

ราคากลาง ค่าก่อสร้างอาคารโรงไฟฟ้า ระบบส่งน้ำ พร้อมส่วนประกอบอื่นๆ
(งานปรับปรุงประสิทธิภาพและเพิ่มกำลังผลิต โครงการไฟฟ้าพลังน้ำคลองลำปลอก) ต.โพรงจระเข้ อ.ย่านตาขาว จ.ตรัง

KLONG LAM PLOK HYDROPOWER PROJECT

CONTRACT C1

CONSTRUCTION OF CIVIL WORKS

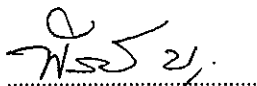
GROUP SCHEDULE OF BID AMOUNT

GROUP No.	GROUP TITLE	TOTAL AMOUNT (BAHT)
	CONTRACT C1 CIVIL WORK	
1	GENERAL	1,140,000.00
2	WEIR IMPROVEMENT AND INTAKE STRUCTURE	6,197,003.00
3	HEADRACE	80,876,825.00
4	O&M ROAD	396,395.00
5	SURGE TANK	9,287,313.00
6	PENSTOCK	64,539,105.60
7	POWERHOUSE	14,091,184.30
8	TAILRACE	2,832,405.00
	BID AMOUNT GROUP 1 TO 8	179,360,230.90
	VAT 7 %	12,555,216.16
	GRAND TOTAL	191,915,447.06

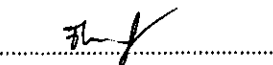
คณะกรรมการกำหนดราคากลาง



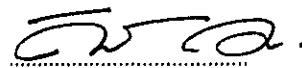
(นายสมพงษ์ พงศ์สุภาพ)



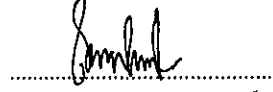
(นายพีระพงษ์ บุญแสง)



(นายธีรศักดิ์ รุ่งแสงจันทร์)



(นายกิตติพร ป็อชี้้ว)



(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	710,000.00	710,000.00
	ii) Field office for Engineer size 120 sqm	LS	1	430,000.00	430,000.00
	Sub - total Section 1				1,140,000.00
GRAND TOTAL OF GROUP 1					1,140,000.00

