

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost: Excavation (Excavation for Foundation) Backhoe 0.6m3 Unit: 100 m3 Sheet # PC 108000

No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)				
1	Backhoe	1*100/D	day	0.45	0	0.00	970,542	0.00	436,744	EL	101002	
Summary												
										436,744		
										4,367		

Per m3
D=220m3/day
Volume is indicated in ground soil volume
REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost Excavation(Excavation for Foundation) (W) Backhoe 0.6m3 Unit: 100 m3 Sheet #: PC 108010

No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Backhoe	0.6m3	day	0.56	0	0.00	970,542	0.00	543,504	EL 101002
Summary										
									543,504	
									5,435	

D=180m³/day
Volume is indicated in ground soil volume

REMARKS

1 US\$ = 108JP Yen = 14,100 VND

CAN THO BRIDGE CONSTRUCTION PROJECT		Backfilling - A		W2>4m			Unit: 100	Unit: m3	
Process Cost		Backfilling - A			Sheet: # PC			109000	
No.	Description	Specification	Unit	Quantity	Unit Price	Foreign Currency (JP Yen)			Remarks
						Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Backhoe	0.6m3	hr	2.00	0.00	176,462	0.00	352,924	EL 101000
2	Bulldozer	1.5t	hr	2.00	0.00	204,440	0.00	408,880	EL 102000
3	Sand for Back Fill	Dni Nai	m3	120.00	0.00	19,280	0.00	2,313,600	M 107510
Summary								3,075,404	
Per m3								30,754	
REMARKS				L=1.2, C=0.9					
				Soil Convert Coefficient ; Volume of ground soil : I, Volume of loose soil : L, Volume of compacted soil : C					
				Volume is indicated in ground soil volume					

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CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost

Unit: 100 m3

Sheet #: PC 112010

Compaction with Tamper

No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Common Labor	1*3.0	M/day	3.00	0	0.00	58.671	176.013	0.00	0.00	L 103000
2	Tamper for PC 112010	60kg - 100kg 1*3.0	day	3.00	0	0.00	81.526	244.578	0.00	0.00	EL 106610
Summary											
											420,591
per m3											
REMARKS											

Volume is indicated in ground soil volume

4,206

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost

Compaction (Filled Up Ground)

Tire Roller

Unit: 100

m3

Sheet #: PC

I15000

No.	Description	Specification	Unit	Quantity	Unit Price			Local Currency (USD)	Local Currency (VND)	Combined Total Cost (VND)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (USD)				
1	Tire Roller	8t - 20t	day	0.08	0	0.00	755,045	0.00	60,404	IEL 107010	
Summary									60,404		
per m3									604		

D=1,330m3/day
Volume is indicated in ground soil volume

REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT											
Process Cost											
				Tire Roller				Unit: 100 m ³			
Compaction (Subgrade)											
No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)			
1	Tire Roller	8t - 20t	day	0.17	0	0.00	755,045	0.00	128,358	107010	
	Summary								128,358		
	per m ³								1,284		

D=580m³/day
Volume is indicated in ground soil volume

REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT										Unit: 1000 nos
Process Cost										Sheet #: PC 119540
PVD										Length 13m
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Foreman	Local	M/day	5.36	0	0.00	146,392	0.00	784,661	L 101000
2	Skilled Labor	Local	M/day	5.36	0	0.00	118,898	0.00	637,293	L 104000
3	Common Labor	Local	M/day	5.36	0	0.00	58,671	0.00	314,477	L 103000
4	Pre Fabricated Vertical Drain Machine		day	5.36	0	0.00	1,118,229	0.00	5,993,707	EL 184000
5	Truck		day	5.36	0	0.00	250,983	0.00	1,345,269	EL 186000
6	PVD	Width is 10cm	m	13.936	0	0.28	0	0.00	55,019,328	M 150500
Summary										64,094,735
$Q = L^2 * (1.00 + E1 + E2 + E3) * T/L$ (nos/day) ; L=290m/hr, E1=0.30+0.01*(L-20) ; L=13m, E2=0.00, E3=0.00, T=6.1hr/day PV Drain $I = (L+0.40) * (1+a/100)$; L=13, a=4										64,095
REMARKS										

