

Detailed Design Study of Cai Mep-Thi Vai International Terminals

Cai Mep International Container Terminal

Building Works

4. Building Works

3)Mechanical Works

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals	
Package	Package 1 : Cai Mep International Container Terminal	
Division	Division 4	Building Works
Sub-Section	PAC1 - 4 - C	Operation building

Item of Work	PAC1 - 4 - C.b	Mechanical Works
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
4-C.b	Mechanical Works			
4-C.b	Mechanical Works			
4-C.b-1	Air conditioning and ventilation works			
	Supply, lay and joint or fix following			
	as shown on the drawing			
	and as specified			
4-C.b-1-1	Air cooled packaged A/C			
	a) AC-1 cooling capacity 3.6KW	no.	4.00	
	b) AC-2 cooling capacity 4.0KW	no.	2.00	
	c) AC-3 cooling capacity 4.5KW	no.	10.00	
	d) AC-5 cooling capacity 5.6KW	no.	2.00	
	e) AC-6 cooling capacity 7.1KW	no.	2.00	
	f) AC-7 cooling capacity 10.0KW	no.	1.00	
4-C.b-1-2	Drain pipe			
	a) 25 mm Dia.	l.m.	104.00	
	b) 40 mm Dia.	l.m.	32.00	
	c) 50 mm Dia.	l.m.	26.00	
4-C.b-1-3	Refrigerent copper pipe			
	a) 15.9mm Dia.	l.m.	109.00	
	b) 9.5mm Dia.	l.m.	109.00	
	c) 12.7mm Dia.	l.m.	465.00	
	d) 6.4mm Dia.	l.m.	465.00	
4-C.b-1-4	Insulation materials			
	a) For refrigerent pipe			
	i) A type (indoor)	l.m.	85.40	
	ii) A type (outdoor)	l.m.	23.10	
	iii) B type (indoor)	l.m.	338.00	
	iv) B type (outdoor)	l.m.	128.00	
	b) For drain pipe			
	i) 25 mm Dia.	l.m.	104.00	
	ii) 40 mm Dia.	l.m.	32.00	
	iii) 50 mm Dia.	l.m.	26.00	
4-C.b-1-5	Flexible joint rubber material			
	50mm dia.	no.	4.00	
4-C.b-1-6	Ventilation fan			
	a) Ceiling fan			
	i) (150Φ x 170m ³ /h x 50Pa) + VC150Φ	no.	4.00	
	b) Sirocco fan (straight type)			
	i) (200Φ x 1200m ³ /h x 100Pa) + VC200Φ	no.	1.00	
	ii) (250Φ x 650m ³ /h x 100Pa) + VC200Φ	no.	6.00	
	c) Sirocco fan (ground type)			
	(#2 x 3200m ³ /h x 250Pa) +			
	accessories: conc. Foundation	no.	1.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
Dang Manh Cuong	15-Sep-05	1	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals	
Package	Package 1 : Cai Mep International Container Terminal	
Division	Division 4	Building Works
Sub-Section	PAC1 - 4 - C	Operation building

Item of Work	PAC1 - 4 - C.b	Mechanical Works
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit		Remarks
4-C.b-1-7	Ventilate duct			
	a) 150Φ	l.m.	14.00	
	b) 200Φ	l.m.	47.90	
4-C.b-1-8	Control cables	l.m.	574.00	
4-C.b-1-9	Natural ventilation set			
	Inlet VC 150mm dia.	no.	15.00	
4-C.b-2	Plumbing works			
	Supply, lay and joint or fix following			
	as shown on the drawing			
	and as specified			
4-C.b-2-1	Plumbing fixtures			
	Water closet (CS430 TC290) - low tank (SS431 BABL)	no.	3.00	
	Wall hung Urinal (UFH557)	no.	3.00	
	Partition plate (A100)	no.	2.00	
	Counter mounted lavatory (L517CU TS11A)	no.	4.00	
	Liquid soap holder (TS125R)	no.	4.00	
	Mirror (TS119ASR3)	no.	4.00	
	Slop sink (SK22 AE20)	no.	4.00	
	Swing faucet (T130R13)	no.	3.00	
	Sink (built in) 600x500x180	no.	1.00	
	Hand shower (TBH19C1 TBH9)	no.	1.00	
4-C.b-2-2	Sewage and drainage			
	FJ 150	no.	8.00	
	FJ 100	no.	13.00	
	FJ 65	no.	2.00	
	pipe 150 Φ	l.m.	34.00	
	pipe 100 Φ	l.m.	164.40	
	pipe 80 Φ	l.m.	14.30	
	pipe 75 Φ	l.m.	22.80	
	pipe 65 Φ	l.m.	47.20	
	pipe 50 Φ	l.m.	97.30	
	pipe 40 Φ	l.m.	21.20	
	T-5A 65	no.	1.00	
	T-5A 50	no.	1.00	
	COA 100	no.	7.00	
	COA 65	no.	2.00	
	COA 50	no.	5.00	
	T-5B 80	no.	1.00	
	T-5B 50	no.	10.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
Dang Manh Cuong	15-Sep-05	2	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals	
Package	Package 1 : Cai Mep International Container Terminal	
Division	Division 4	Building Works
Sub-Section	PAC1 - 4 - C	Operation building

Item of Work	PAC1 - 4 - C.b	Mechanical Works
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
	COB 100	no.	10.00	
	COB 80	no.	1.00	
	COB 65	no.	5.00	
	COB 50	no.	5.00	
4-C.b-2-3	Water supply			
	Tank 1m3	no.	1.00	
	pipe 80 Φ	l.m.	15.20	
	pipe 50 Φ	l.m.	20.40	
	pipe 40 Φ	l.m.	35.20	
	pipe 25 Φ	l.m.	53.30	
	pipe 20 Φ	l.m.	228.10	
	GV25 w/ BOX	no.	1.00	
	FJ 25 x 1000L w/conc. Box	no.	2.00	
	FJ 40	no.	2.00	
	GV65	no.	1.00	
	GV50	no.	1.00	
	GV40	no.	5.00	
	GV25	no.	3.00	
	BT40	no.	1.00	
	BT25	no.	1.00	
4-C.b-2-4	Gas systems			
	gas pipe 20 Φ	l.m.	29.20	
	Gas cock 9.5mm	no.	7.00	
4-C.b-2-5	Ventilation			
	VC 150	no.	1.00	
	VC 100	no.	3.00	
	VC 65	no.	1.00	
	Pipe 150 Φ	l.m.	5.10	
	Pipe 100 Φ	l.m.	22.60	
	Pipe 65 Φ	l.m.	46.70	
	Pipe 50 Φ	l.m.	34.30	
	Wall mounting Fan 250Φ x 300m3/h x 30Pa	no.	1.00	
4-C.b-2-6	Fire hydrant			
	Pump 50Φ x 300Lit/min x 45m - 5.5 kW	no.	2.00	
	Fire hydrant Box	no.	7.00	
	Pipe 65 Φ	l.m.	7.40	
	Pipe 50 Φ	l.m.	36.40	
	FV65	no.	2.00	
	CV65	no.	2.00	
	GV65	no.	2.00	
	FJ65	no.	4.00	
	FJ 65 x 1000L w/conc. Box	no.	2.00	
	GV65 w/ BOX	no.	1.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
Dang Manh Cuong	15-Sep-05	3	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	Dang Manh Cuong
Division / Item	Division 4 : Building Works / C	Checked by	N. Yaegashi
Item of Work	Operation building	Date	15-Sep-05

ITEM NO.	DESCRIPTION	Unit				
4-C.b-2	Plumbing works					
	Supply, lay and joint or fix following					
	as shown on the drawing					
	and as specified					
4-C.b-2-1	Plumbing fixtures					
	Water closet (CS430 TC290) - low tank (SS431 BABL)	no.	3.00	3.00		
	Wall hung Urinal (UFH557)	no.	3.00	3.00		
	Partition plate (A100)	no.	2.00	2.00		
	Counter mounted lavatory (L517CU TS11A)	no.	4.00	4.00		
	Liquid soap holder (TS125R)	no.	4.00	4.00		
	Mirror (TS119ASR3)	no.	4.00	4.00		
	Slop sink (SK22 AE20)	no.	4.00	4.00		
	Swing faucet (T130R13)	no.	3.00	3.00		
	Sink (built in) 600x500x180	no.	1.00	1.00		
	Hand shower (TBH19C1 TBH9)	no.	1.00	1.00		
4-C.b-2-2	Sewage and drainage					
	FJ 150	no.	8.00	8.0		
	FJ 100	no.	13.00	13.0		
	FJ 65	no.	2.00	2.0		
	pipe 150 Φ	l.m.	34.00	34.0		
	pipe 100 Φ	l.m.	164.40	164.4		
	pipe 80 Φ	l.m.	14.30	14.3		
	pipe 75 Φ	l.m.	22.80	22.8		
	pipe 65 Φ	l.m.	47.20	47.2		
	pipe 50 Φ	l.m.	97.30	97.3		
	pipe 40 Φ	l.m.	21.20	21.2		
	T-5A 65	no.	1.00	1.0		
	T-5A 50	no.	1.00	1.0		
	COA 100	no.	7.00	7.0		
	COA 65	no.	2.00	2.0		
	COA 50	no.	5.00	5.0		
	T-5B 80	no.	1.00	1.0		
	T-5B 50	no.	10.00	10.0		
	COB 100	no.	10.00	10.0		
	COB 80	no.	1.00	1.0		
	COB 65	no.	5.00	5.0		
	COB 50	no.	5.00	5.0		
4-C.b-2-3	Water supply					
	Tank 1m3	no.	1.00	1.0		
	pipe 80 Φ	l.m.	15.20	15.2		
	pipe 50 Φ	l.m.	20.40	20.4		
	pipe 40 Φ	l.m.	35.20	35.2		
	pipe 25 Φ	l.m.	53.30	53.3		
	pipe 20 Φ	l.m.	228.10	228.1		
	GV25 w/ BOX	no.	1.00	1.0		
	FJ 25 x 1000L w/conc. Box	no.	2.00	2.0		
	FJ 40	no.	2.00	2.0		
	GV65	no.	1.00	1.0		
	GV50	no.	1.00	1.0		
	GV40	no.	5.00	5.0		
	GV25	no.	3.00	3.0		
	BT40	no.	1.00	1.0		
	BT25	no.	1.00	1.0		

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	D.M. Cuong
Division / Item	Division 4 : Building Works / C	Checked by	N. Yaegashi
Item of Work	Operation building	Date	15-Sep-05

DESCRIPTION	LOCAL	LENGTH (QUANTITY)																SUM	TOTAL		
		Ground		height	first floor	height	2nd floor		height	roof			height	3rd floor		height					
A (gas, liquid)	1	1.5	11.5	5.5	0.5			4					6.7	7.7	8.7					46.1	108.5
	2	5.3	11.7	5.8	0.5			4												27.3	
	3	13.6	11	6	0.5			4												35.1	
A (drain 25Ø)	1	4.3	3.7	0.4																8.4	17.3
	2	3.7																		3.7	
	3	1.8	3.4																	5.2	
B (gas, liquid)	1	1	1.5		0.5	0.8	10.5	36	0.8	10.8		16	11.6	10.4	12.4	16	1.9	11		141.2	465.2
	2	2	5.4		0.5	6	10.5		4	10.2			17.6	14.4	16.4		1	10.3		98.3	
	3	2.5	17.6		0.5	16.3	11.6		9.8	9.6	1.2		5.7	6.7	16.4		1.2	9.8	4	112.9	
	4	2.1	21.5		0.5	3	4.5		3	9.4	10.4						6.8	9	3.8	74	
	5					3.2	9.1		7.7	8.6	10.2										
B (drain 25Ø)	1	0.7	1.8			4.8	3.5		1.2	4.6	1						1.4	5.5		24.5	87.1
	2	1.5	4.3			0.3			0.3	2.6							0.2	1.5		10.7	
	3	0.9	5			5	2.7		0.4	3.2							1.5	3.5		22.2	
	4	0.4				13.6	0.5		0.9	2.8							0.4	5.7		24.3	
	5					0.4			0.2	4.8											
Drain 40Ø	4, 3				16			12								4				32	32
200Ø	toilet M	5.5				1.6	9.2		5.5								4.5			26.3	47.9
	toilet W	2	5.2			2	5.2		2	5.2										21.6	
150Ø	kitchen	2				1.5			1.2								4.9			9.6	14
	toilet M					2.2	2.2													4.4	
Drain 50Ø	1	7			0.5															7.5	26
	2	7			0.5															7.5	
	3	5			0.5															5.5	
	4	5			0.5															5.5	
FJ 50		4																		4	4
Inlet VC150		6				4			3								2			15	15