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

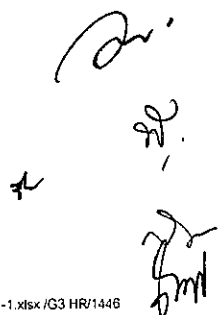
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
S2.06(1)	Section 2 : Water Control and Dewatering	LS	1	1,000,000.00	1,000,000.00
S2.06(4)	Diversions and control of River during construction	LS	1	1,420,000.00	1,420,000.00
	Sub - total Section 2				2,420,000.00
S3.09(2)	Section 3 : Surface Excavation	sq.m	182	3.00	546.00
S3.09(3)	Clearing and Grubbing	cu.m	46	21.00	966.00
S3.09(4)	Stripping	cu.m	92	37.00	3,404.00
S3.09(5)	Common Excavation	cu.m			
	Rock Excavation	cu.m			
	i) Weathered rock	cu.m	369	104.00	38,376.00
	ii) Sound rock	cu.m	533	240.00	127,920.00
S3.09(6)	Drilling hole for drainage	m	411	1,100.00	452,100.00
S3.09(9)	Demolish Existing Structure	cu.m	19	650.00	12,350.00
	i) Remove existing weir surface	cu.m	3	650.00	1,950.00
	ii) Headwall				
	Sub - total Section 3				637,612.00
S4.07(1)	Section 4 : Fill and Backfill	cu.m	1,099	370.00	406,630.00
	Compacted backfill and fill				
	Sub - total Section 4				406,630.00
S7.04(8)	Section 7 : Protection and Support Excavation	set	411	520.00	213,720.00
	Anchor bar dia. 12 mm, L = 0.50 m				
	Sub - total Section 7				213,720.00
S9.10(3)	Section 9 : Concrete Works	kg.	26,662	35.00	933,170.00
S9.10(6)	Reinforcing bars	cu.m	330	3,200.00	1,056,000.00
	Structure concrete	cum	0.5	7,700.00	3,850.00
	i) Concrete fe' = 210 ksc.				
	ii) Non-Shrink Mortar grout				
S9.10(8)	Miscellaneous concrete	cum	23	2,100.00	48,300.00
	i) Lean concrete				
S9.10(9)	Waterstops	m.	9	530.00	4,770.00
	i) PVC waterstop type A				
S9.10(11)	Joint fillers and sealer	sq.m	241	51.00	12,291.00
	i) Sealing compound				
	Sub - total Section 9				2,058,381.00
S12.12(8)	Section 12 : Permanent Equipment and Miscellaneous Works	set	1	170,000.00	170,000.00
	Supply and installation vertical gates	set	1	120,000.00	120,000.00
	i) Sand Sluice gate size 1.50 x 1.50 m w/predestal lift 6.5 tons				
	ii) Vertical gate dia. 1.50 m with predestal lift 2.25 tons				
S12.12(9)	Miscellaneous metal works	kg.	2,869	40.00	114,760.00
	i) Supply and installation Steel structure	m.	43	1,300.00	55,900.00
	ii) Supply and installation handrail				
	Sub - total Section 12				460,660.00
GRAND TOTAL OF GROUP 2					6,197,003.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 3 : HEADRACE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
Section 3 : Surface Excavation					
S3.09(2)	Clearing and Grubbing	sq.m	3,721	3.00	11,163.00
S3.09(3)	Stripping	cu.m	1,116	21.00	23,436.00
S3.09(4)	Common Excavation	cu.m	4,713	37.00	174,381.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	1,347	104.00	140,088.00
	ii) Sound rock	cu.m	673	240.00	161,520.00
S3.09(9)	Demolished old structure at site	cu.m	797	650.00	518,050.00
	i) Existing Pier	cu.m	629	650.00	408,850.00
	ii) Remove Existing Headrace	cu.m	1,460	650.00	949,000.00
<i>Drain Culvert STA.0+108.80, STA.0+191.773, Road Crossing STA.0+252.50, Drain Culvert STA.0+505.861 STA.0+647.684, STA.0+830.169, STA.1+026.360, STA.1+150.523, STA.1+173.758, STA.1+381.985</i>					
S3.09(2)	Clearing and Grubbing	sq.m	2,237	3.00	6,711.00
S3.09(3)	Stripping	cu.m	638	21.00	13,398.00
S3.09(4)	Common Excavation	cu.m	3,146	37.00	116,402.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	713	104.00	74,152.00
S3.09(9)	Demolished old structure at site				
	i) Existing O&M Road	cu.m	74	650.00	48,100.00
	ii) Existing Pipe Culvert Ø 0.80 m.	cu.m	19	650.00	12,350.00
	iii) Existing Pipe Culvert Ø1.20 m.	cu.m	47	650.00	30,550.00
	iv) Existing Box Culvert	cu.m	5	650.00	3,250.00
Sub - total Section 3					2,691,401.00
Section 4 : Fill and Backfill					
S4.07(1)	Compacted backfill and fill	cu.m	3,706	370.00	1,371,220.00
<i>Drain Culvert STA.0+108.80, STA.0+191.773, Road Crossing STA.0+252.50, Drain Culvert STA.0+505.861 STA.0+647.684, STA.0+830.169, STA.1+026.360, STA.1+150.523, STA.1+173.758, STA.1+381.985</i>					
S4.07(1)	Compacted backfill and fill	cu.m	2,918	370.00	1,079,660.00
S4.07(3)	Compacted coarse sand	cu.m	54	670.00	36,180.00
Sub - total Section 4					2,487,060.00
Section 7 : Protection and Support Excavation					
<i>Drain Culvert STA.0+108.80, STA.0+191.773, Road Crossing STA.0+252.50, Drain Culvert STA.0+505.861 STA.0+647.684, STA.0+830.169, STA.1+026.360, STA.1+150.523, STA.1+173.758, STA.1+381.985</i>					
S7.04(1)	Riprap	cu.m	110	840.00	92,400.00
S7.04(1)	Mattress 6.00x2.00x0.30 m.	cu.m	108	2,000.00	216,000.00
Sub - total Section 7					308,400.00
Section 9 : Concrete Works					
S9.10(3)	Reinforcing bars	kg.	108,937	35.00	3,812,795.00
S9.10(6)	Structure concrete				
	i) Concrete f'c = 210 ksc.	cu.m	1,219	3,200.00	3,900,800.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	105	2,100.00	220,500.00
S9.10(11)	Joint fillers and sealer				
	ii) Elastic filler	sq.m	50	380.00	19,000.00
<i>Drain Culvert STA.0+108.80, STA.0+191.773, Road Crossing STA.0+252.50, Drain Culvert STA.0+505.861 STA.0+647.684, STA.0+830.169, STA.1+026.360, STA.1+150.523, STA.1+173.758, STA.1+381.985</i>					
S9.10(3)	Reinforcing bars	kg.	28,871	35.00	1,010,485.00
S9.10(6)	Structure concrete				
	i) Concrete f'c = 280 ksc.	cu.m	634	3,200.00	2,028,800.00
	ii) Concrete f'c = 210 ksc.	cu.m	857	3,100.00	2,656,700.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	98	2,100.00	205,800.00
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	122	530.00	64,660.00
S9.10(11)	Joint fillers and sealer				
	i) Elastic filler	sq.m	26	380.00	9,880.00
	ii) Joint sealer	m	81	76.00	6,156.00
	iii) Plastic Sheet	sq.m	22	32.00	704.00
Sub - total Section 9					13,936,280.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 3 : HEADRACE