1US\$=108JP Yen=14,100VND

No.	Description	Specification	Unit	Quantity	Unit Price			Local Currency (VND)	Local Currency (US\$)	Combined Total Cost (VND)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (US\$)				
1	Foreman	Local 1*1000/Q*1	M/day	7.71	0	0.00	146,392	0.00	1,126,682	L 101000	
2	Skilled Labor	Local 1*1000/Q*1	M/day	7.71	0	0.00	118,898	0.00	916,704	L 104000	
3	Common Labor	Local 1*1000/Q*1	M/day	7.71	0	0.00	58,671	0.00	452,353	L 103000	
4	Pre Fabricated Vertical Drain Machine	1*1000/Q*1	day	7.71	0	0.00	1,118,229	0.00	8,621,546	EL 184000	
5	Truck	1*1000/Q*1	day	7.71	0	0.00	250,983	0.00	1,935,079	EL 186000	
6	PVD	Width is 10cm 1000 * 1	m	19,136	0	0.28	0	0.00	75,548,928	M 150500	
Summary											
per nos										88,603	
REMARKS											

Q=L*(1.00+E1+E2+E3)*T/L (nos/day) ; L=290m/hr, E1=0.30+0.01*(L-20) ; L=18m, E2=0.00, E3=0.00, T=6.1hr/day
 PV Drain l=(L+0.40)*(1+a/100) ; L=18, a=4

1USS=108JP Yen=14,100VND

No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	Foreign Currency (VND)	Local Currency (VND)	Local Currency (US\$)	
1	Foreman	Local 1*1000/Q*1	M/day	8.86	0	0.00	146,392	0.00	1,297,093	L	101000	
2	Skilled Labor	Local 1*1000/Q*1	M/day	8.86	0	0.00	118,998	0.00	1,053,436	L	104000	
3	Common Labor	Local 1*1000/Q*1	M/day	8.86	0	0.00	58,671	0.00	519,825	L	103000	
4	Pre Fabricated Vertical Drain Machine	2t	day	8.86	0	0.00	1,118,229	0.00	9,907,509	EL	184000	
5	Truck	1*1000/Q*1	day	8.86	0	0.00	250,983	0.00	2,223,709	EL	186000	
6	PVD	Width is 10cm 1000 * 1	m	22,256	0	0.28	0	0.00	87,866,688	M	150500	
Summary												
Q=L*(1.00+E1+E2+E3)*T/L (nos/day) : L=290m/hr, E1=0.30+0.01*(L-20) ; L=21m, E2=0.00, E3=0.00, T=6.1hr/day PV Drain 1=(L+0.40)*(1+a/100) ; L=21, a=4												
									102,868,200			
									102,868			

per nos REMARKS

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost PVD Length: 25m Unit: 1000 nos Sheet #: PC 119570

No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Foreman	Local	M/day	10.47	0	0.00	146,392	0.00	1,532,724 L	101000
2	Skilled Labor	Local	M/day	10.47	0	0.00	118,898	0.00	1,244,862 L	104000
3	Common Labor	Local	M/day	10.47	0	0.00	58,671	0.00	614,285 L	103000
4	Pre Fabricated Vertical Drain Machine	2l	day	10.47	0	0.00	1,118,229	0.00	11,707,858 EL	184000
5	Truck	Width is 10cm	day	10.47	0	0.00	250,983	0.00	2,627,792 EL	186000
6	PVD	1000 * 1	m	26,416	0	0.28	0	0.00	104,290,368 M	150500
Summary										
per										
nos										
REMARKS										

$$Q = L^3 \cdot (1.00 + E1 + E2 + E3) \cdot T/L \text{ (nos/day)} ; L=290m/hr; E1=0.30+0.01 \cdot (L-20) ; L=25m; E2=0.00; E3=0.00; T=6.1hr/day$$

$$PV \text{ Drain } 1 = (L+0.40) \cdot (1+a/100) ; L=25, a=4$$

122,018

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT PVD Length: 27m Unit: 1000 nos
 Process Cost Sheet #: PC 119580

