QUANTITY CALCULATION

BUILDING WORK

[3E;CARGO GATE]

AUGUST 2002

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[3E03 CONCRETE AND FORMWORK

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m .		Concrete	Forming				Ste	el Bar (m	>					
Page	Item	(m3)	(m2)	D10	D13	D16	D19	D22	D25	D29	D32	Total(ton)		
1	Foundation	46.89	99.00		1394.0			614.0	180.0				1	
2	Foundation Beam	80.74	406.62	670.0	3192.0				2428.8					
3	Foundation Beam	2.46	16.38	34.0	129.2				123.6				-	
4	Misc.	9.20	103.65	822.8										
5	Column	3.34	32.00	114.8	2235.2				1489.6		1			
6	Column	32.43	317.44	637.6	2059.2				1833.3				1	
	Beam	16.98	143.20	683.6	684.0				815.8					
8	Slab	20.06		2747.2										
	Slab	40.34		673.0]	· .
10	Slab	14.23	80.64	1606.2	32.4					P			A TION	
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												-Detailed	Design	. *
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Foundation		193.82	554.00	7989.2	9726.0	1	· ·	614.0	6871.1					•
Above FL	Sub-Total	72.83	644.93	1909.2	9720.0			014.0	0071.1					
			eght (m/kg)	0.56	0.995	1.56	2.25	3.04	3.98	5.04	6.23		1	
				j									1	
		Net We	ght (ton)	4.47	9.68			1.87	27.35			43.36	1	
		Gross	Weght											
		including los		4.65	10.06			1.94	28.44			45.10	1	

NIPPON KOEI CO., LTD. July 2002 Ľ

1 of 1

[3E03 CONCRETE AND FORMWORK]

SUMMARY OF FL BASE (1)

146

Floor	Fundation	Foundation Beam	Foundation Slab	Column	Beam	Sub-Beam	Slab	Wall	Stair	Misc.		Floor Area	m3/Floor Are
FL	46.89	83.19		3.34		1	60.40			1	 193.82	2	
1FL			9.20	32.43	16.98		14.23				 72.83	3	
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	46.89	83.19	9.20	35.77	16.98	0.00	74.63		<u> </u>		 266.60		
Total	40.09	03.19	5.20		10.90	0.00	/4.00				 		i
3/F Area		• • •								[1
eren gebeur gebeur			Foundation	·						Misc.	Total		ł
Floor	Fundation	Foundation Beam	Foundation Slab	Column		FORMING (Sub-Beam		Wall	Stair	ļ	Total	Floor Area	ŀ
Floor IFL		Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor 1FL	Fundation	Foundation Beam	Foundation Slab	Column 32.00		Sub-Beam				ļ	Total	Floor Area	ŀ
Floor IFL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor 1FL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor 1FL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	
Floor IFL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor IFL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor 1FL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	
Floor 1FL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor IFL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab			ļ	Total 554.00	Floor Area	ŀ
Floor 1FL	Fundation	Foundation Beam	Foundation Slab	Column 32.00	Beam	Sub-Beam	Slab	Wall	Stair	Misc.	Total 554.00 644.93	Floor Area	
Floor 1FL	Fundation 99.00	Foundation Beam 423.00	Foundation Slab	Column 32.00 317.44	Beam 143.20	Sub-Beam	Slab 80.64	Wall	Stair	Misc.	Total 554.00 644.93		
Floor 1FL 1FL	Fundation	Foundation Beam 423.00	Foundation Slab	Column 32.00 317.44	Beam	Sub-Beam	Slab	Wall	Stair	Misc.	Total 554.00 644.93		
Floor IFL 1FL TCtal	Fundation 99.00	Foundation Beam 423.00	Foundation Slab	Column 32.00 317.44	Beam 143.20	Sub-Beam	Slab 80.64	Wall	Stair	Misc.	Total 554.00 644.93		
Floor FL 1FL	Fundation 99.00	Foundation Beam 423.00	Foundation Slab	Column 32.00 317.44	Beam 143.20	Sub-Beam	Slab 80.64	Wall	Stair CA	Misc.	Total 554.00 644.93		ŀ

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NIPPON KOEl CO., LTD. July 2002

[3E03 CONCRETE AND FORMWORK]

SUMMARY OF FL BASE (1)