S12.12(9)	Section 12 : Permanent Equipment and Miscellaneous Works Miscellaneous metal works - Ring girder Sub - total Section 12	kg.	194,388	43.00	8,358,684.00 8,358,684.00
S13.14(2)	Section 13 : Steel Liners and Steel Conduit Pipes Steel Liners and steel conduit pipes i) Steel liners dia. 1.50 m. 12.7 mm. Thk. Sub - total Section 13	m.	1,435	37,000.00	53,095,000.00 53,095,000.00
GRAND TOTAL OF GROUP 3					80,876,825.00

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

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
S3.09(3)	Section 3 : Surface Excavation				
S3.09(4)	Stripping	cu.m	146	21.00	3,066.00
	Common Excavation	cu.m	18	37.00	666.00
	Sub - total Section 3				3,732.00
S4.07(3)	Section 4 : Fill and Backfill				
	Free Draining Backfill				
	i) Compacted coarse sand	cu.m	44	670.00	29,480.00
	Sub - total Section 4				29,480.00
S9.10(3)	Section 9 : Concrete Works				
S9.10(6)	Reinforcing bars	kg.	1,379	35.00	48,265.00
S9.10(11)	Structure concrete				
	i) Concrete f _c ' = 280 ksc.	cu.m	58	3,200.00	185,600.00
	Joint for access roads				
	i) Mastie Joint Sealer	m	33	320.00	10,560.00
	ii) Plastic sheet	sq.m	20	32.00	640.00
	iii) Elastic filler	sq.m	1	380.00	380.00
	iv) Contraction Joint: Dowel bar to be painted and greasee	No	110	89.00	9,790.00
	v) Expansion Joint: Dowel bar to be painted and greasee, with metal cap	No	108	96.00	10,368.00
	vi) Longitudinal Joint: Deformed tie bar	No	1,190	82.00	97,580.00
	Sub - total Section 9				363,183.00
GRAND TOTAL OF GROUP 4					396,395.00