No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Foreman	Local	M/day	11.48	0	0.00	146,392	0.00	1,680,580	L	101000
2	Skilled Labor	Local	M/day	11.48	0	0.00	118,898	0.00	1,364,949	L	104000
3	Common Labor	Local	M/day	11.48	0	0.00	58,671	0.00	673,543	L	103000
4	Pre Fabricated Vertical Drain Machine	2l	day	11.48	0	0.00	1,118,229	0.00	12,837,269	EL	184000
5	Truck	Width is 10cm	day	11.48	0	0.00	250,953	0.00	2,881,285	EL	186000
6	PVD	1000 * 1	m	28,496	0	0.28	0	0.00	112,502,208	M	150500
Summary											
$Q = L \cdot I \cdot (1.00 + E1 + E2 + E3) \cdot T / L$ (nos/day) ; $L1 = 250m/hr$; $E1 = 0.30 + 0.01 \cdot (L - 20)$; $L = 27m$; $E2 = 0.00$; $E3 = 0.00$; $T = 0.1hr/day$ $PV \text{ Drain } I = (L + 0.40) \cdot (1 + a/100)$; $L = 27$; $a = 4$											
131,939,834										131,940	

Summary
 PVI nos
 REMARKS

1 US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT											
Process Cost							Trimming of Slope		W>3m Bulldozer 15t		
										Unit: 100 m ²	
										Sheet #: PC 120000	
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Foreman	Local	M/day	0.20	0	0.00	146,592	0.00	29,278	0.00	L 101000
2	Common Labor	Local	M/day	1.10	0	0.00	58,671	0.00	64,538	0.00	L 103000
3	Bulldozer	15t	hr	1.40	0	0.00	204,440	0.00	286,216	0.00	EL 102000
Summary											
per m ²											
REMARKS											
										380,032	
										3,800	

1US\$=108JP Yen=14,100VND

No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Foreman	Local 1*0.1	M/day	0.10	0	0.00	146,392	0.00	14,639	L 101000
2	Common Labor	Local 1*0.7	M/day	0.70	0	0.00	58,671	0.00	41,070	L 103000
3	Backhoe	0.6m ³ 1*2.6	hr	2.60	0	0.00	176,462	0.00	458,801	EL 101000
Summary										
Per m ²										
										514,510
										5,145

REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost Loading, Transportation (L = 0.5 km) Unit: 100 m³ Sheet #: PC 135200

No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Backhoe	1*100/D	day	0.19	0	0.00	1,391,240	0.00	264,336	EL 101610
2	Dump Truck for Loading, Transportation	1*0.6	day	0.60	0	0.00	642,571	0.00	385,543	EL 113001
Summary										
									649,879	
									6,499	

per m³
 REMARKS
 Loading Capacity D=520m³/day
 T=0.6 day
 Volume is indicated in ground soil volume

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT												
Asphalt Concrete Production												
Process Cost												
Unit: 10												
Sheet # PC 150830												
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Skilled Labor	Local	M/day	0.21	0	0.00	118,898	0.00	24,969	0.00	104000	L
2	Common Labor	Local	M/day	0.83	0	0.00	58,671	0.00	48,697	0.00	103000	L
3	Asphalt Plant	1*Q/(120*0.75)	hr	0.11	50,164	0.00	581,305	0.00	784,350	0.00	111700	EL
4	Bituminous Material		t	0.57	0	0.00	2,355,200	0.00	1,347,174	0.00	303010	M
5	Filler		t	0.76	0	0.00	272,727	0.00	208,254	0.00	103020	M
6	Sand for Asphalt Concrete	Tan Chau	m3	1.51	0	0.00	49,455	0.00	74,677	0.00	103030	M
7	Aggregate for Asphalt Concrete	Hoa An	m3	4.20	0	0.00	91,815	0.00	385,623	0.00	103040	M
Summary												
per 10												
REMARKS												
Q=120/(Maximum Capacity of Plant)*0.75												
2,873,744												
287,374												

CAN THO BRIDGE CONSTRUCTION PROJECT															Unit: 10		
Process Cost															Sheet #: PC		
Guss Asphalt Concrete Production															150040		
Guss Asphalt																	
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks						
					Foreign Currency (JP Yen)	Local Currency (VND)	Foreign Currency (US\$)	Local Currency (US\$)	Foreign Currency (US\$)	Local Currency (US\$)							
1	Skilled Labor	Local	M/day	0.21	0	118,898	0.00	24,969	0.00	L	104000						
2	Common Labor	Local	M/day	0.83	0	58,671	0.00	48,697	0.00	L	103000						
3	Asphalt Plant	1*Q/(120*0.75)	hr	0.11	50,164	591,305	0.00	784,350	0.00	EL	111700						
4	Bituminous Material		t	0.43	0	2,355,200	0.00	1,010,381	0.00	M	103010						
5	Nature Asphalt		t	0.14	0	2,355,200	0.00	336,794	0.00	M	109011						
5	Filler		t	0.76	0	272,727	0.00	208,254	0.00	M	103020						
6	Sand for Asphalt Concrete	Tan Chau	m3	1.51	0	49,455	0.00	74,677	0.00	M	103030						
7	Aggregate for Asphalt Concrete	Hoa An	m3	4.20	0	91,815	0.00	385,623	0.00	M	103040						
Summary											2,873,743						
Per l											287,374						
REMARKS																	