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	D.M. Cuong
Division / Item	Division 4 : Building Works / C	Checked by	N. Yaegashi
Item of Work	Operation building	Date	15-Sep-05

DESCRIPTION	LOCAL	LENGTH (QUANTITY)																	SUM	TOTAL	
		Pump	Ground		height	1st floor			height	2nd floor			height	3rd floor		height	roof	height			
		floor	toilet 1	toilet 2		fl.+kitch.	toilet 1	toilet 2		floor	toilet 1	toilet 2		floor	toilet 1		PH	4 fl.			
Pipe 150 dia.	1-->5	12.5																		12.5	34
	6	9.5																		9.5	
	7	9.5																		9.5	
	8	2.5																		2.5	
Pipe 100 dia.	1	2.8	2.5	5.8	4.5	5.7	4.3	3.3	4.5			3.3	4.5		2					43.2	164.4
	2	2.8	4.4	6.3	4.5			3.3	4.5		4.4	3.3	4.5		2.3					40.3	
	3	2.8	2.2	7.8	4.5			3.3	4.5		2.2	3.5								30.8	
	4	4.5	2.3		4.5			3.5	4.5		2.3									21.6	
	5	9			4.5															13.5	
	6	8.5																		8.5	
	7	6.5																		6.5	
Pipe 80 drain	1					3.4		2.3							4.6					10.3	14.3
	2							4												4	
Pipe 80 supply.	1															4.5	1.5	6.2	3	15.2	15.2
Pipe 75 dia.	1		1.3	2.2			1.3	1.3			1.3	1.3			1.5					10.2	22.8
	2		1.1	2			1.3	1.3			1.1	1.3			1					9.1	
	3		1.1					1.3			1.1									3.5	
Pipe 65 (drain)	1	2.8	4.4	7.3		3.5	2.3				4.4		4.5		2.2					31.4	47.2
	2	6.5	2.2				2.4				2.2									13.3	
	3						2.5													2.5	
	4																			0	
Pipe 65 (vent.)	1		3	3.1	4.5			1.3	4.5		3	1.3	4.5		2.5					27.7	38.4
	2				4.5				4.5			1.7								10.7	
	3																			0	

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	D.M. Cuong
Division / Item	Division 4 : Building Works / C	Checked by	N. Yaegashi
Item of Work	Operation building	Date	15-Sep-05

DESCRIPTION	LOCAL	LENGTH (QUANTITY)																	SUM	TOTAL	
		Pump	Ground	height	1st floor		height	2nd floor		height	3rd floor		height	roof		height					
		floor	toilet 1	toilet 2	height	fl.+kitch.	toilet 1	toilet 2	height	floor	toilet 1	toilet 2	height	floor	toilet 1	height	PH	4 fl.	height		
Pipe 50 (drain)	1		2.2	2.8	4.5	1.1		3	4.5		2.2	3	4.5		6.9					34.7	97.3
	2			2.8		4.7		1.7	4.5			5.2			1					19.9	
	3			2.5		1.9		1.8				1.7								7.9	
	4			2.5		1.9		1.8				1.8								8	
	5			2.5		1.9		2.1				1.8								8.3	
	6			3.7		1.6		2.6				2.1								10	
	7			2.4				2.6												5	
	8							3.5												3.5	
Pipe 50 (vent.)			2	0.9			3.7	4.8			2	1.9			1.8					17.1	32.6
				0.9			2.5	4.2			1.3	1.2			5.4					15.5	
Pipe 50 (supply)	1													14	6.4					20.4	20.4
Pipe 40 (supply)	1			1.2	4.5	1.9	3.3						4.5			4.5	4.7	3		27.6	35.2
	2				4.5		3.1													7.6	
Pipe 40 (drain)	1		1.6			0.9	1.6	1.6			1.6	1.6			1.9					10.8	21.2
	2		1.6				1.6	1.6			1.6	1.6			2.4					10.4	
Pipe 25 dia.	1	23	9		4.8	4.5	3.2					1.1								46.7	53.3
	2	2.2			0.9															3.1	
	3	3.5																		3.5	
Pipe 20 dia.	1			5	6.5		5.3	2.4	13.3			5	11.4		8.7					57.6	228.1
	2			3.8	13.3		2.7	11.1	12			3.8	12		10.2					68.9	
	3			6.6	2.8		3	4.6	9.9			6.6	9.9		10.5					53.9	
	4			5.4	1.8		7.1		4			5.4	4							27.7	
	5						2.4		3.5											5.9	
	6						3.7		10.4											14.1	

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	D.M. Cuong
Division / Item	Division 4 : Building Works / C	Checked by	N. Yaegashi
Item of Work	Operation building	Date	15-Sep-05

DESCRIPTION	LOCAL	LENGTH (QUANTITY)																SUM	TOTAL					
		Pump	Ground	height	1st floor		height	2nd floor		height	3rd floor		height	roof	height									
			floor	toilet 1	toilet 2		fl.+kitch.	toilet 1	toilet 2		floor	toilet 1	toilet 2		floor	toilet 1		PH	4 fl..					
Gas pipe 20dia.	1				4.7		9.9		4.7				4.7				5.2						29.2	29.2
GC 9.5					1		3		1				1				1						7	7
GV25 / BOX	2	1																					1	1
FJ 25 x 1000L	2	1	1																				2	2
GV65																			1				1	1
GV50																	1						1	1
GV40								1	1				1				1		1				5	5
GV25		1		1									1										3	3
BT40																			1				1	1
BT25		1																					1	1
FJ 40																			2				2	2
T-5A 65				1																			1	1
T-5A 50					1																		1	1
COA 100				3	2							1					1						7	7
COA 65					1												1						2	2
COA 50				1	1							1	1										5	5
T-5B 80							1																1	1
T-5B 50							1	2	4			1	1				1						10	10
COB 100							1	1	4				3				1						10	10
COB 80																	1						1	1
COB 65							1	2					2										5	5
COB 50								1	2				1				1						5	5

Detailed Design Study of Cai Mep-Thi Vai International Terminals

Cai Mep International Container Terminal

Building Works

4. Building Works

4)Electrcal Works

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals	
Package	Package 1 : Cai Mep International Container Terminal	
Division	Division 4	Building Works
Sub-Section	PAC1 - 4 - C	Operation Building

Item of Work	PAC1 - 4 - C.c	Electrical Works
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
4-C	Operation Building			
4-C.c	Electrical Works			
4-C.c-1	Main Feeder Line System (Include exterior cable installation)			
4-C.c-1-1	Supply, install and test following cables and wires c/w terminal and miscellaneous materials. PVC/PVC Cables 2.5mmsq-3C to 25mmsq-3C and PVC wires 6mmsq to 16mmsq	l.m.		
4-C.c-1-1-1	a)25mmsq-3C	l.m.	10.00	
4-C.c-1-1-2	b)PVC/PVC Cables 6mmsq-3C	l.m.	10.00	
4-C.c-1-1-3	c)PVC/PVC Cables 16mmsq-3 1/2 C	l.m.	14.00	
4-C.c-1-1-4	d)PVC/PVC Cables 10mmsq-3 1/2 C	l.m.	33.00	
4-C.c-1-1-5	e)PVC/PVC Cables 6mmsq-4 C	l.m.	101.00	
4-C.c-1-1-6	f)PVC/PVC Cables 2.5mmsq-4 C	l.m.	25.00	
4-C.c-1-1-7	g)PVC/PVC Cables 2.5mmsq-3 C	l.m.	23.00	
4-C.c-1-1-8	h)PVC wires 16mmsq	l.m.	12.00	
4-C.c-1-1-9	i)PVC wires 10mmsq	l.m.	10.00	
4-C.c-1-1-10	j)PVC wires 6mmsq	l.m.	33.00	
4-C.c-1-2	Supply, install and test following plastic conduits c/w joints, accessories, supporting and miscellaneous materials. VE 16mm dia to 28mm dia	l.m.		
4-C.c-1-2-1	a) VE 28mm dia	l.m.	51.00	
4-C.c-1-2-2	b) VE 16mm dia	l.m.	2.00	
4-C.c-1-3	Supply, install and test flexible plastic conduits c/w joints, accessories, supporting and miscellaneous materials. FEP 30mm dia to 150mm dia	l.m.		
4-C.c-1-3-1	a)FEP 150mm dia	l.m.	13.00	
4-C.c-1-3-2	b)FEP 100mm dia	l.m.	26.00	
4-C.c-1-3-3	c)FEP 50mm dia	l.m.	25.00	
4-C.c-1-3-4	d)FEP 30mm dia	l.m.	48.00	
4-C.c-1-4	Supply and install following steel cable ladders c/w joints, accessories, supporting and miscellaneous materials. 400mm width	l.m.	17.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	1	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals		
Package	Package 1 : Cai Mep International Container Terminal		
Division	Division 4	Building Works	
Sub-Section	PAC1 - 4 - C	Operation Building	

Item of Work	PAC1 - 4 - C.c	Electrical Works		
4-C.c-1-5	Supply and install following hot dip galvanized metal pull boxes c/w supporting materials.			
	300*300*200	no.	1.00	
4-C.c-1-6	Supply and install following concrete handhole with. 600mm dia cast iron cover.			
	1000*1000*1300	no.	1.00	
4-C.c-1-7	Supply, install and test grounding works. grounding resistance 100 ohm	ls	1.00	
4-C.c-1-8	Excavation, back filling and compaction of soil	cu.m		
4-C.c-1-8-1	Excavation soil	cu.m	47.00	
4-C.c-1-8-2	Filling soil and compaction	cu.m	47.00	
4-C.c-2	Power Wiring system			
4-C.c-2-1	Supply, install and test following power distribution switch board and Control Panel c/w supporting materials. Wall mounted type			
4-C.c-2-1-1	a)P-OPBC-2	no.	1.00	
4-C.c-2-1-2	b)PC-OPBC-R	no.	1.00	
4-C.c-2-2	Supply, install and test following receptacles c/w boxes, supporting and miscellaneous materials.			
	15A 3 Pin, 20A 4 Pin and 15A 3 Pin*4(table tap)	no.		
4-C.c-2-2-1	a)15A 3 Pin (Floor mounted) Double	no.	10.00	
4-C.c-2-2-2	b)15A 3 Pin (Wall mounted) Single	no.	26.00	
4-C.c-2-2-3	c)15A 3 Pin (Wall mounted) Double	no.	71.00	
4-C.c-2-2-4	d)20A 4 Pin (Wall mounted) Single	no.	2.00	
4-C.c-2-2-5	e)15A 3 Pin*4 (Table Tap with Cable and Plug)	no.	52.00	
4-C.c-2-3	Supply, install and test following cables and wires c/w terminal and miscellaneous materials.			
	PVC/PVC Cables 2.5mmsq-4C to 4mmsq-3C and PVC wires 2.5mmsq to 4mmsq	l.m.		
4-C.c-2-3-1	a)PVC/PVC Cables 4mmsq-3C	l.m.	256.00	
4-C.c-2-3-2	b)PVC/PVC cables 2.5mmsq-4C	l.m.	124.00	
4-C.c-2-3-3	c)PVC Wire 4mmsq	l.m.	2,257.00	
4-C.c-2-3-4	d)PVC Wires 2.5mmsq	l.m.	1,275.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	2	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals		
Package	Package 1 : Cai Mep International Container Terminal		
Division	Division 4	Building Works	
Sub-Section	PAC1 - 4 - C	Operation Building	

