	Furnishing and Installing of 22 kV Transmission Line	km.	8	1,680,112.24	13,440,897.92
16.10(3)	Main Power Cable Low Voltage 4 AC. Distribution-Load Schedule of Panel Bo	L.S.	1	337,465.20	337,465.20
16.10(5)	Load Schedule of Panel Board 4 Power House	L.S.	1	42,315.40	42,315.40
16.10(6)	Electric Device 4 Switchyard	L.S.	1	87,804.80	87,804.80
	Solar Rooftop 20 kW	L.S.	1	1,016,600.00	1,016,600.00
Sub - total Section 16					14,925,083.32
GRAND TOTAL OF GROUP 7					28,203,731.35





**SCHEDULE OF QUANTITIES, RATES AND PRICES-SUMMARY OF BID AMOUNT FOR
GROUP 8 : TAILRACE**

SECTION NO.	SECTION TITLE	SUB-TOTAL AMOUNT BAHT
9	CONCRTE WORKS	2,148,586.97
12	PERMANENT EQUIPMENT AND MISCELLANEOUS METAL WORKS	336,550.20
TOTAL OF BID AMOUNT GROUP 8		2,485,137.17

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SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 8 : TAILRACE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BATH	AMOUNT BATH
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	35,619	33.81	1,204,278.39
S9.10(6)	Structure concrete ii) Concrete $f_c' = 210$ ksc.	cu.m	250	3,624.82	906,205.00
S9.10(8)	Miscellaneous concrete i) Lean concrete	cu.m	13	2,251.58	29,270.54
S9.10(9)	Waterstops i) PVC waterstop type A	m.	14	523.44	7,328.16
S9.10(11)	Joint fillers and sealer i) Elastic filler	sq.m	4	376.22	1,504.88
	Sub - total Section 9				2,148,586.97
	Section 12 : Permanent Equipment and Miscellaneous Works				
S12.12(8)	Supply and installation gate and hoist Vertical gate size 1.50 x 1.50 m with 6500 Kg. Vertical ScREW-Lift	set	2	167,937.00	335,874.00
S12.12(9)	Miscellaneous metal works Ladder Rungs	kg.	20	33.81	676.20
	Sub - total Section 12				336,550.20
GRAND TOTAL OF GROUP 8					2,485,137.17




MAE HAT HYDROPOWER PROJECT

CONTRACT C-2

SCHEDULE 3 - Summary of Prices

Item No.	Details	Total Price (Baht)
1	TOTAL PRICE OF EQUIPMENT	64,690,700.00
2	TOTAL PRICE OF SPARE PARTS	3,890,000.00
3	TOTAL PRICE OF MAINTENANCE TOOLS AND INSTRUMENTS*	2,524,000.00
4	PRICE OF FACTORY TESTS	1,500,000.00
5	PRICE OF ERECTION	3,800,000.00
6	PRICE OF FIELD PERFORMANCE TESTS	1,750,000.00
	SUB - TOTAL	78,154,700.00
	VAT 7%	5,470,829.00
GRAND TOTAL BID PRICE		83,625,529.00

Note : * The Bidder shall breakdown the price of Maintenance Tools and Instruments as specified in Clause S 1.05 of Volume 2 in Schedule 6

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MAE HAT HYDROPOWER PROJECT

CONTRACT C-2

SCHEDULE 4 - SUMMARY PRICES OF EQUIPMENT

Item No.	Details	Total Price (Baht)
1	TURBINE AND GOVERNOR	17,250,000.00
2	INLET VALVE	1,107,500.00
3	MECHANICAL AUXILIARY EQUIPMENT	5,990,000.00
4	GENERATOR AND AUXILIARIES	14,216,000.00
5	AC STATION SERVICE TRANSFORMERS & SWITCHBOARDS	1,370,000.00
6	TRANSFORMER TERMINAL CUBICLES, GENERATOR TERMINAL CUBICLES, BUS DUCTS AND NEUTRAL	8,110,000.00
7	DC STATION SERVICES	1,890,000.00
8	CONTROL, PROTECTION AND ALARM SYSTEM	6,550,000.00
9	MAIN TRANSFORMER	3,100,000.00
10	LINE PROTECTION AND SWITCHYARD EQUIPMENT	1,954,000.00
11	COMMUNICATION SYSTEM	200,000.00
12	GROUNDING SYSTEM	385,000.00
13	ELECTRICAL AUXILIARY EQUIPMENT	2,568,200.00
SUB - TOTAL		64,690,700.00