Q=120t/(Maximum Capacity of Plant)*0.75

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT												
Process Cost												
Improved Asphalt Concrete Production												
Unit: 10 0												
Sheet #: PC 150050												
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Skilled Labor	Local	M/day	0.21	0	0.00	118,898	0.00	24,969	104000	L	
2	Common Labor	Local	M/day	0.83	0	0.00	58,671	0.00	48,697	103000	L	
3	Asphalt Plant	120t/hr	hr	0.11	50,164	0.00	581,305	0.00	784,350	111700	EL	
4	Improved Asphalt		t	0.57	30,400	0.00	0	0.00	2,270,231	103012	M	
5	Filler		t	0.76	0	0.00	272,727	0.00	208,254	103020	M	
6	Sand for Asphalt Concrete	Tan Chau	m3	1.51	0	0.00	49,455	0.00	74,677	103050	M	
7	Aggregate for Asphalt Concrete	Hoa An	m3	4.20	0	0.00	91,815	0.00	385,623	103040	M	
Summary												
per												
REMARKS												
Q=120t/hr(Maximum Capacity of Plant)*0.75												

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Thickness 300mm

Unit: 1000

m2

Process Cost

Subbase Course (Carriageway)

Sheet #: PC

151000

No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Common Labor	Local	M/day	3.08	0	0.00	58,671	0.00	180,707	0.00	L 103000
2	Motorgrader	3.1m	day	1.54	0	0.00	814,491	0.00	1,254,316	0.00	EL 108020
3	Road Roller	Macadam 10t - 12t	day	1.54	0	0.00	648,080	0.00	998,043	0.00	EL 109020
4	Tire Roller	8t - 20t	day	1.54	0	0.00	755,045	0.00	1,162,769	0.00	EL 107030
5	Water Cart	5,500L - 6,500L	day	1.54	0	0.00	612,741	0.00	943,621	0.00	EL 110020
6	Aggregate for Subbase Course	Co To	m3	384.00	0	0.00	125,091	0.00	48,034,944	0.00	M 107210
Summary										52,574,400	
per m2										52,574	

D=1,300/2m2/day
K=0.28

REMARKS

1 US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost Base Course (Carriageway)

Thickness 300mm

Unit: 1000 m2
Sheet #: PC 152000

No.	Description	Specification	Unit	Quantity	Unit Price			Local Currency (VND)	Local Currency (US\$)	Combined Total Cost (VND)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)				
1	Common Labor	Local	M/day	3.33	0	0.00	58,671	0.00	195,374	L 103000	
2	Motorgrader	3.1m	day	1.67	0	0.00	814,491	0.00	1,360,200	EL 108020	
3	Road Roller	Macadam 10t - 12t	day	1.67	0	0.00	648,080	0.00	1,082,294	EL 109020	
4	Tire Roller	8t - 20t	day	1.67	0	0.00	755,045	0.00	1,260,925	EL 107030	
5	Water Cart	5,500L - 6,500L	day	1.67	0	0.00	612,741	0.00	1,023,277	EL 110020	
6	Aggregate for Base Course	Co To	m3	384.00	0	0.00	125,091	0.00	48,034,944	M 107110	
Summary											
per m2											
REMARKS											
D=1,200m2/2/day K=0.28											
52,957,014											
52,957											