Item of Work	PAC1 - 4 - C.c	Electrical Works		
4-C.c-2-4	Supply, install and test following plastic conduits c/w joints, junction boxes, accessories, supporting and miscellaneous materials. VE 22mm dia		l.m.	1,111.00
4-C.c-2-5	Supply, install and test following push button switch.		no.	9.00
4-C.c-2-5	Supply and install following hot dip galvanized metal pull boxes c/w supporting materials. 400*400*300		no.	1.00
4-C.c-3	Lighting system			
4-C.c-3-1	Supply, install and test following distribution switch board c/w supporting materials. Wall mounted Type		no.	
4-C.c-3-1-1	a) LP-OPBC-G		no.	1.00
4-C.c-3-1-2	b) LP-OPBC-1		no.	1.00
4-C.c-3-1-3	c) LP-OPBC-2		no.	1.00
4-C.c-3-1-4	d) LP-OPBC-3		no.	1.00
4-C.c-3-1-5	e) LP-PPH-1		no.	1.00
4-C.c-3-2	Supply, install and test following lighting fixtures c/w boxes, supporting and miscellaneous materials. type A361-5 to W401		no.	
4-C.c-3-2-1	a) type A361		no.	38.00
4-C.c-3-2-2	b) type B362		no.	54.00
4-C.c-3-2-3	c) type C201		no.	5.00
4-C.c-3-2-4	d) type C361		no.	9.00
4-C.c-3-2-5	e) type E361		no.	28.00
4-C.c-3-2-6	f) type E361-3		no.	5.00
4-C.c-3-2-7	g) type G362		no.	9.00
4-C.c-3-2-8	h) type F362MP		no.	6.00
4-C.c-3-2-9	i) type H151		no.	12.00
4-C.c-3-2-10	j) type I363		no.	24.00
4-C.c-3-2-11	k) type J362		no.	5.00
4-C.c-3-2-12	l) type M363		no.	26.00
4-C.c-3-2-13	m) type O201		no.	7.00
4-C.c-3-2-14	n) type P201		no.	6.00
4-C.c-3-2-15	o) type Q181		no.	4.00
4-C.c-3-2-16	p) type R201RP		no.	9.00
4-C.c-3-2-17	q) type V101		no.	9.00
4-C.c-3-2-18	r) type W401		no.	15.00

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	3	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET						
Project		Detailed Design Study of Cai Mep-Thi Vai International Terminals				
Package		Package 1 : Cai Mep International Container Terminal				
Division		Division 4	Building Works			
Sub-Section		PAC1 - 4 - C	Operation Building			
Item of Work		PAC1 - 4 - C.c	Electrical Works			
4-C.c-3-3	Supply, install and test following switches c/w boxes, supporting and miscellaneous materials.					
	15A 1-Way, 3Way, Remote Control Switches		no.			
4-C.c-3-3-1	a) 15A 1-Way 1-Gang		no.		33.00	
4-C.c-3-3-2	b) 15A 1-Way 2-Gang		no.		25.00	
4-C.c-3-3-3	c) 15A 1-Way 3-Gang		no.		6.00	
4-C.c-3-3-4	d) 15A 1-Way 1-Gang with Pilot lamp		no.		11.00	
4-C.c-3-3-5	f) Remote Control Switch 1-Gang		no.		1.00	
4-C.c-3-3-6	g) Remote Control Switch 2-Gang		no.		1.00	
4-C.c-3-3-7	h) Remote Control Switch 3-Gang		no.		7.00	
4-C.c-3-3-8	i) Remote Control Selector Switch 6L		no.		1.00	
4-C.c-3-4	Supply, install and test following wires c/w miscellaneous materials.					
	PVC Wires 1.2mm to 4mmsq		l.m.			
4-C.c-3-4-1	a)PVC Wire 4mmsq		l.m.		671.00	
4-C.c-3-4-2	b)PVC Wire 2.5mmsq		l.m.		5,546.00	
4-C.c-3-4-3	c)PVC Wire 1.2mm		l.m.		188.00	
4-C.c-3-5	Supply, install and test plastic conduits complete with joints, junction boxes, accessories, supporting and miscellaneous materials.					
	VE16mm dia to 22mm dia		l.m.			
4-C.c-3-5-1	a) VE16mm dia		l.m.		1,690.00	
4-C.c-3-5-2	b) VE22mm dia		l.m.		408.00	
4-C.c-4	Telephone System					
4-C.c-4-1	Supply, install, test and commission following telephone exchange machine (with MDF) c/w supporting and miscellaneous materials.		1.s		1.00	
	System Capacity					
	CO lines :192 max					
	Stations : 448max					
	Control Method					
	CPU : 32-bit CPU with 16-bit Data Bus					
	Switching					
	Non Blocking PCM Time Switch					
	Power Supplies					
	Primary : 220VAC,50Hz					
	Secondary : Station Supply Volt 30V					
	Circuit Volt : ±5V, ±15V					
References and Comments :						
Drawings No.						
Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	4	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

QUANTITY CALCULATION COVER SHEET						
Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals					
Package	Package 1 : Cai Mep International Container Terminal					
Division	Division 4	Building Works				
Sub-Section	PAC1 - 4 - C	Operation Building				
Item of Work	PAC1 - 4 - C.c	Electrical Works				
4-C.c-4-2	Supply, install and test following telephone sets c/w connector jack , supporting and miscellaneous materials.					
	Desktop type	no.				
4-C.c-4-2-1	a) Desktop type (Digital)	no.		23.00		
4-C.c-4-2-2	b) Desktop type (Analog)	no.		52.00		
4-C.c-4-3	Supply, install and test following telephone terminal board c/w supporting and miscellaneous materials.					
	Wall mounted Type	no.				
4-C.c-4-3-1	a) T-OPBC-G Wall mounted type 270Pr	no.		1.00		
4-C.c-4-3-2	b) T-OPBC-1 Wall mounted type 30Pr	no.		1.00		
4-C.c-4-3-3	c) T-OPBC-2 Wall mounted type 40Pr	no.		1.00		
4-C.c-4-3-4	d) T-OPBC-3 Wall mounted type 60Pr	no.		1.00		
4-C.c-4-4	Supply, install and test following telephone cables c/w terminal and miscellaneous materials.					
	TIVF 0.5mm-2C to TKEV 0.5mm-100Pr	l.m.				
4-C.c-4-4-1	a) TIVF 0.5mm-2C	l.m.		1,533.00		
4-C.c-4-4-2	b) TKEV 0.5mm-100Pr	l.m.		32.00		
4-C.c-4-4-3	c) TKEV 0.5mm-50Pr	l.m.		54.00		
4-C.c-4-4-4	d) TKEV 0.5mm-30Pr	l.m.		5.00		
4-C.c-4-4-5	e) TKEV 0.5mm-20Pr	l.m.		5.00		
4-C.c-4-5	Supply, install and test following wires c/w miscellaneous materials.					
	PVC Wires 16mmsq	l.m.		13.00		
4-C.c-4-6	Supply, install and test plastic conduits complete with joints, junction boxes, accessories, supporting and miscellaneous materials.					
	VE16mm dia to 54mm dia	l.m.				
4-C.c-4-6-1	a) VE16mm dia	l.m.		379.00		
4-C.c-4-6-2	b) VE22mm dia	l.m.		151.00		
4-C.c-4-6-3	c) VE36mm dia	l.m.		31.00		
4-C.c-4-6-4	d) VE42mm dia	l.m.		31.00		
4-C.c-4-6-5	e) VE54mm dia	l.m.		16.00		
4-C.c-4-7	Supply, install and test flexible plastic conduits c/w joints, accessories, supporting and miscellaneous materials.					
	FEP 100mm dia	l.m.		32.00		
References and Comments :						
Drawings No.						
Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	5	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals		
Package	Package 1 : Cai Mep International Container Terminal		
Division	Division 4	Building Works	
Sub-Section	PAC1 - 4 - C	Operation Building	

Item of Work	PAC1 - 4 - C.c	Electrical Works		
4-C.c-4-8	Supply and install following steel cable ladders c/w joints, accessories, supporting and miscellaneous materials. 400mm width		l.m.	17.00
4-C.c-4-9	Supply and install following metal pull boxes c/w supporting materials. 500*500*200		no.	2.00
4-C.c-4-10	Supply install and test following telephoe outlets c/w boxes, joints and supporting materials Modular Jack 6P2C (wall and floor mounted type)		no.	
4-C.c-4-10-1	a) Modular Jack 6P2C (wall mounted)		no.	16.00
4-C.c-4-10-2	b) Modular Jack 6P2C(floor mounted)		no.	36.00
4-C.c-4-11	Supply and install following concrete handhole with. 600mm dia cast iron cover. 800*800*1300		no.	1.00
4-C.c-4-12	Supply, install and test grounding works. gorunding resistance 10 ohm		l.s	1.00
4-C.c-5	Public Address System			
4-C.c-5-1	Supply, install, test and commission following amplifier sets c/w supporting and miscellaneous materials. Public Address System Rack		l.s.	1.00
4-C.c-5-2	Supply, install, test and commission following loud speaker and attenuator c/w supporting materials. Ceiling Speaker, horn speaker and attenuator		no.	
4-C.c-5-2-1	a) Ceiling Speaker 3W		no.	27.00
4-C.c-5-2-2	b) Ceiling Speaker 3W with Attenuator		no.	11.00
4-C.c-5-2-3	c) Horn Speaker 30w		no.	3.00
4-C.c-5-2-4	d) Straight Horn Speaker 30w		no.	1.00
4-C.c-5-2-5	e) Attenuator		no.	25.00
4-C.c-5-2	Supply, install and test following wires and cables c/w terminal and miscellaneous materials. PVC Wires 1.2mm to PVC/PVC Cables1.2mm-50Pr		l.m.	
4-C.c-5-2-1	a) PVC Wires 1.2mm		l.m.	1,860.00
4-C.c-5-2-2	b) PVC/PVC 1.2mm-50Pr		l.m.	29.00
4-C.c-5-2-3	c) PVC/PVC 1.2mm-10Pr		l.m.	57.00

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	6	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals		
Package	Package 1 : Cai Mep International Container Terminal		
Division	Division 4	Building Works	
Sub-Section	PAC1 - 4 - C	Operation Building	

Item of Work	PAC1 - 4 - C.c	Electrical Works		
4-C.c-5-3	Supply, install and test plastic conduits complete with joints, junction boxes, accessories, supporting and miscellaneous materials.			
	VE16mm dia to 54mm dia	l.m.		
4-C.c-5-3-1	a)16mm dia	l.m.	620.00	
4-C.c-5-3-2	b)28mm dia	l.m.	16.00	
4-C.c-5-3-3	c)36mm dia	l.m.	31.00	
4-C.c-5-3-4	d)54mm dia	l.m.	31.00	
4-C.c-5-4	Supply, install and test flexible plastic conduits c/w joints, accessories, supporting and miscellaneous materials.			
	FEP 65mm dia	l.m.	32.00	
4-C.c-5-5	Supply and install following metal pull boxes c/w supporting materials.			
	500*500*200	no.	2.00	
4-C.c-6	Master Antenna Television System (MATV)			
4-C.c-6-1	Supply, install, test and commission following TV antenna c/w supporting and miscellaneous materials.			
	VHF Antenna and UHF Antenna	no.		
4-C.c-6-1-1	a) VHF Antenna 12Elements	ls	1.00	
4-C.c-6-1-2	b) UHF Antenna 20Element	ls	1.00	
4-C.c-6-2	Supply, install, test and commission following features c/w boxes, supporting and miscellaneous materials.			
	Mixer, Booster, Splitter and Wall outlets	no.		
4-C.c-6-2-1	a) Mixer (Outdoor Type)	no.	1.00	
4-C.c-6-2-2	b) Booster (UHF, VHF, BS, CS)	no.	1.00	
4-C.c-6-2-3	c) Splitter (2 Way)	no.	3.00	
4-C.c-6-2-4	d) Splitter (3 Way)	no.	1.00	
4-C.c-6-2-5	e) Splitter (4 Way)	no.	1.00	
4-C.c-6-2-6	f) Wall Outlet (3 Terminals)	no.		
4-C.c-6-3	Supply and install following distribution Panel boxes c/w supportin and miscellaneous materials.			
	300*300:100 and 400*400:100	no.		
4-C.c-6-3-1	a) 300*300:100	no.	4.00	
4-C.c-6-3-2	b) 400*400:100	no.	1.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
T. N. Chau	15-Sep-05	7	N. Yaegshi	15-Sep-05	N. Nagao	2005/9/15