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

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 3 : Surface Excavation				
S3.09(2)	Clearing and Grubbing	sq.m	234	3.00	702.00
S3.09(3)	Stripping	cu.m	70	21.00	1,470.00
S3.09(4)	Common Excavation	cu.m	211	37.00	7,807.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	48	104.00	4,992.00
	ii) Sound rock	cu.m	289	240.00	69,360.00
S3.09(9)	Demolish Existing Structure				
	i) Existing Forebay	cu.m	59	650.00	38,350.00
	Sub - total Section 3				122,681.00
	Section 4 : Fill and Backfill				
S4.07(1)	Compacted backfill and fill	cu.m	431	370.00	159,470.00
S4.07(3)	Compacted coarse sand	cu.m	8	670.00	5,360.00
	Sub - total Section 4				164,830.00
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	19,579	35.00	685,265.00
S9.10(6)	Structure concrete				
	i) Concrete fc' = 280 ksc.	cu.m	8	3,200.00	25,600.00
	ii) Concrete fc' = 210 ksc.	cu.m	406	3,100.00	1,258,600.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	10	2,100.00	21,000.00
S9.10(11)	Joint fillers and sealer				
	i) Mastic Joint Sealer	m	33	320.00	10,560.00
	ii) Plastic sheet	sq.m	20	32.00	640.00
	Sub - total Section 9				2,001,665.00
	Section 12 : Permanent Equipment and Miscellaneous Works				
S12.12(9)	Miscellaneous metal works				
	i) Ring Girder Stiffener & Side Column	kg.	18,596	53.00	985,588.00
	ii) Surge Tank Cover Plate	kg.	2,375	44.00	104,500.00
	iii) Steel Tank 18 mm. THK.	kg.	37,015	43.00	1,591,645.00
	iv) Ladder Rungs	kg.	1,262	34.00	42,908.00
	v) Cover Plate for Penstock Valve Chamber	kg.	289	44.00	12,716.00
	vi) Cover Plate for Sediment Valve Chamber	kg.	70	44.00	3,080.00
	vii) Gate Valve Ø 1.40 m.(Emergency valve chamber)	set	1	3,610,000.00	3,610,000.00
	viii) Gate Valve Ø 0.30 m.(Sediment valve chamber)	set	1	49,000.00	49,000.00
	Sub - total Section 12				6,399,437.00
	Section 13 : Steel Liners and Steel Conduit Pipes				
S13.14(2)	Steel Liners and steel conduit pipes				
	i) Steel liners dia.1.50 m. 12.7 mm. THK.	m.	3.1	37,000.00	114,700.00
	ii) Steel liners dia.1.40 m. 19.1 mm. THK.	m.	7.6	52,000.00	395,200.00
	iii) Steel Pipe dia.0.30 m.	m.	24	3,600.00	86,400.00
	Sub - total Section 13				596,300.00
	Section 14 : Miscellaneous Works				
S14.06(5)	PVC pipe and component dia. 100 mm.	m.	8	300.00	2,400.00
	Sub - total Section 14				2,400.00
GRAND TOTAL OF GROUP 5					9,287,313.00

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 6 : PENSTOCK

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 3 : Surface Excavation				
S3.09(2)	Clearing and Grubbing	sq.m	3,562	3.00	10,686.00
S3.09(3)	Stripping	cu.m	1,069	21.00	22,449.00
S3.09(4)	Common Excavation	cu.m	4,200	37.00	155,400.00
S3.09(9)	Demolish Existing Structure				
	i) Existing Forebay	cu.m	545	650.00	354,250.00
	ii) Existing Road	cu.m	8	650.00	5,265.00
	iii) Remove Existing Penstock	cu.m	517	650.00	336,050.00
	<i>Road Crossing STA.0+356.385</i>				
S3.09(4)	Common Excavation	cu.m	250	37.00	9,250.00
S3.09(9)	Demolish Existing Structure				
	i) Existing Box Culvert	cu.m	13	650.00	8,450.00
	ii) Existing O&M Road	cu.m	8	650.00	5,200.00
	Sub - total Section 3				907,000.00
	Section 4 : Fill and Backfill				
S4.07(1)	Compacted backfill and fill	cu.m	6,428	370.00	2,378,360.00
	<i>Road Crossing STA.0+356.385</i>				
S4.07(1)	Compacted backfill and fill	cu.m	232	370.00	85,840.00
S4.07(3)	Compacted coarse sand	cu.m	6.5	670.00	4,355.00
	Sub - total Section 4				2,468,555.00
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	83,942	35.00	2,937,970.00
S9.10(6)	Structure concrete				
	ii) Concrete fe' = 210 ksc.	cu.m	3,064	3,000.00	9,192,000.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	58.3	2,100.00	122,430.00
	<i>Road Crossing STA.0+356.385</i>				
S9.10(3)	Reinforcing bars	kg.	1,897	35.00	66,395.00
S9.10(6)	Structure concrete				
	ii) Concrete fe' = 210 ksc.	cu.m	8.1	3,200.00	25,920.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	2.1	2,100.00	4,410.00
S9.10(11)	Joint for access roads				
	i) Mastie Joint Sealer	m	9.0	320.00	2,880.00
	ii) Plastic sheet	sq.m	10.8	32.00	345.60
	Sub - total Section 9				12,352,350.60
	Section 12 : Permanent Equipment and Miscellaneous Works				
S12.12(9)	Miscellaneous metal works				
	i) Ring Girder	kg.	73,740	53.00	3,908,220.00
	ii) Wye (Ring and Beam)	kg.	5,708	1,060.00	6,050,480.00
	Sub - total Section 12				9,958,700.00
	Section 13 : Steel Liners and Steel Conduit Pipes				
S13.14(2)	Steel Liners and steel conduit pipes				
	i) Steel liners dia.1.40 m.	m.	738.5	52,000.00	38,402,000.00
	ii) Steel liners dia.0.80 m.	m.	26.5	17,000.00	450,500.00
	Sub - total Section 13				38,852,500.00
GRAND TOTAL OF GROUP 6					64,539,105.60