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT											
Process Cost											
Asphalt Concrete Binder Course Hotlaid											
Thickness 100mm											
Unit: 100 m2											
Sheet #: PC 153000											
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Foreman	1*1*100/D	M/day	0.04	0	0.00	146,392	0.00	5,856	L	101000
2	Skilled Labor	1*3*100/D	M/day	0.12	0	0.00	118,898	0.00	14,268	L	104000
3	Common Labor	1*6*100/D	M/day	0.23	0	0.00	58,671	0.00	13,494	L	103000
4	Asphalt Finisher	Automatic Wheel type 3.0m - 1*1*100/D	day	0.04	0	0.00	1,293,132	0.00	51,725	EL	111010
5	Road Roller	Macadam 10t - 12t	day	0.04	0	0.00	648,080	0.00	25,923	EL	109000
6	Tire Roller	8t - 20t	day	0.04	0	0.00	755,045	0.00	30,202	EL	107000
7	Vibrating roller (Combined Type)	3-4t *	day	0.04	0	0.00	811,962	0.00	32,478	EL	114000
8	Dump Truck	2t	day	0.04	0	0.00	227,958	0.00	9,118	EL	112000
9	Asphalt Concrete Production	Coarse graded	100*0.10*2.3*(1+k)	1	24.84	552	178,831	0.00	6,232,340	FC	150010
Summary											
per m2											
REMARKS											
D=2,600m2/day											
k=0.08											
1 Layer											
6,415,404											
64,154											

1US\$=108JP Yen=14,100VND

CANTHO BRIDGE CONSTRUCTION PROJECT

Process Cost Prime Coat 200 l / 100m² Unit: 100 m² Sheet # PC 153010

No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)		Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)				
1	Bituminous Material (Prime Coat)	200 l / 100m ²	l	200.00	0	0.00	2,784	0.00	556,800	0	M 104000	
2	Miscellaneous Fee	4% of PCI54000							7,323			
Summary												
per m ²												
									564,123			
									5,641			

REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT										
Process Cost										
Asphalt Concrete Surface Course Hotlaid										
Thickness 50mm										
Unit: 100 m ²										
Sheet #: PC 154000										
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Foreman	Local 1*1*100/D	M/day	0.04	0	0.00	146,392	0.00	5,856	L 101000
2	Skilled Labor	Local 1*3*100/D	M/day	0.12	0	0.00	118,898	0.00	14,268	L 104000
3	Common Labor	Local 1*6*100/D	M/day	0.23	0	0.00	58,671	0.00	13,494	L 103000
4	Asphalt Finisher	Automatic Wheel type 3.0m - 1*1*100/D	day	0.04	0	0.00	1,293,132	0.00	51,725	EL 111010
5	Road Roller	Macadam 10t - 12t	day	0.04	0	0.00	648,080	0.00	25,923	EL 109000
6	Tire Roller	8t - 20t	day	0.04	0	0.00	755,045	0.00	30,202	EL 107000
7	Vibrating roller (Combined Type)	3-4t *	day	0.04	0	0.00	811,962	0.00	32,478	EL 114000
8	Dump Truck	2t	day	0.04	0	0.00	227,958	0.00	9,118	EL 112000
9	Asphalt Concrete Production	Fine graded	t	12.42	552	0.00	215,334	0.00	3,569,537	PC 150030
Summary										
BEI 1/12										
REMARKS										
D=2,600m ² /day										
k=0.08										
1 layer										
								3,752,601		
								37,526		

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT											
Process Cost											
Tack Cost											
601 / 100m2											
Unit: 100 m2											
Sheet #: PC 154010											
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)			
1	Bituminous Material (Tack Cost)	601 / 100m2	I	60.00	0	0.00	2,539	0.00	152,340	M	105000
2	Miscellaneous Fee	3% of PC154000							5,492		
Summary											157,832
per m2											1,578
REMARKS											

CAN THO BRIDGE CONSTRUCTION PROJECT											
Process Cost			Base Course (Shoulder & Pedestrian)			Thickness 150mm			Unit: 100 m ²		
No.		Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)		Remarks
						Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Common Labor	Local	1*2*100/D	M/day	0.17	0	0.00	58,671	0.00	9,974	L 103000
2	Motorgrader	3.1m	1*100/D	day	0.08	0	0.00	814,491	0.00	65,159	EL 108020
3	Road Roller	Macadam 10t - 12t	1*100/D	day	0.08	0	0.00	648,080	0.00	51,846	EL 109020
4	Tire Roller	8t - 20t	1*100/D	day	0.08	0	0.00	755,045	0.00	60,404	EL 107030
5	Water Cart	5,500L - 6,500L	1*100/D	day	0.08	0	0.00	612,741	0.00	49,019	EL 110020
6	Aggregate for Base Course	Co To	100*0.150*(1+K)	m ³	18.75	0	0.00	125,091	0.00	2,345,456	M 107110
Summary										2,581,858	
per m ²										25,819	