JICA DD Study Team assigned to JPC, PCI & IDS

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material Name	Summa	1		2		3		4		a		b		c		d		e		Other		Total	
			Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Quantity
A	GROUND FLOOR																							
1	LP-OPBC-G																							
1	Wiring																							
	PVC 2.5mm ² x2 E2.5	VE16	54.01	5.5	55.77	16.5	56.76		65.12		12.87		37.84	2.75	41.14	2.75	7.04	5.5	34.98	13.8			412.3	
	PVC 2.5mm ² x2	VE16			21.12	11										4.95		10.56	8.25				55.88	
	PVC 2.5mm ² x3	VE16	8.58	8.25	12.32	8.25										2.31	2.75						42.46	
	PVC 4mm ² x3 E2.5	VE22	14.63	2.75	37.07	11				4.4	2.75					15.4	2.75						90.75	
	PVC 2.5mm ² x3 E2.5	VE22	20.24		2.2				7.04	2.75						2.64		9.9					44.77	
	CPEV 1.2-1P	VE16																		54.89	2.75	57.64		
2	Lighting fixture																							
	E361				6																		6	
	J362									2													2	
	C361				1																		1	
	B362		18		6												3		8				35	
	M363					13		13															26	
	W401														4								4	
	O201												2										2	
	V101												2										2	
	Q181							4															4	
	C201				2																		2	
	H151				4																		4	
	A361																1						1	
	R201RP				2																		2	
	P201				2																		2	
3	SWITCH																							
	Switch 250V-15A 1 Gang				7										2		1		3				10	
	Switch with pilot lamp 250V-15A 1 Gang				3																		3	
	Switch 250V-15A 2 Gang		3		4												2						9	
	Remote control switch 2 Gang																				3		3	
	Remote control switch 3 Gang																				2		2	
	Remote control selector sv6 circuit																				1		1	
4	Exhaust fan				2																		2	
5	Distribution switch board																				1		1	

JICA DD Study Team assigned to JPC, PCI & IDS

Package		Package 1: Cai Mep International Container Terminal														Prepared by		T. N. Chau					
Division/Item		Division 4: Building Works / C														Checked by		N. Yaegashi					
Item of work		Operation Building														Date		15-Sep-05					
Qnt=Quantity																							
No.	Material Name	Summa	1		2		3		4		a		b		c		d		e		Other		Total
			Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)
B	FIRST FLOOR																						
I	LP-OPBC-1																						
1	Wiring																						
	PVC 2.5mm ² x2 E2.5	VE16	27.72	5.5	45.65	22	83.71	30.3	16.06		50.49	2.75	55.33		23.1	11						373.6	
	PVC 2.5mm ² x2	VE16			8.25	5.5	23.87	5.5							13.2							56.32	
	PVC 2.5mm ² x3	VE16	3.52	5.5	5.06	10	11.99															36.07	
	PVC 4mm ² x3 E2.5	VE22	9.9	5.5	6.82		7.7															29.92	
	PVC 2.5mm ² x3 E2.5	VE22	2.64		8.8		2.2		33.99	2.75												50.38	
	CPEV 1.2-1P	VE16																		8.8		8.8	
2	Lighting fixture																						
	E361				4		11															15	
	E361-3				5																	5	
	J362																			2		2	
	C361						4															4	
	B362		10												5					2		17	
	W401											6										6	
	O201										2											2	
	V101										4											4	
	C201				1		1															2	
	H151						4															4	
	A361								12													12	
	R201RP							2														2	
	P201				2																	2	
	F362MP				6																	6	
3	SWITCH																						
	Switch 250V-15A 1 Gang				2		4								2							8	
	Switch with pilot lamp 250V-15A 1 Gang				2		2															4	
	Switch 250V-15A 2 Gang		2		4		3															9	
	Remote control switch 3 Gang																			2		2	
4	Exhaust fan				1		1															2	
5	Distribution switch board																				1	1	

JICA DD Study Team assigned to JPC, PCI & IDS

Package		Package 1: Cai Mep International Container Terminal														Prepared by		T. N. Chau					
Division/Item		Division 4: Building Works / C														Checked by		N. Yaegashi					
Item of work		Operation Building														Date		15-Sep-05					
Qnt=Quantity																							
No.	Material Name	Summa	1		2		3		4		a		b		c		d		e		Other		Total
			Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)
C	SECOND FLOOR																						
I	LP-OPBC-2																						
1	Wiring																						
	PVC 2.5mm ² x2 E2.5		18.26	16.5	61.38	19.3	10.56				46.2	2.75	44	2.75	24.75	16.5							262.9
	PVC 2.5mm ² x2				14.74	11									26.29	13.8							65.78
	PVC 2.5mm ² x3				14.41	5.5																	19.91
	PVC 2.5mm ² x4		3.3	11																			14.3
	PVC 4mm ² x3 E2.5		9.35	5.5	31.02	19.3																	65.12
	PVC 2.5mm ² x3 E2.5		3.08		2.2		33.88	2.75															41.91
	PVC 2.5mm ² x4 E2.5																						0
	CPEV 1.2-1P																				23.1		23.1
2	Lighting fixture																						
	E361				7																		7
	J362																				1		1
	C361				1																		1
	B362																				2		2
	W401												5										5
	O201										3												3
	V101										3												3
	C201				1																		1
	H151				4																		4
	A361		12				9								4								25
	R201RP				4																		4
	P201				2																		2
	G362-2				6										3								9
	F362MP																						
3	SWITCH																						
	Switch 250V-15A 1 Gang				5										5								10
	Switch with pilot lamp 250V-15A 1 G		1		2																		3
	Switch 250V-15A 2 Gang				3																		3
	Switch 250V-15A 3 Gang		4																				4
	Remote control switch 3 Gang																				2		2
4	Exhaust fan				3																		3
5	Distribution switch board																				1		1

JICA DD Study Team assigned to JPC, PCI & IDS

Package		Package 1: Cai Mep International Container Terminal														Prepared by		T. N. Chau						
Division/Item		Division 4: Building Works / C														Checked by		N. Yaegashi						
Item of work		Operation Building														Date		15-Sep-05						
Qnt=Quantity																								
No.	Material Name	Summa	1		2		3		4		a		b		c		d		e		Other		Total	
			Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height	Length (Qnt)	Height
D	THIRD FLOOR																							
I	LP-OPBC-3																							
1	Wiring																							
	PVC 2.5mm ² x2 E2.5		35.64	24.8	7.92						33	2.75	28.6	2.75	19.8		19.8				15.4		190.4	
	PVC 2.5mm ² x2		11	2.75																			13.75	
	PVC 2.5mm ² x3		26.95	11																			37.95	
	PVC 2.5mm ² x4														3.85		4.95						8.8	
	PVC 4mm ² x3 E2.5		2.2	2.75											9.9	2.75	20.35						37.95	
	PVC 2.5mm ² x3 E2.5				17.16	2.75									2.2		2.2						24.31	
	CPEV 1.2-1P																				4.4		4.4	
2	Lighting fixture																							
	E361		4																				4	
	J362																				1		1	
	C361		4																				4	
	B362																				1		1	
	W401												3										3	
	O201										2												2	
	V101										2												2	
	C201		1																				1	
	H151		4																				4	
	A361				6																		6	
	P201		2																				2	
	I363														12		12						24	
	F362MP																							
3	SWITCH																							
	Switch 250V-15A 1 Gang		3																				3	
	Switch with pilot lamp 250V-15A 1 G		1																				1	
	Switch 250V-15A 2 Gang		4																				4	
	Switch 250V-15A 3 Gang														1		1						2	
	Remote control switch 3 Gang																				1		1	
4	Exhaust fan		2																				2	
5	Distribution switch board																				1		1	

JICA DD Study Team assigned to JPC, PCI & IDS

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material Name	Summa	1		2		3		4		a		b		c		d		e		Other		Total
			Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)	Heigh	Length (Qnt)
E	ROOF FLOOR																						
1	Wiring																						
	PVC 2.5mm ² x2 E2.5		14.85																			6.6	21.45
	PVC 2.5mm ² x2		4.73																				4.73
2	Lighting fixture																						
	E361																					1	1
	C201		1																				1
	R201RP		1																				1
3	SWITCH																						
	Switch 250V-15A 1 Gang		2																				2

WHOLE BUILDING																							Length	Quantity
1	Wiring																							
	PVC 2.5mm ² x2 E2.5	VE16																					1261	
	PVC 2.5mm ² x2	VE16																					196.5	
	PVC 2.5mm ² x3	VE16																					136.4	
	PVC 2.5mm ² x4	VE22																					23.1	
	PVC 4mm ² x3 E2.5	VE22																					223.7	
	PVC 2.5mm ² x3 E2.5	VE22																					161.4	
	CPEV 1.2-1P	VE16																					93.94	
	PVC 2.5mm ²																						3900	
TOTAL	PVC 4mm ²																						671.2	
OF	CPEV 1.2-1P																						93.94	
	E2.5																						1646	
	VE16																						1687	
	VE22																						408.2	
2	Lighting fixture																							
	E361																							28
	E361-3																							5
	J362																							5
	C361																							6
	B362																							54
	M363																							26

JICA DD Study Team assigned to JPC, PCI & IDS

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material Name	Summa	1		2		3		4		a		b		c		d		e		Other		Total
			Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length	Heigh	Length
	W401		(Qnt)		(Qnt)		(Qnt)		(Qnt)		(Qnt)		(Qnt)		(Qnt)		(Qnt)		(Qnt)		(Qnt)		15
	O201																						7
	V101																						9
	Q181																						4
	C201																						5
	H151																						12
	A361																						38
	R201RP																						8
	P201																						6
	G362-2																						9
	I363																						24
	F362MP																						6
3	SWITCH																						
	Switch 250V-15A 1 Gang																						33
	Switch with pilot lamp 250V-15A 1 Gang																						11
	Switch 250V-15A 2 Gang																						25
	Switch 250V-15A 3 Gang																						6
	Remote control switch 2 Gang																						3
	Remote control switch 3 Gang																						7
	Remote control selector sv6 circuit																						1
4	Exhaust fan																						9
5	Distribution switch board																						4

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material Name	Summary	5		6		7		8		9		10		11		12		13		14		15		16		e		f		g		h		i		Other	Total
			eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh		
A GROUND FLOOR																																						
1	LP-OPBC-G																																					
1	Wiring																																					
	PVC 4.0mm ² x2 E2	VE22	52												51.5				21	9.9	26		19										15	2.8		18.7	214.9	
	PVC 4.0mm ² x4 E2	VE22													17.6	5.5																				23.1		
	PVC/PVC 4mm ² -3	VE22	11	0.4																																11.44		
	PVC 16mm ²	VE16																																	5	5		
2	Fixture																																					
	Receptacle (wall r	250V-15A 3 pin single																																			4	
	Receptacle (wall r	250V-15A 3 pin double													4	4																					18	
	Table tap with cab	250V-15A 3 pin	4	4	4	4	4	4	4																											32		
	Cable joint box for	Branch circuit 2	2	2	2	2	2	2																												16		
	Pull box																																			1		
3	Distribution switch board																																					