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 7 : POWERHOUSE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
Section 3 : Surface Excavation					
S3.09(2)	Clearing and Grubbing	sq.m	190	3.00	570.00
S3.09(3)	Stripping	cu.m	57	21.00	1,197.00
S3.09(4)	Common Excavation	cu.m	5,523	37.00	204,351.00
S3.09(5)	Rock Excavation				
	i) Weathered rock	cu.m	5,523	104.00	574,392.00
S3.09(9)	Demolish Existing Structure				
	i) Existing Road	cu.m	38	650.00	24,700.00
	ii) Existing Wood Building	cu.m	67	650.00	43,550.00
	iii) Existing Drain Culvert D 0.60 m.	cu.m	15	650.00	9,750.00
	Sub - total Section 3				858,510.00
Section 4 : Fill and Backfill					
S4.07(1)	Compacted backfill and fill	cu.m	9,900	50.00	495,000.00
	Sub - total Section 4				495,000.00
Section 5 : Drainage					
S5.10(6)	Drain pipes				
	i) Furnishing and installing RC. Ø 0.60 m.	m.	45	1,060.00	47,700.00
	ii) MH for Ø 0.60 Drain Culvert	unit	5	8,500.00	42,500.00
	iii) Gutter drain	m.	90	500.00	45,000.00
	Sub - total Section 5				135,200.00
Section 7 : Protection and Support Excavation					
S7.04(1)	Mattress - 6.00x2.00x0.30 m	cu.m	205	2,000.00	410,000.00
S7.04(1)	Riprap	cu.m	1,641	840.00	1,378,440.00
S7.04(1)	Geotextile	sq.m.	1,118	130.00	145,340.00
S7.04(1)	Dump Rock	sq.m.	130	580.00	75,400.00
S7.04(6)	Sodding	sq.m.	57	66.00	3,762.00
	Sub - total Section 7				2,012,942.00
Section 9 : Concrete Works					
S9.10(3)	Reinforcing bars	kg.	59,476	35.00	2,081,660.00
S9.10(6)	Structure concrete				
	i) Concrete f _c ' = 210 ksc.	cu.m	257	4,000.00	1,028,000.00
S9.10(8)	Miscellaneous concrete				
	ii) Lean concrete	cu.m	6	1,900.00	11,400.00
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	64	530.00	33,920.00
	Sub - total Section 9				3,154,980.00
Section 11 : Building Construction					
S11.14(2)	Metal Sheet Sprayed with Polyurethane Foam 1" thk.	sq.m.	650	1,080.00	702,000.00
	Roof Structure	kg.	19,781	40.00	791,240.00
	Brick walls				-
	i) Cement plastering brick walls	sq m	1,980	380.00	752,400.00
S11.14(4)	Doors and windows				-
	i) D3-Hardwood 0.90x2.25 m	set	2	4,000.00	8,000.00
	ii) D4-Hardwood 0.90x2.00 m	set	2	3,800.00	7,600.00
	iii) D5-PVC door 0.80 x 2.00 m	set	1	-	-
	iv) D6-Aluminium door 1.60 x 2.50 m	set	2	4,800.00	9,600.00
	v) W1-Opening window 3.40 x 1.50 m	set	12	6,120.00	73,440.00
	vi) W2-Opening window 1.70 x 1.50 m	set	3	3,060.00	9,180.00
	vii) W3-Opening window 3.40 x 0.50 m	set	2	2,040.00	4,080.00
	viii) W4 Fixed glass window 3.40 x 1.50 m	set	9	4,998.00	44,982.00
	ix) W5 Fixed glass window 1.20 x 0.50 m	set	1	588.00	588.00
	x) W6 Sliding window 1.70 x 1.00 m	set	4	2,550.00	10,200.00
	xi) W6 Sliding window 3.35 x 1.50 m	set	1	7,537.50	7,537.50
Amount Carried Forward					9,077,479.50