REMARKS
 D=1,200mm²/day
 k=0.25

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost

l=70mm

Asphalt Concrete Pavement (Bridge)

Unit: 100

m2

Sheet #: PC

158000

No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
1	Foreman	Local 1*100/D	M/day	0.04	0	0.00	146,392	0.00	5,856	L	101000
2	Skilled Labor	Local 1*3*100/D	M/day	0.12	0	0.00	118,898	0.00	14,268	L	104000
3	Common Labor	Local 1*6*100/D	M/day	0.23	0	0.00	58,671	0.00	13,494	L	103000
4	Asphalt Finisher	Automatic Wheel type 3.0m - 1*1*100/D	day	0.04	0	0.00	1,293,132	0.00	51,725	EL	111010
5	Road Roller	Macadam 10t - 12t 1*1*100/D	day	0.04	0	0.00	648,080	0.00	25,923	EL	109000
6	Tire Roller	8t - 20t 1*1*100/D	day	0.04	0	0.00	755,045	0.00	30,202	EL	107000
7	Vibrating roller (Combined Type)	3-4t 1*1*100/D	day	0.04	0	0.00	811,962	0.00	32,478	EL	114000
8	Dump Truck	2t 1*1*100/D	day	0.04	0	0.00	227,958	0.00	9,118	EL	112000
9	Asphalt Concrete Production	Fine graded 100*0.07*2.3*(1+k)	t	17.39	552	0.00	215,334	0.00	4,997,861	PC	150050
Summary									5,180,925		
per m2	REMARKS										
D=2,600m2/day k=0.08 1 layer											

CAN THO BRIDGE CONSTRUCTION PROJECT		Steel Surface Treatment							Unit: 100 m ²	
Process Cost		Guss Asphalt Pavement							Sheet #: PC 158010	
No.	Description	Specification	Unit	Quantity	Unit Price			Local Currency (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Skilled Labor	Local	M/day	0.63	0	0.00	118,898	0.00	74,906 L	104000
2	Miscellaneous Fee								2,247	
Summary									77,153	
per m ²		D=630m2/day						772		
REMARKS										

No.	Description	Specification	Unit	Quantity	Unit Price				Local Currency (VND)	Local Currency (US\$)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)			
1	Common Labor	Local	M/day	0.63	0	0.00	58,671	0.00		36,963 L 103000	
2	Miscellaneous Fee	1% of above								370	
1	Bond for Guss Asphalt Pavement on Steel Slab	42 / 100m2		42.00	422	0.00	0	0.00		2,313,967 M 129960	
Summary											
										2,351,299	
per m2										23,513	

REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT												
Process Cost				Pavement 40mm			Unit: 100 m2		Sheet #: PC 158040			
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost (VND)			Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
1	Foreman	Local 1*1*100/D	M/day	0.16	0	0.00	146,392	0.00	23,423	0.00	101000	L
2	Skilled Labor	Local 1*5*100/D	M/day	0.78	0	0.00	118,898	0.00	92,740	0.00	104000	L
3	Common Labor	Local 1*9*100/D	M/day	1.41	0	0.00	58,671	0.00	82,726	0.00	103000	L
4	Guss Asphalt Finisher	Automatic Wheel type 2.5m - 1*1*100/D	day	0.16	134,824	0.00	253,335	0.00	2,856,878	0.00	111611	EL
		3% of above							91,673			
5	Guss Asphalt Concrete Production	Guss Asphalt	t	9.66	552	0.00	215,334	0.00	2,776,248	0.00	150040	PC
Summary											5,923,689	
per m2												
REMARKS		k=0.05 t=40mm										
											59,237	

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost Improved Asphalt Pavement

Pavement: 40mm

Unit: 100

m2

Sheet #: PC 158050

No.	Description	Specification	Unit	Quantity	Unit Price				Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)		
Combined Total Cost (VND)										
68,155										
1	Foreman	1*1*100/D	M/day	0.16	0	0.00	146,392	0.00	23,423 L	101000
2	Skilled Labor	1*5*100/D	M/day	0.78	0	0.00	118,898	0.00	92,740 L	104000
3	Common Labor	1*9*100/D	M/day	1.41	0	0.00	58,671	0.00	82,726 L	103000
4	Guss Asphalt Finisher	Automatic Wheel type 2.5m - 1*1*100/D	day	0.16	134,824	0.00	253,335	0.00	2,856,878 JEL	111611
		3% of above								
5	Improved Asphalt Concrete Production	100*1*(1+K)*2.3		9.66	2,291	0.00	80,616	0.00	3,668,076 PC	150050
Summary										
per m2										
REMARKS										

k=0.05
t=40mm

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT Concrete Pavement Unit: 100 m² Sheet #: PC 158070