B FIRST FLOOR																																						
No.	Material Name	Summary	5		6		7		8		9		10		11		12		13		14		15		16		17		d		A		B		i		Other	Total
			eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh	eng	Heigh		
I LP-OPBC-1																																						
1	Wiring																																					
	PVC 4.0mm ² x2 E2	VE22	26					37	4.95	41.1	8.9	9.68	7.15	17.2	8.5	30																						309.4
	PVC 4.0mm ² x4 E2	VE22	14	2.8											11.6	7.2																					35.75	
2	Fixture																																					
	Receptacle (wall r	250V-15A 3 pin single																																			10	
	Receptacle (wall r	250V-15A 3 pin	4																																		25	
	Receptacle (wall r	400V-20A 4 pin single																																			2	
3	Distribution switch board																																					

Package		Package 1: Cai Mep International Container Terminal																		Prepared by		T. N. Chau																			
Division/Item		Division 4: Building Works / C																		Checked by		N. Yaegashi																			
Item of work		Operation Building																		Date		15-Sep-05																			
Qnt=Quantity																																									
C SECOND FLOOR																																									
Material		No. o		4		5		6		7		8		9		10		11		12		13		14		15		d		e		f		g		h		Other		Total	
No.	Name	Summary	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	engt	Heigh	Quantity
			(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)		
I	LP-OPBC-2																																								
1	Wiring																																								
	PVC 4.0mm ² x2 E2	VE22	29	2.2			19.7	1.32	17.6	3.6	40.7	2.75																												117.4	
	PVC 4.0mm ² x4 E2	VE22	18	7.2			31.4	7.15																																64.07	
2	Fixture																																								
	Receptacle (wall r	250V-15A 3 pin single																																							5
	Receptacle (wall r	250V-15A 3 pin	5				4																																		17
3	Distribution switch board																																								1
II	P-OPBC-2																																								
1	Wiring																																								0
	PVC/PVC 2.5mm ²	PVC22																																							115
	PVC/PVC 4mm ² -4	PVC28																																							8.25
2	Fixture																																								0
	Pull box (B)																																								1
3	Distribution switch board																																								1

Package		Package 1: Cai Mep International Container Terminal																	Prepared by	T. N. Chau			
Division/Item		Division 4: Building Works / C																	Checked by	N. Yaegashi			
Item of work		Operation Building																	Date	15-Sep-05			
Qnt=Quantity																							
D THIRD FLOOR																							
No.	Material	No. of	3	4	5	6	7	8	9	10	11	12	e	f	g	h	i	j	k	Other	Total		
	Name	Summary	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	(Qnt)	
1	LP-OPBC-3																						
1	Wiring																						
	PVC 4.0mm ² x2 E2	VE22	42		20.2		16.5	11.6					34					9.9	4.4	12.1	4.4	4.4	159.9
	PVC 4.0mm ² x4 E2	VE22	17	2.8		11.6	7.15																38.5
	PVC/PVC 4mm ² -3	VE22											12	0.4									11.99
	PVC 16mm ²	VE16																					
2	Fixture																						
	Receptacle (wall r	250V-15A 3 pin single				1	2																3
	Receptacle (wall r	250V-15A 3 pin	3	3	2	2																	10
	Table tap with ca	250V-15A 3 pin *4											4	4	4	4	4						20
	Cable joint box fo	Branch circuit 20A*4											2	2	2	2	2						10
	Pull box																	1	1				2
3	Distribution switch board																				1		1
E ROOF FLOOR																							
I PC-PMBC-R																							
1	Wiring																						
	PVC 4.0mm ² x2 E2	VE22																			4		4
	PVC 2.5mm ² x3 E2	VE22																			5		5
2	Fixture																						
	Receptacle (wall r	250V-15A 3 pin single																				1	1
	Exhaust ventilation fan																					1	1
3	Distribution switch board																					1	1

Package	Package 1: Cai Mep International Container Terminal															Prepared by	T. N. Chau		
Division/Item	Division 4: Building Works / C															Checked by	N. Yaegashi		
Item of work	Operation Building															Date	15-Sep-05		
Qnt=Quantity																			
WHOLE BUILDING																	Lengt	Quantity	
1	Wiring																		
	PVC 4.0mm ² x2 E2	VE22																	805.7
	PVC 4.0mm ² x4 E2	VE22																	161.4
	PVC/PVC 4mm ² -3	VE22																	23.43
	PVC 2.5mm ² x3 E2	VE22																	5
	PVC/PVC 2.5mm ²	PVC22																	115.3
	PVC/PVC 4mm ² -4	PVC28																	8.25
	PVC 16mm ²	VE16																	5
	PVC 4.0mm ²																		2257
	PVC/PVC 4mm ² -3C																		23.43
TOTAL	PVC/PVC 2.5mm ² -4C																		115.3
OF	PVC/PVC 4mm ² -4C																		8.25
	E2.5																		972.1
	PVC 16mm ²																		5
	VE16																		5
	VE22																		995.5
	PVC22																		115.3
	PVC28																		8.25
2	Fixture																		
	Receptacle (wall r	250V-15A 3 pin single																	22
	Receptacle (wall r	250V-15A 3 pin double																	70
	Receptacle (wall r	400V-20A 4 pin single																	2
	Table tap with cat	250V-15A 3 pin *4																	52
	Cable joint box for	Branch circuit 20A*4																	26
	Pull box																		3
	Exhaust ventilation fan																		1
3	Distribution switch board																		6

JICA DD Study Team assigned to JPC, PCI & IDS

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material		Loud speaker & att		Other		Total	
	Name	Summa	Length (Quantity)	Height	Length (Quantity)	Height	Length	Quantity
A	GROUND FLOOR							
1	<u>Wiring</u>							
	PVC 1.2mm x 3	VE16	116.05	77.22			193.27	
2	<u>Fixture</u>							
	Loud speaker (3W)		9					9
	Loud speaker (3W) with attenuator		3					3
	Attenuator		9					9
3	<u>Terminal board</u>							0
B	FIRST FLOOR							
1	<u>Wiring</u>						0	
	PVC 1.2mm x 3	VE16	126.5	71.5			198	
2	<u>Fixture</u>							0
	Loud speaker (3W)		8					8
	Loud speaker (3W) with attenuator		3					3
	Attenuator		8					8
3	<u>Terminal board</u>							0
C	SECOND FLOOR							
1	<u>Wiring</u>						0	
	PVC 1.2mm x 3	VE16	89.1	37.18			126.28	
2	<u>Fixture</u>							0
	Loud speaker (3W)		5					5
	Loud speaker (3W) with attenuator		3					3
	Attenuator		4					4
3	<u>Terminal board</u>							0
D	THIRD FLOOR							
1	<u>Wiring</u>						0	
	PVC 1.2mm x 3	VE16	65.45	37.18			102.63	
2	<u>Fixture</u>							0
	Loud speaker (3W)		4					4
	Loud speaker (3W) with attenuator		2					2
	Attenuator		4					4
	Amplifier		1					1
	Pull box		2					2
3	<u>Terminal board</u>							0

		WHOLE BUILDING				Length	Quantity
1	<u>Wiring</u>						
	PVC 1.2mm x 3	VE16				620.18	
TOTAL	PVC 1.2mm					1860.54	
OF	VE16					620.18	
2	<u>Fixture</u>						
	Loud speaker (3W)						28
	Loud speaker (3W) with attenuator						11
	Attenuator						25
	Amplifier						1
	Pull box						2
3	<u>Terminal board</u>						0

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity






D THIRD FLOOR						
1	Wiring					
	Coaxial cable 5C-2V	VE16	29.15	29.7	58.85	
2	Fixture					
	TV antenna					0
	Wall outlet 3 terminal		1			1
	Wall outlet tap-off		2			2
	TV ditribution box		1			1
	Spliter 2 way		1			1
	Spliter 3 way					0
	Booster					0
3	Terminal board					0
C ROOF FLOOR						
1	Wiring					
	Coaxial cable 5C-2V	VE16	18.48		18.48	
2	Fixture					
	TV antenna		1			1
	Wall outlet 3 terminal					0
	Wall outlet tap-off					0
	TV ditribution box		1			1
	Spliter 2 way					0
	Spliter 3 way					0
	Spliter 4 way					1
	Booster		1			1
3	Terminal board					0

WHOLE BUILDING					Length	Quantity
1	Wiring					
	Coaxial cable 5C-2V				312.73	
	VE16				312.73	
2	Fixture					
	TV antenna					1
	Wall outlet 3 terminal					5
	Wall outlet tap-off					6
	TV ditribution box					5
	Spliter 2 way					3
	Spliter 3 way					1
	Spliter 4 way					1
	Booster					1

JICA DD Study Team assigned to JPC, PCI & IDS

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material		Telephone & Lan		Other		Total	
	Name	Summary	Length (Quantity)	Height	Length (Quantity)	Height	Length	Quantity
A	GROUND FLOOR							
1	T-PMBT-G							
1	Wiring							
	TIVF 0.5mm -2C x 2	VE16	41.25	1.65			42.9	
	TIVF 0.5mm -2C x 3	VE16	4.18	3.3			7.48	
	TIVF 0.5mm -2C x 4	VE16	44	2.75			46.75	
	TIVF 0.5mm -2C x 8 x 4	VE22	12.65	1.76			14.41	
		VE16	10.45	5.5			15.95	
		VE22	49.5				49.5	
2	Fixture							
	Telephone outlet (wall mounted)		7					7
	Telephone outlet (floor mounted)		16					16
	Telephone set		38					38
	Lan outlet (wall mounted)		4					4
3	Terminal board							1
B	FIRST FLOOR							
1	T-PMBT-1							
1	Wiring							
	TIVF 0.5mm -2C	VE16	17.27	11			28.27	
	TIVF 0.5mm -2C x 2	VE16	51.7	35.75			87.45	
	TIVF 0.5mm -2C x 4	VE16	11.55	1.65			13.2	
2	Fixture							
	Telephone outlet (wall mounted)		4					4
	Telephone outlet (floor mounted)		8					8
	Telephone set		12					12
	Lan outlet (floor mounted)		8					8
3	Terminal board							1
C	SECOND FLOOR							
1	T-PMBT-1							
1	Wiring							
	TIVF 0.5mm -2C	VE16	34.65	12.1			46.75	
	TIVF 0.5mm -2C x 2	VE16	8.8	3.3			12.1	
	TIVF 0.5mm -2C x 3	VE16	13.75	2.75			16.5	
		VE22	27.5	13.75			41.25	
		VE16						
2	Fixture							
	Telephone outlet (wall mounted)		4					4
	Telephone outlet (floor mounted)		2					2
	Telephone set		4					4
	Lan outlet (wall mounted)		2					2
	Lan outlet (floor mounted)		1					1
	Pull box or junction box							0
	Private branch telephone exchanger	with main distr. Frame						0
3	Terminal board							1
D	THIRD FLOOR							
1	T-PMBT-1							
1	Wiring							
	TIVF 0.5mm -2C	VE16	8.8	5.5			14.3	
	TIVF 0.5mm -2C x 2	VE16	43.45				43.45	
	TIVF 0.5mm -2C x 4	VE16	18.15	1.65			19.8	
	TIVF 0.5mm -2C x 8 x 2	VE22	12.1	1.65			13.75	
		VE22	13.2	1.65			14.85	
2	Fixture							
	Telephone outlet (wall mounted)		1					1
	Telephone outlet (floor mounted)		10					10
	Telephone set		21					21
	Pull box or junction box		2					2
	Private branch telephone exchanger	with main distr. Frame	1					1
3	Terminal board							1

JICA DD Study Team assigned to JPC, PCI & IDS

Package	Package 1: Cai Mep International Container Terminal	Prepared by	T. N. Chau
Division/Item	Division 4: Building Works / C	Checked by	N. Yaegashi
Item of work	Operation Building	Date	15-Sep-05

Qnt=Quantity

No.	Material		Telephone & Lan		Other		Total	
	Name	Summary	Length (Quantity)	Height	Length (Quantity)	Height	Length	Quantity
	WHOLE BUILDING						Length	Quantity
1	<u>Wiring</u>							
	TIVF 0.5mm -2C	VE16					89.32	
	TIVF 0.5mm -2C x 2	VE16					185.9	
	TIVF 0.5mm -2C x 3	VE16					23.98	
	TIVF 0.5mm -2C x 4	VE16					79.75	
	TIVF 0.5mm -2C x 8 x 2	VE22*2					13.75	
	TIVF 0.5mm -2C x 8 x 4	VE22*4					14.41	
	—○—	VE22					15.95	
	—○—	VE16					49.5	
	TIVF 0.5mm -2C						1533.18	
	—○—						65.45	
TOTAL								
OF		VE16					378.95	
		VE22					150.59	
2	<u>Fixture</u>							
	Telephone outlet (wall mounted)							16
	Telephone outlet (floor mounted)							36
	Telephone set							75
	Lan outlet (wall mounted)							6
	Lan outlet (floor mounted)							9
	Pull box or junction box							2
	Private branch telephone exchanger	with main distr. Frame						1
3	<u>Terminal board</u>							4

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals
Location	Cai Mep International Container Terminal
Section	Building Works
Sub-Section	4. Building Works
Item of Calculation	4D Amenity Blocks

Calculation Objective :

The quantity of the finish, the structure, the mechanical, and the electricity of a building is calculated, and it is a check.