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 7 : POWERHOUSE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
Amount Brought Forward					9,077,479.50
S11.14(5)	Furnishing and Installing Steel Rolling Shutter Doors				
	i) D1-Steel roller shutter door size 5.70x6.00 m.	set	1	77,000.00	77,000.00
	ii) D1-Steel roller shutter door size 2.85x3.60 m.	set	1	23,000.00	23,000.00
S11.14(7)	Floor finishes				
	i) Floor 1-Coarse finished	sq m	28	130.00	3,640.00
	ii) Floor 2-Coated with Epoxy Resin	sq m	308	210.00	64,680.00
	iii) Floor 12"x12" CERAMIC FLOOR TILES	sq m	6	410.00	2,460.00
S11.14(8)	Wall finished				
	ii) 8"x8" CERAMIC WALL TILES	sq m	16	410.00	6,560.00
S11.14(8)	Ceiling works				
	Gypsum board with T-bar stud 0.60 x 0.60 m, 9.0 mm thk.	sq m	115	450.00	51,750.00
S11.14(11)	Signboard	LS	1	3,300.00	3,300.00
S11.14(14)	Water supply and sanitary services	LS	1	16,000.00	16,000.00
S11.14(15)	Seepage tank	LS	1	20,000.00	20,000.00
S11.14(17)	Lightning protection system	LS	1	5,500.00	5,500.00
Sub - total Section 11					2,694,737.50
S12.12(9)	Section 12 : Permanent Equipment and Miscellaneous Works				
	Miscellaneous metal works				
	i) Galvanize steel Handrail	m.	12	1,300.00	15,600.00
	ii) Cable trench type A	m.	65	2,200.00	143,000.00
	iii) Outdoor Cable trench	m.	34	2,500.00	85,000.00
	iv) Steel Stair	kg.	439	43.00	18,877.00
Sub - total Section 12					262,477.00
S15.05(1)	Section 15 : Illumination Equipment				
	Indoor illumination equipment	L.S.	1	419,172.00	419,172.00
S15.05(2)	Outdoor illumination equipment and main low power cable				
	i) Main low power cable in powerhouse	L.S.	1	368,428.00	368,428.00
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	8	1,932.00	15,456.00
S15.05(5)	Miscellaneous equipments	L.S.	1	51,046.00	51,046.00
Sub - total Section 15					1,040,126.00
S16.10(2)	Section 16 : 33 kV Transmission Line and Low Tension Cable				
	Furnishing and Installing of 33 kV Transmission Line	km.	1.327	2,264,951.00	3,005,590.00
S16.10(3)	Main Power Cable Low Voltage 4 AC. Distribution-Load Schedule of Panel Board	L.S.	1	301,502.00	301,502.00
S16.10(5)	Load Schedule of Panel Board 4 Power House	L.S.	1	42,315.00	42,315.00
S16.10(6)	Electric Device 4 Switchyard	L.S.	1	87,805	87,804.80
Sub - total Section 16					3,437,211.80
GRAND TOTAL OF GROUP 7					14,091,184.30

SCHEDULE OF QUANTITIES, RATES AND PRICES
GROUP 8 : TAILRACE

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE BAHT	AMOUNT BAHT
	Section 9 : Concrete Works				
S9.10(3)	Reinforcing bars	kg.	21,408	35.00	749,280.00
S9.10(6)	Structure concrete				
	ii) Concrete fc' = 210 ksc.	cu.m	456	4,000.00	1,824,000.00
S9.10(8)	Miscellaneous concrete				
	i) Lean concrete	cu.m	5	2,100.00	10,500.00
S9.10(9)	Waterstops				
	i) PVC waterstop type A	m.	13	530.00	6,890.00
S9.10(11)	Joint fillers and sealer				
	i) Elastic filler	sq.m	3	380.00	1,140.00
	Sub - total Section 9				2,591,810.00
	Section 12 : Permanent Equipment and Miscellaneous Works				
S12.12(8)	Supply and installation gate and hoist				
	Vertical gate size 1.25 x 1.25 m with 2250 Kg. Vertical Scew-Lift	set	2	120,000.00	240,000.00
S12.12(9)	Miscellaneous metal works				
	Ladder Rungs	kg.	17	35.00	595.00
	Sub - total Section 12				240,595.00
GRAND TOTAL OF GROUP 8					2,832,405.00