No.	Description	Specification	Unit	Quantity	Unit Price				Local Currency (VND)	Local Currency (US\$)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)			
1	Foreman	Local	M/day	1.56	0	0.00	146,392	0.00	228,372 L	101000	
2	Skilled Labor	Local	M/day	4.85	0	0.00	118,898	0.00	576,655 L	104000	
3	Common Labor	Local	M/day	9.23	0	0.00	58,671	0.00	541,533 L	103000	
4		14% of above							188,518		
5	Concrete Production Class - D	300kg/cm ²	m ³	25.75	565	0.00	355,059	1.82	11,703,089 PC	211300	
6	Concrete Transportation	Truck Mixer (2.0km)	m ³	25.75	300	0.00	8,849	0.00	1,236,404 PC	251500	
7	Filler		m ²		0	0.00	272,727	0.00	0 M	103020	
8	ReBar	D10-D14 SD390	m		0	0.00	0	250.40	0 M	124001	
9	Asphalt joint filler	20mm thick	m ²		1,312	0.00	0	0.00	0 M	116710	
Summary											
										14,474,571	
										144,746	

Process Cost: Concrete Pavement Unit: 100 m² Sheet #: PC 158070

REMARKS
k=0.03
t=250mm

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT										nos	
Process Cost										Unit: 100	
Production of Concrete Block										Sheet #: PC	
for Slope Protection										191110	
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost		Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	(VND)		
1	Concrete Production Class - E	240kg/cum	m3		565	0.00	334,674	0.83	0	0 PC	211400
2	Concrete Placing (Small Structure)	Man Power	m3		0	0.00	40,020	0.00	0	0 PC	223200
3	Curing (Small Structure)	Normal	m3		0	0.00	5,036	0.00	0	0 PC	231300
4	Form Work for Concrete	H<4m	m2		0	0.00	32,002	0.00	0	0 PC	241100
Summary											
											0
											0
REMARKS											
k=0.06											

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost Production of Median Barrier

Unit: 100 dos

Sheet # PC 191120

No.	Description	Specification	Unit	Quantity	Unit Price				Combined Total Cost (VND)		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)			
1	Concrete Production Class - E	240kg/cm ²	m ³	91.58	565	0.00	334,674	0.83	38,476,522	PC 211,400	
2	Concrete Placing (Small Structure)	V*(1+k)*100 Man Power V*(1+k)*100	m ³	91.58	0	0.00	40,020	0.00	3,665,032	PC 223,200	
3	Curing (Small Structure)	V*100	m ³	86.40	0	0.00	5,036	0.00	435,110	PC 231,300	
4	Form Work for Concrete	H<4m	m ²	468.40	0	0.00	32,002	0.00	14,989,737	PC 241,100	
5	Concrete Transportation	Truck Mixer (0.3km)	m ³	91.58	159	0.00	4,685	0.00	2,330,071	PC 251,100	
6	Rebar Fabrication	D10 - D14	t	1.92	0	0.00	456,771	257.91	7,859,179	PC 201,100	
7	Rebar Fabrication	D10 - D14	t	0.07	0	0.00	456,771	257.91	286,479	PC 201,100	
Summary									68,042,131		
per nos									680,421		

k=0.06

Unit Length is 2m

REMARKS

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost

D500mm

Unit: 100 nos

Sheet #: PC 191150

No.	Description	Specification	Unit	Quantity	Unit Price				Local Currency (VND)	Local Currency (US\$)	Combined Total Cost (VND)	Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Foreign Currency (US\$)	Local Currency (US\$)				
(RC Pipe)												
1	Concrete Production Class - D	300kg/cm ²	m ³	47.17	565	0.00	355,059	1.82	21,438,054	PC	211300	
2	Concrete Placing (Small Structure)	Man Power	m ³	47.17	0	0.00	40,020	0.00	1,887,743	PC	223200	
3	Curing (Small Structure)	Normal	m ³	44.50	0	0.00	5,036	0.00	224,102	PC	231300	
4	Form Work for Concrete	H<4m	m ²	1,593.20	0	0.00	32,002	0.00	50,985,586	PC	241100	
5	Rebar Fabrication	D10 - D14	t	4.27	0	0.00	456,771	257.91	17,478,460	PC	201100	
Summary										92,013,945		
per nos										920,139		
REMARKS												