References, Calculation Notes and Comments :

- 1) Building Finishing Works
 - 1-1) Building Works (B.Q) 1 ~ 6
 - 1-2) Finishing Works Total List 1 ~ 4
 - 1-3) Finishing Works 1 ~ 55
- 2) Building Structure Works
 - 2-1) Structure Works 1 ~ 51
 - 2-2) Earth Works 52 ~ 52
- 3) Mechanical Works
 - 3-1) Mechanical Works (B.Q) 1 ~ 4
 - 3-2) Mechanical Works Total List 1 ~ 3
 - 3-3) Mechanical Works 1 ~ 5
- 4) Electrical Works
 - 4-1) Electrical Works (B.Q) 1 ~ 6
 - 4-2) Electrical Works 1 ~ 10

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
N.T.Phuong	10-Jan-06	145	N.Yaegashi	10-Jan-06	N. Nagao	10-Jan-06

Detailed Design Study of Cai Mep-Thi Vai International Terminals

Cai Mep International Container Terminal

Building Works

4. Building Works

1) Building Finish Works

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals	
Package	Package 1 : Cai Mep International Container Terminal	
Division	Division 4	Building Works
Sub-Section	PAC1 - 4 - D	Amenity Block

Item of Work	PAC1 - 4 - D.a	Building Works
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
4-D.a-7	Stone and tile works			
4-D.a-7-1	Supply and lay ceramic floor tile, 200 x 200 mm	sq.m.	366.00	
4-D.a-7-2	Supply and lay ceramic floor tile, 300 x 300 mm	sq.m.	734.00	
4-D.a-7-3	Supply and lay ceramic wall tile, 150 x 200 mm	sq.m.	913.00	
4-D.a-7-5	Supply and lay precast terrazzo tile, 300 x 300 mm 25mm thick with rubbed finish for step	sq.m.	103.00	
4-D.a-7-6	Supply and lay precast terrazzo tile, 300 x 300 mm 25mm thick with rubbed finish for floor	sq.m.	91.70	
4-D.a-7-7	Supply and lay precast terrazzo tile, 25mm thick w=200 with rubbed finish for counter top of pipe space	l.m.	56.10	
4-D.a-7-8	Supply and lay precast terrazzo tile, 25mm thick w=460 with rubbed finish for counter top of pipe space	l.m.	1.90	
4-D.a-7-9	Supply and lay precast terrazzo tile, 25mm thick w=500 with rubbed finish for counter top of pipe space	l.m.	9.10	
4-D.a-7-10	Supply and install precast terrazzo for the handrail below, 130x25 mm	l.m.	38.20	
4-D.a-7-11	Supply and install precast terrazzo for foot sill, 145x25 mm	l.m.	17.30	
4-D.a-7-12	Supply and lay ceramic wall tile, 100 x 100 mm	sq.m.	7.50	
4-D.a-8	Carpentry works			
4-D.a-8-1	Conduct carpentry and joinery works of door frames, 140 x 40 mm	l.m.	133.00	
4-D.a-8-2	Conduct carpentry and joinery works of window trim, 75 x 25 mm	l.m.	206.00	
4-D.a-8-3	Conduct carpentry and joinery works of window shelf W=300 mm	l.m.	5.50	
4-D.a-8-4	Conduct carpentry and joinery works of window shelf W=600 mm	l.m.	5.50	
4-D.a-9	Metal works			
4-D.a-9-1	Supply and install 200x200mm wire mesh with 3.2mm dia.	sq.m.	990.00	
4-D.a-9-2	Ditto, stainless steel ladder	no.	1.00	
4-D.a-9-3	Supply and install 150 mm dia. roof drain	no.	10.00	
4-D.a-9-4	Supply and install 150 mm dia. floor roof drain	no.	5.00	
4-D.a-9-5	Supply and install light gauge steel frame for ceiling	sq.m.	239.00	
4-D.a-9-6	Supply and install aluminium angle L-30x30x1.5mm thick	l.m.	264.00	
4-D.a-9-7	Supply and install opening frame with counter steel plate W=140 1.2mm thick	l.m.	11.60	
4-D.a-9-8	Supply and install steel handrail H=900	l.m.	5.10	
4-D.a-9-9	Supply and install steel handrail H=900 for slanting	l.m.	24.60	
4-D.a-9-10	Supply and install steel handrail H=900	l.m.	142.00	
4-D.a-9-11	Supply and install steel handrail H=900 for slanting	l.m.	21.70	
4-D.a-9-12	Ditto, joint brass plate 5x25 mm	l.m.	1.90	
4-D.a-9-13	Ditto, Ladder stainless steel bar 16dar W=400	no.	6.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
NGUYEN THANH PHUONG	15-Sep-05	2	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET

Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals	
Package	Package 1 : Cai Mep International Container Terminal	
Division	Division 4	Building Works
Sub-Section	PAC1 - 4 - D	Amenity Block

Item of Work	PAC1 - 4 - D.a	Building Works
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
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Summary of Quantities

ITEM NO.	DESCRIPTION	Unit	Quantity	Remarks
4-D.a-10	Plaster works (Exterior)			
4-D.a-10-1	Plaster plumb surface with mortar 15mm thick for wall	sq.m.	896.00	
4-D.a-10-2	Plaster plumb surface with mortar 15mm thick for skirting	sq.m.	163.00	
4-D.a-10-3	Plaster architrave frames with mortar, w=60 15mm thick	l.m.	62.20	
4-D.a-10-4	Plaster architrave frames sill with mortar, w=80 15mm thick	l.m.	80.20	
4-D.a-10-5	Plaster architrave frames with mortar, w=300 15mm thick	l.m.	10.80	
4-D.a-10-6	Plaster architrave frames sill with mortar, w=400mm	l.m.	8.10	
4-D.a-10-7	Render eaves with cement sand 30mm thick	sq.m.	35.30	
4-D.a-10-8	Render roof with cement sand 30mm thick	sq.m.	96.20	
4-D.a-10-9	Rendering parapet wall with cement sand 30mm thick	sq.m.	55.50	
4-D.a-10-10	Rendering parapet with cement sand 30mm thick	sq.m.	69.00	
4-D.a-10-11	Render skirting 100 mm height with cement sand 15 mm thick	l.m.	59.90	
4-D.a-10-12	Render coping with cement sand W=180 15 mm thick	l.m.	73.50	
4-D.a-10-13	Supply and place covering mortar with 60mm thick	sq.m.	673.00	
4-D.a-10-14	Supply and place levelling mortar with 15mm thick for roof	sq.m.	739.00	
4-D.a-10-15	Plaster plumb surface with mortar 15mm thick for ceiling (Interior)	sq.m.	65.80	
4-D.a-10-16	Plaster plumb and soffit surface with mortar 15mm thick for wall	sq.m.	2,114.00	
4-D.a-10-17	Render step with cement sand 30mm thick	sq.m.	15.30	
4-D.a-10-18	Render wall with cement sand 15mm thick	sq.m.	176.00	
4-D.a-10-19	Render floor with cement sand 30mm thick	sq.m.	14.20	
4-D.a-10-20	Render floor with cement sand screed trowel finish 30mm thick	sq.m.	74.40	
4-D.a-10-21	Supply and place waterproofing mortar with 30mm thick 30mm thick	sq.m.	140.00	
4-D.a-10-22	Render skirting 100 mm height with cement sand 15 mm thick	sq.m.	266.00	
4-D.a-10-23	Render skirting 100 mm height with colored cement 15 mm thick	sq.m.	365.00	
4-D.a-10-24	Supply and place covering mortar with 40-70mm thick	sq.m.	239.00	
4-D.a-10-25	Supply and place leveling mortar with 15mm thick for toilet	sq.m.	531.00	
4-D.a-10-26	Plaster plumb surface with mortar 15mm thick for ceiling	sq.m.	844.00	
4-D.a-11	Door and window works			
4-D.a-11-1	Supply and install stainless steel frame glass window and glass door whit translucent glass and tempered glass door D1, 3720x2700 mm	no.	1.00	
4-D.a-11-2	Supply and install steel flush glass door whit wired figured glass D2, 1800x2150 mm	no.	2.00	
4-D.a-11-3	Supply and install steel flush glass door whit wired transparent glass D3, 1800x2150 mm	no.	1.00	
4-D.a-11-4	Supply and install steel flush glass door whit wired transparent glass D4, 1200x2150 mm	no.	8.00	
4-D.a-11-5	Supply and install steel flush glass door whit wired figured glass D4, 1200x2150 mm	no.	4.00	

References and Comments :

Drawings No.

Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
NGUYEN THANH PHUONG	15-Sep-05	3	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET						
Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals					
Package	Package 1 : Cai Mep International Container Terminal					
Division	Division 4	Building Works				
Sub-Section	PAC1 - 4 - D	Amenity Block				
Item of Work	PAC1 - 4 - D.a	Building Works				
Summary of Quantities						
ITEM NO.	DESCRIPTION		Unit		Remarks	
Summary of Quantities						
ITEM NO.	DESCRIPTION		Unit		Remarks	
4-D.a-11-6	Supply and install steel flush glass door with wired transparent glass D5, 1200x2700 mm		no.		2.00	
4-D.a-11-7	Supply and install steel flush glass door with wired figured glass D6, 900x2150 mm		no.		2.00	
4-D.a-11-8	Supply and install steel flush glass door with wired transparent glass D6, 900x2150 mm		no.		1.00	
4-D.a-11-9	Supply and install steel flush glass door with wired figured glass D7 750x2150 mm		no.		10.00	
4-D.a-11-10	Supply and install steel flush door D8, 1200x2150 mm		no.		3.00	
4-D.a-11-11	Supply and install steel flush door D9, 900x2150 mm		no.		4.00	
4-D.a-11-12	Supply and install plywood flush door D10, 600x2000 mm		no.		23.00	
4-D.a-11-13	Supply and install plywood flush door D11a, 1600x2000 mm		no.		2.00	
4-D.a-11-14	Supply and install plywood flush door D11b, 900x2000 mm		no.		1.00	
4-D.a-11-15	Supply and install aluminium glass door with wired transparent glass D12, 1200x2150 mm		no.		3.00	
4-D.a-11-16	Supply and install aluminium glass door with wired transparent glass D13, 900x2150 mm		no.		1.00	
4-D.a-11-17	Supply and install steel flush glass door with wired figured glass D13, 900x2150 mm		no.		6.00	
4-D.a-11-18	Supply and install steel flush door D14, 600x600 mm		no.		9.00	
4-D.a-11-19	Supply and install steel flush door D15, 600x900 mm		no.		1.00	
4-D.a-11-20	Supply and install aluminium horizontal sliding window with figured glass, W1a, 3270x1150 mm		no.		1.00	
4-D.a-11-21	Ditto, aluminium horizontal sliding window with transparent glass, W1a, 3270x1150 mm		no.		4.00	
4-D.a-11-22	Ditto, aluminium horizontal sliding window with figured glass, W1b, 3270x650 mm		no.		2.00	
4-D.a-11-23	Ditto, aluminium horizontal sliding window with transparent glass, W1b, 3270x650 mm		no.		1.00	
4-D.a-11-24	Ditto, aluminium horizontal sliding window with figured glass, W1c, 3270x450 mm		no.		1.00	
4-D.a-11-25	Ditto, aluminium horizontal sliding window with transparent glass, W2, 3740x1150 mm		no.		1.00	
4-D.a-11-26	Ditto, aluminium horizontal sliding window with figured glass, W3a, 2470x1150 mm		no.		1.00	
4-D.a-11-27	Ditto, aluminium horizontal sliding window with transparent glass, W3a, 2470x1150 mm		no.		4.00	
4-D.a-11-28	Ditto, aluminium horizontal sliding window with transparent glass, W3b, 2470x650 mm		no.		4.00	
References and Comments :						
Drawings No.						
Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
NGUYEN THANH PHUONG	15-Sep-05	4	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET						
Project	Detailed Design Study of Cai Mep-Thi Vai International Terminals					
Package	Package 1 : Cai Mep International Container Terminal					
Division	Division 4	Building Works				
Sub-Section	PAC1 - 4 - D	Amenity Block				
Item of Work	PAC1 - 4 - D.a	Building Works				
Summary of Quantities						
ITEM NO.	DESCRIPTION			Unit	Remarks	
Summary of Quantities						
ITEM NO.	DESCRIPTION			Unit	Remarks	
4-D.a-11-29	Ditto, aluminium horizontal sliding window with transparent glass, W4a, 1200x1150 mm			no.	4.00	
4-D.a-11-30	Ditto, aluminium horizontal sliding window with figured glass, W4a, 1200x1150 mm			no.	1.00	
4-D.a-11-31	Ditto, aluminium horizontal sliding window with figured glass, W4b, 1200x650 mm			no.	1.00	
4-D.a-11-32	Ditto, aluminium horizontal sliding window with figured glass, W4c, 1600x450 mm			no.	2.00	
4-D.a-11-33	Ditto, aluminium horizontal sliding window W4d, 1600x1150 mm			no.	2.00	
4-D.a-11-34	Ditto, aluminium top hinged outseing window with figured glass, W5, 600x650 mm			no.	6.00	
4-D.a-11-35	Ditto, aluminium top hinged outseing window with transparent glass, W5, 600x650 mm			no.	2.00	
4-D.a-11-36	Ditto, aluminium horizontal sliding window with transparent glass, W6, 600x900 mm			no.	1.00	
4-D.a-11-37	Ditto, aluminium fixed louver W7, 600x450 mm			no.	5.00	
4-D.a-11-38	Ditto, aluminium fixed louver W8, 1800x600 mm			no.	1.00	
4-D.a-11-39	Filling waterproofing cement mortar around door frame and window frames			l.m.	704.00	
4-D.a-12	Painting works (Exterior)					
4-D.a-12-1	Supply, rub down and apply emulsion paint for plastered surface (Interior)			sq.m.	1,171.00	
4-D.a-12-2	Supply, rub down and apply emulsion paint for plastered surface			sq.m.	2,721.00	
4-D.a-12-3	Supply, rub down and apply vinyl paint for plastered surface			sq.m.	266.00	
4-D.a-12-4	Supply, rub down and apply oil paint for wooden materials for trim W=110 (Others)			l.m.	206.00	
4-D.a-12-5	Supply, rub down and apply oil paint for steel materials			sq.m.	220.00	
4-D.a-12-6	Supply, rub down and apply oil paint for steel handrail			sq.m.	226.00	
4-D.a-12-7	Supply, rub down and apply oil paint for wooden materials			sq.m.	101.00	
4-D.a-12-8	Supply, rub down and apply oil paint for Down Pipe materials (PVC D150)			sq.m.	50.10	
References and Comments :						
Drawings No.						
Prepared		No. of Pages	Checked		Reviewed	
by	Date		by	Date	by	Date
NGUYEN THANH PHUONG	15-Sep-05	5	N. Yaegashi	15-Sep-05	N. Nagao	2005/9/15

QUANTITY CALCULATION COVER SHEET							
Package	Package 1 : Cal Mep International Container Terminal	Prepared by	NGUYEN THANH PHUONG				
Division / Item	Division 4 : Building Works / D	Checked by	N. Yaegashi				
Item of Work	Amenity Block	Date	9-Jan-06				
ITEM NO.	DESCRIPTION	Unit					
4-D	Amenity Block						
4-D.a-3	Piling works						
4-D.a-3-1	Supply, handle, pitch and drive Spun Cylindrical Prestressed Concrete Piles, JIS A 5335 or equivalent including welding at joints, pile tip reinforcement, cut off pile head and pile head treatment, as shown in the drawing						
	a) 600 mm Dia. X 48 m long	no.	60.00	60.00			
	b) 500 mm Dia. X 485 m long	no.	10.00	10.00			
4-D.a-4	Concrete works						
4-D.a-4-1	Supply and place concrete Class D (fck'=30 N/mm2) for roof floor slab and slab, footing and foundation, and structure frame such as Lintel, Column, Beam, Stairs, Wall,	cu.m.	1,267.28	1,343.92	11.35	12.01	
4-D.a-4-2	Supply and place covering concrete Class D (fck'=14 N/mm2)	sq.m.	74.41	74.41			
4-D.a-4-3	Supply, install and remove formwork including scaffolding	sq.m.	5,237.44	5,851.17	119.48	266.79	
4-D.a-4-4	Supply and place covering concrete Class D (fck'=14 N/mm2)	sq.m.	26.07	26.07			
4-D.a-4-5	Supply, install and place Polystyrene Foam	sq.m.	0.43	0.43			
4-D.a-4-6	Supply and install reinforcing bars over than 16mm in dia.	t	50.65	50.65			
4-D.a-4-7	Supply and install reinforcing bars 16mm and less than 16mm in dia.	t	85.53	85.53			
4-D.a-5	Masonry works						
4-D.a-5-1	Supply and lay bricks for 190 mm thickness wall with a mortar joint	sq.m.	597.42	597.42			
4-D.a-5-2	Supply and lay bricks for 90 mm thickness wall with a mortar joint	sq.m.	1,333.97	128.33	117.26	122.68	1,065.70
4-D.a-5-3	Supply and lay bricks for 10 mm thickness roof with a mortar joint (Doubles)	sq.m.	622.86	672.86			
4-D.a-6	Waterproofing works						
4-D.a-6-1	Supply and apply asphalt coating for toilet	sq.m.	531.08	317.34	213.74		
4-D.a-6-2	Supply and apply asphalt coating for roof	sq.m.	739.41	672.86	66.55		
4-D.a-6-3	Supply and apply sealing at the end of waterproofing	l.m.	453.07	314.43	138.64		
4-D.a-6-4	Supply and apply sealing around door and window frames	l.m.	324.92	324.92			
4-D.a-6-5	Supply and apply sealing for placing joint	l.m.	106.00	106.00			
4-D.a-7	Stone and tile works						
4-D.a-7-1	Supply and lay ceramic floor tile, 200 x 200 mm	sq.m.	365.92	365.92			
4-D.a-7-2	Supply and lay ceramic floor tile, 300 x 300 mm	sq.m.	734.13	734.13			
4-D.a-7-3	Supply and lay ceramic wall tile, 150 x 200 mm	sq.m.	912.92	912.92			
4-D.a-7-5	Supply and lay precast terrazzo tile, 300 x 300 mm 25mm thick with rubbed finish for step	sq.m.	103.16	91.72	11.44		
4-D.a-7-6	Supply and lay precast terrazzo tile, 300 x 300 mm 25mm thick with rubbed finish for floor	sq.m.	91.67	84.23	7.44		
4-D.a-7-7	Supply and lay precast terrazzo tile, 25mm thick w=200 with rubbed finish for counter top of pipe space	l.m.	56.06	56.06			
4-D.a-7-8	Supply and lay precast terrazzo tile, 25mm thick w=460 with rubbed finish for counter top of pipe space	l.m.	1.90	1.90			
4-D.a-7-9	Supply and lay precast terrazzo tile, 25mm thick w=500 with rubbed finish for counter top	l.m.	9.10	9.10			
4-D.a-7-10	Supply and install precast terrazzo for the handrail below, 130x25 mm	l.m.	38.20	38.20			
4-D.a-7-11	Supply and install precast terrazzo for foot sill, 145x25 mm	l.m.	17.31	6.73	10.58		
4-D.a-7-12	Supply and lay ceramic wall tile, 100 x 100 mm	sq.m.	7.45	7.45			

QUANTITY CALCULATION COVER SHEET

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	NGUYEN THANH PHUONG		
Division / Item	Division 4 : Building Works / D	Checked by	N. Yaegashi		
Item of Work	Amenity Block	Date	9-Jan-06		
ITEM NO.	DESCRIPTION	Unit			
4-D.a-8	Carpentry works				
4-D.a-8-1	Conduct carpentry and joinery works of door frames, 140 x 40 mm	l.m.	133.10	133.10	
4-D.a-8-2	Conduct carpentry and joinery works of window trim, 75 x 25 mm	l.m.	206.00	206.00	
4-D.a-8-3	Conduct carpentry and joinery works of window shelf W=300 mm	l.m.	5.51	5.51	
4-D.a-8-4	Conduct carpentry and joinery works of window shelf W=600 mm	l.m.	5.51	5.51	
4-D.a-9	Metal works				
4-D.a-9-1	Supply and install 200x200mm wire mesh with 3.2mm dia.	sq.m.	990.20	317.34	672.86
4-D.a-9-2	Ditto, stainless steel ladder	no.	1.00	1.00	
4-D.a-9-3	Supply and install 150 mm dia. roof drain	no.	10.00	10.00	
4-D.a-9-4	Supply and install 150 mm dia. floor roof drain	no.	5.00	5.00	
4-D.a-9-5	Supply and install light gauge steel frame for ceiling	sq.m.	239.19	239.19	
4-D.a-9-6	Supply and install aluminium angle L-30x30x1.5mm thick	l.m.	264.44	264.44	
4-D.a-9-7	Supply and install opening frame with counter steel plate W=140 1.2mm thick	l.m.	11.61	11.61	
4-D.a-9-8	Supply and install steel handrail H=900	l.m.	5.10	5.10	
4-D.a-9-9	Supply and install steel handrail H=900 for slanting	l.m.	24.60	24.60	
4-D.a-9-10	Supply and install steel handrail H=900	l.m.	141.74	141.74	
4-D.a-9-11	Supply and install steel handrail H=900 for slanting	l.m.	21.70	21.70	
4-D.a-9-12	Ditto, joint brass plate 5x25 mm	l.m.	1.89	1.89	
4-D.a-9-13	Ditto, Ladder stainless steel bar 16dar W=400	no.	6.00	6.00	
4-D.a-10	Plaster works				
	(Exterior)				
4-D.a-10-1	Plaster plumb surface with mortar 15mm thick for wall	sq.m.	896.49	896.49	
4-D.a-10-2	Plaster plumb surface with mortar 15mm thick for skirting	sq.m.	163.49	4.49	159.00
4-D.a-10-3	Plaster architrave frames with mortar, w=60 15mm thick	l.m.	62.24	62.24	
4-D.a-10-4	Plaster architrave frames sill with mortar, w=80 15mm thick	l.m.	80.22	80.22	
4-D.a-10-5	Plaster architrave frames with mortar, w=300 15mm thick	l.m.	10.84	10.84	
4-D.a-10-6	Plaster architrave frames sill with mortar, w=400mm	l.m.	8.14	8.14	
4-D.a-10-7	Render eaves with cement sand 30mm thick	sq.m.	35.30	35.30	
4-D.a-10-8	Render roof with cement sand 30mm thick	sq.m.	96.20	96.20	
4-D.a-10-9	Rendering parapet wall with cement sand 30mm thick	sq.m.	55.45	55.45	
4-D.a-10-10	Rendering parapet with cement sand 30mm thick	sq.m.	69.00	69.00	
4-D.a-10-11	Render skirting 100 mm height with cement sand 15 mm thick	l.m.	59.94	59.94	
4-D.a-10-12	Render coping with cement sand W=180 15 mm thick	l.m.	73.54	73.54	
4-D.a-10-13	Supply and place covering mortar with 60mm thick	sq.m.	672.86	672.86	
4-D.a-10-14	Supply and place levelling mortar with 15mm thick for roof	sq.m.	739.41	672.86	66.55
4-D.a-10-15	Plaster plumb surface with mortar 15mm thick for ceiling (Interior)	sq.m.	65.78	65.78	
4-D.a-10-16	Plaster plumb and soffit surface with mortar 15mm thick for wall	sq.m.	2,114.08	2,051.66	62.42
4-D.a-10-17	Render step with cement sand 30mm thick	sq.m.	15.34	15.34	
4-D.a-10-18	Render wall with cement sand 15mm thick	sq.m.	175.66	175.66	
4-D.a-10-19	Render floor with cement sand 30mm thick	sq.m.	14.15	14.15	
4-D.a-10-20	Render floor with cement sand screed trowel finish 30mm thick	sq.m.	74.41	74.41	
4-D.a-10-21	Supply and place waterproofing mortar with 30mm thick 30mm thick	sq.m.	140.14	73.29	66.85
4-D.a-10-22	Render skirting 100 mm height with cement sand 15 mm thick	sq.m.	265.87	43.25	222.62
4-D.a-10-23	Render skirting 100 mm height with colored cement 15 mm thick	sq.m.	364.66	364.66	
4-D.a-10-24	Supply and place covering mortar with 40-70mm thick	sq.m.	239.19	239.19	
4-D.a-10-25	Supply and place leveling mortar with 15mm thick for toilet	sq.m.	531.08	317.34	213.74
4-D.a-10-26	Plaster plumb surface with mortar 15mm thick for ceiling	sq.m.	844.23	640.89	203.34