k=0.06

CAN THO BRIDGE CONSTRUCTION PROJECT

Process Cost Production of Catch Basin Type B Unit: I (D500mm) nos

No.	Description	Specification	Unit	Quantity	Unit Price				Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	
(Catch Basin)									
1	Concrete Production Class - E	240kg/cm2 V*(1+k)	m3	1.83	565	0.00	334,674	0.83	768,879 PC 211400
2	Concrete Placing (Small Structure)	Man Power V*(1+k)	m3	1.83	0	0.00	40,020	0.00	73,237 PC 223200
3	Curing (Small Structure)	Normal V	m3	1.73	0	0.00	5,036	0.00	8,712 PC 231500
4	Form Work for Concrete	H<4m A	m2	16.84	0	0.00	32,002	0.00	538,914 PC 241100
(Concrete Cover)									
5	Concrete Production Class - E	240kg/cm2 V*(1+k)	m3	0.06	565	0.00	334,674	0.83	25,224 PC 211400
6	Concrete Placing (Small Structure)	Man Power V*(1+k)	m3	0.06	0	0.00	40,020	0.00	2,401 PC 223200
7	Curing (Small Structure)	Normal V	m3	0.06	0	0.00	5,036	0.00	302 PC 231500
8	Form Work for Concrete	H<4m A	m2	0.15	0	0.00	32,002	0.00	4,800 PC 241100
9	Rebar Fabrication	D10 - D14	t	13.71	0	0.00	456,771	257.91	56,119,225 PC 201100
10	Rebar Fabrication	D16 - D25	t	0.63	0	0.00	383,279	257.91	2,532,434 PC 201200
Summary									
per nos	60,074,128								
REMARKS	60,074,128								

CAN THO BRIDGE CONSTRUCTION PROJECT		Production of C Cover for U-Shaped Gutter		Unit: 100 m		Sheet #: PC		191182		
Process Cost		400*250								
No.	Description	Specification	Unit	Quantity	Unit Price			Combined Total Cost		Remarks
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (VND)	Local Currency (US\$)	(VND)	
1	Concrete Production Class - E	240kg/cm ²	m ³		565	0.00	334,674	0.83	0	PC 211400
2	Concrete Placing (Small Structure)	Man Power	m ³		0	0.00	40,020	0.00	0	PC 223200
3	Curing (Small Structure)	Normal	m ³		0	0.00	5,036	0.00	0	PC 231300
4	Form Work for Concrete	H<4m	m ²		0	0.00	32,002	0.00	0	PC 241100
5	Rebar Fabrication	D10 - D14	t		0	0.00	456,771	257.91	0	PC 201100
6	Rebar Fabrication	D16 - D25	t		0	0.00	383,279	257.91	0	PC 201200
Summary										
per m										
REMARKS										
k=0.06										
0										
0										

1US\$=108JP Yen=14,100VND

CAN THO BRIDGE CONSTRUCTION PROJECT		Production of U-Shape Gutter		Unit: 100	Unit: 100		Sheet #: PC		Date: 10/1/00			
No.	Description	Specification	Unit	Quantity	Unit Price			Local Currency (VND)	Local Currency (US\$)	Combined Total Cost (VND)	Remarks	
					Foreign Currency (JP Yen)	Foreign Currency (US\$)	Local Currency (US\$)					
1	Concrete Production Class-B	240kg/cm2	m3		565	0.00	334,674	0.83		0	PC	
2	Concrete Placing (Small Structure)	Man Power	m3		0	0.00	40,020	0.00		0	PC	
3	Curing (Small Structure)	Man Power	m3		0	0.00	5,036	0.00		0	PC	
4	Form Work for Concrete	11-4m	m2		0	0.00	32,002	0.00		0	PC	
5	Rebar Fabrication	D10 - D14	t		0	0.00	456,771	257.91		0	PC	
6	Rebar Fabrication	D16 - D25	t		0	0.00	363,279	257.91		0	PC	
Summary												
PC											0	
REMARKS											0	

k=0.06