QUANTITY CALCULATION COVER SHEET

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	NGUYEN THANH PHUONG			
Division / Item	Division 4 : Building Works / D	Checked by	N. Yaegashi			
Item of Work	Amenity Block	Date	9-Jan-06			
ITEM NO.	DESCRIPTION	Unit				
4-D.a-11	Door and window works					
4-D.a-11-1	Supply and install stainless steel frame glass window and glass door and translucent glass or tempered glass door D1, 3720x2700 mm	no.	1.00	1.00		
4-D.a-11-2	Supply and install steel flush glass door and wired figured glass D2, 1800x2150 mm	no.	2.00	2.00		
4-D.a-11-3	Supply and install steel flush glass door and wired transparent glass D3, 1800x2150 mm	no.	1.00	1.00		
4-D.a-11-4	Supply and install steel flush glass door and wired transparent glass D4, 1200x2150 mm	no.	8.00	8.00		
4-D.a-11-5	Supply and install steel flush glass door and wired figured glass D4, 1200x2150 mm	no.	4.00	4.00		
4-D.a-11-6	Supply and install steel flush glass door and wired transparent glass D5, 1200x2700 mm	no.	2.00	2.00		
4-D.a-11-7	Supply and install steel flush glass door and wired figured glass D6, 900x2150 mm	no.	2.00	2.00		
4-D.a-11-8	Supply and install steel flush glass door and wired transparent glass D6, 900x2150 mm	no.	1.00	1.00		
4-D.a-11-9	Supply and install steel flush glass door and wired figured glass D7 750x2150 mm	no.	10.00	10.00		
4-D.a-11-10	Supply and install steel flush door D8, 1200x2150 mm	no.	3.00	3.00		
4-D.a-11-11	Supply and install steel flush door D9, 900x2150 mm	no.	4.00	4.00		
4-D.a-11-12	Supply and install plywood flush door D10, 600x2000 mm	no.	23.00	23.00		
4-D.a-11-13	Supply and install plywood flush door D11a, 1600x2000 mm	no.	2.00	2.00		
4-D.a-11-14	Supply and install plywood flush door D11b, 900x2000 mm	no.	1.00	1.00		
4-D.a-11-15	Supply and install aluminium glass door and wired transparent glass D12, 1200x2150 mm	no.	3.00	3.00		
4-D.a-11-16	Supply and install aluminium glass door and wired transparent glass D13, 900x2150 mm	no.	1.00	1.00		
4-D.a-11-17	Supply and install steel flush glass door and wired figured glass D13, 900x2150 mm	no.	6.00	6.00		
4-D.a-11-18	Supply and install steel flush door D14, 600x600 mm	no.	9.00	9.00		
4-D.a-11-19	Supply and install steel flush door D15, 600x900 mm	no.	1.00	1.00		
4-D.a-11-20	Supply and install aluminium horizontal sliding window and figured glass, W1a, 4940x1150 mm	no.	1.00	1.00		
4-D.a-11-21	Ditto, aluminium horizontal sliding window and transparent glass, W1a, 4940x1150 mm	no.	4.00	4.00		
4-D.a-11-22	Ditto, aluminium horizontal sliding window and figured glass, W1b, 4940x650 mm	no.	2.00	2.00		
4-D.a-11-23	Ditto, aluminium horizontal sliding window and transparent glass, W1b, 4940x650 mm	no.	1.00	1.00		
4-D.a-11-24	Ditto, aluminium horizontal sliding window and figured glass, W1c, 4940x450 mm	no.	1.00	1.00		
4-D.a-11-25	Ditto, aluminium horizontal sliding window and transparent glass, W2, 3740x1150 mm	no.	1.00	1.00		
4-D.a-11-26	Ditto, aluminium horizontal sliding window and figured glass, W3a, 2470x1150 mm	no.	1.00	1.00		
4-D.a-11-27	Ditto, aluminium horizontal sliding window and transparent glass, W3a, 2470x1150 mm	no.	4.00	4.00		
4-D.a-11-28	Ditto, aluminium horizontal sliding window and transparent glass, W3b, 2470x650 mm	no.	4.00	4.00		
4-D.a-11-29	Ditto, aluminium horizontal sliding window and transparent glass, W4a, 1200x1150 mm	no.	4.00	4.00		
4-D.a-11-30	Ditto, aluminium horizontal sliding window and figured glass, W4a, 1200x1150 mm	no.	1.00	1.00		

QUANTITY CALCULATION COVER SHEET

Package	Package 1 : Cai Mep International Container Terminal	Prepared by	NGUYEN THANH PHUONG			
Division / Item	Division 4 : Building Works / D	Checked by	N. Yaegashi			
Item of Work	Amenity Block	Date	9-Jan-06			
ITEM NO.	DESCRIPTION	Unit				
4-D.a-11-31	Ditto, aluminium horizontal sliding window and figured glass, W4b, 1200x650 mm	no.	1.00	1.00		
4-D.a-11-32	Ditto, aluminium horizontal sliding window and figured glass, W4c, 1600x450 mm	no.	2.00	2.00		
4-D.a-11-33	Ditto, aluminium horizontal sliding window W4d, 1600x1150 mm	no.	2.00	2.00		
4-D.a-11-34	Ditto, aluminium top hinged outseing window and figured glass, W5, 600x650 mm	no.	6.00	6.00		
4-D.a-11-35	Ditto, aluminium top hinged outseing window and transparent glass, W5, 600x650 mm	no.	2.00	2.00		
4-D.a-11-36	Ditto, aluminium horizontal sliding window and transparent glass, W6, 600x900 mm	no.	1.00	1.00		
4-D.a-11-37	Ditto, aluminium fixed louver W7, 600x450 mm	no.	5.00	5.00		
4-D.a-11-38	Ditto, aluminium fixed louver W8, 1800x600 mm	no.	1.00	1.00		
4-D.a-11-39	Filling waterproofing cement mortar around door frame and window frames	l.m.	704.02	704.02		
4-D.a-12	Painting works (Exterior)					
4-D.a-12-1	Supply, rub down and apply emulsion paint for plastered surface (Interior)	sq.m.	1,170.90	159.00	946.12	65.78
4-D.a-12-2	Supply, rub down and apply emulsion paint for plastered surface	sq.m.	2,721.04	2,051.66	640.89	28.49
4-D.a-12-3	Supply, rub down and apply vinyl paint for plastered surface	sq.m.	265.76	62.42	203.34	
4-D.a-12-4	Supply, rub down and apply oil paint for wooden materials for trim W=110 (Others)	l.m.	206.00	206.00		
4-D.a-12-5	Supply, rub down and apply oil paint for steel materials	sq.m.	219.88	219.88		
4-D.a-12-6	Supply, rub down and apply oil paint for steel handrail	sq.m.	225.97		34.75	191.22
4-D.a-12-7	Supply, rub down and apply oil paint for wooden materials	sq.m.	101.36	101.36		
4-D.a-12-8	Supply, rub down and apply oil paint for Down Pipe materials (PVC D150)	sq.m.	50.10	50.10		
4-D.a-13	Finishing works					
4-D.a-13-1	Supply and install gypsum ceiling 12mm thick with System ceiling	sq.m.	179.02	179.02		
4-D.a-13-2	Supply and install calcium silicate board 6mm thick with System ceiling	sq.m.	28.49	28.49		
4-D.a-13-3	Supply and install plastic ceiling 10mm thick	sq.m.	239.19	239.19		
4-D.a-14	Other works					
4-D.a-14-1	Supply and install wood curtain boxes and curtain rails	l.m.	41.58	41.58		
4-D.a-14-2	Supply and install sink for kitchenette W=1800	no.	2.00	2.00		
4-D.a-14-3	Supply and install sink for kitchen W=6000	no.	1.00	1.00		
4-D.a-14-4	Supply and install sink for laundry W=2900	no.	1.00	1.00		
4-D.a-14-5	Supply and install sink and iron table for laundry W=4700+1950	no.	1.00	1.00		
4-D.a-14-6	Supply and install iron table for laundry W=3120	no.	1.00	1.00		
4-D.a-14-7	Supply and install Vanity unit for toilet L=1800	no.	1.00	1.00		
4-D.a-14-8	Supply and install Vanity unit for toilet L=1700	no.	1.00	1.00		
4-D.a-14-9	Supply and install Vanity unit for toilet L=2600	no.	1.00	1.00		
4-D.a-14-10	Supply and install Vanity unit for toilet L=3200	no.	1.00	1.00		
4-D.a-14-11	Supply and install Vanity unit for toilet L=3500	no.	1.00	1.00		
4-D.a-14-12	Supply and install Vanity unit for toilet L=3750	no.	1.00	1.00		
4-D.a-14-13	Supply and install Vanity unit for toilet L=4000	no.	1.00	1.00		
4-D.a-14-14	Supply and install water block, H=150, W=140 cement trowel finish	l.m.	8.20	8.20		
4-D.a-14-15	Supply and install stainless steel grating and angle (nonslip) W=250, H=25	l.m.	10.97	10.97		
4-D.a-14-16	Supply and install Down Pipe PVC D-150	l.m.	106.60	106.60		
4-D.a-14-17	Supply and install rain water splash block	no.	1.00	1.00		
4-D.a-14-18	Supply and install stairs from concrete are made. Type 1	no.	1.00	1.00		
4-D.a-14-19	Supply and install Oil separator	no.	1.00	1.00		
4-D.a-14-20	Supply and install net fence H=900	l.m.	54.25	54.25		