Floor	Fundation		Foundation Slab			Sub-Beam		Wafi	Stair	Misc.				Total	Floor Area	kg/Ficor Are
-1FL	4,128.8	14,411.7		8,545.6		, ; ; ;	2,960.9			, 			·	30.046.9		
HIFL				10,090.5	4,482.9		0.0							15,052.6		
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	4 4 9 9 9	4444	470.0	10 000 4	4,482.9		2,960.9							45,099.5	1	
Total	4,128.8	14,411.7	4/9.2	18,636.1	4,482.9	<u></u>	2,900.9							40,099.0		
g/F Area	·						j	-		i						
kg/m2												1				
	Nutrie and	e este la regional de	AN A CHARGE AND A			STEEL BAR	Therefore		and the second second	den ywraid affir	0003.LL		المراجعة والعاد	o in service	(T. S. Starley and S.	
Part	D10	D13	D16	D19	D22	D25	D29	D32								
oundation		1,442.5	0.0	0.0	1,941.2	745.1				4,128.8		<u> </u>				
oundation Beam	410.0	3,436.8				10.564.9				14,411.7	?			وی ولیدار میبارد و برد از م این و برد از میبارد از می		· · · · · · · · · · · · · · · · · · ·
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Column	438.2	4,443.81	L	4		13.754.1	ł			10.030.11	E.				14510C	
	438.2 398.1	4,443.8				13,754.1 3,376.9				4,482.9	[, –	
Beam									·····			0			ation Pro	ject
Column Seam Sub-Beam Slab	398.1											0	n Port	Reactiv	ation Pro	
Beam Sub-Beam Slab		707.8								4,482.9			in Port	Reactiva Union	, –	
Beam Sub-Beam Slab Vall	398.1	707.8								4,482.9			in Port	Reactiva Union	ation Pro	
Beam Sub-Beam Slab Vall	398.1	707.8								4,482.9		CAL	in Port in Li C FILE	Reactiva Union No.:	ation Pro Province	
Beam Sub-Beam Slab Vall	398.1	707.8								4,482.9		CAL	in Port in Li C FILE	Reactiva Union	ation Pro Province	
Beam Sub-Beam	398.1	707.8								4,482.9		CAL	in Port in Li C FILE	Reactiva Union No.: (No.:	ation Pro Province	SE 142
3eam Sub-Beam Slab Vall	398.1	707.8								4,482.9		CALC	in Port in L C FILE	Reactiv Union No.: (No.:	ation Pro Province PAC	SE 742 DATE
ieam Jub-Beam Jiab Vall	398.1	707.8								4,482.9		CALC	in Port in Li C FILE	Reactiv Union No.: (No.:	ation Pro Province PAC	SE /42 DATE
eam ub-Beam lab vall tair	398.1	707.8	0.0	0.0	1,941.2	3,376.9				4,482.9		CALC CALC PRE	in Port in L C FILE C INDE	Reactivi I Union No.: (No.: II BY 9	ation Pro Province PAC	SE 142
ieam Jub-Beam Jiab Vall	398.1 2,927.4	707.8 33.5	0.0	0.0	1.941.2					4,482.9		CALC CALC PRE	in Port in L C FILE C INDE PARED CKED (Reactivi I Union No.: (No.: II BY 9	ation Pro Province PAC	SE /42 DATE

NIPPON KOEI CO., LTD. July 2002

2 of 2

Quantity Calculation Sheet Cargo Gate

D25 0.30

D22 0.27

D16

0.17

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0,23

D10

0.10

Hook

013

1 0.14

D29 D32 0.35 0.38

Detail design on Port Reactivation Project in La Union Province

FOUNDATION QUANTITY CALCULATION

148

$(x,y) \in [2,\infty)$						1.1								-150	0.15	0.20	0.24	0.29	0.33	0.38	0.44	0.48
· · · ·														25d 35d	0.25	0.33	0,40	0.48	0.55	0.63	0.73	1.12
												14 J.		400	0.35	0.52	0.50	0.76	0.88	1.00	1.16	1.28
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Symbol	Width (m)	Length (m)	Thick (m)	Q'ty	Total (m3)	Width (m)	Length (m)	Q'ty	Total (m3)	Symbol	Dia (mm)	Length (m)	Nos	Qʻty	D10	D13	D16	D19	D22	D25	D29	D32
F-1	1.70	1.70	0.55	10	15.90	6.80	0.55	10	37.40	B,L	22	1.70				지수는 가는 요즘	سبيعة يستنبيت		272.0		ta di Santa (Santa) (Santa (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (Santa) (S	2,285, 1997, 11
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					in finan an in first			10	44:00	<u> </u>		4.00	40		신문/영광 문소의				342.0	ter balle som en en en er er er er er er er er er er er er er		a Nora Marana Kabupatén Perse
F-2	1.90	1.90	0.55	10		7.60	0.55	10	41.80		22 13	1.90 2.90	18 18	10 10	دىنىدەر ئەتلەت ئىلار بىدۇر بەتلەتكىرى بۇر	522.0	15 . Attractions Constant		, <u>(</u> , , , , , , , , , , , , , , , , , , , 	and an and a second second second second second second second second second second second second second second		
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F-3	2.25	2.25	0.55	4		9.00	0.55		19.80	BI	25	2.25	20	- 4						180.0		
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NIPPON KOEI CO., LTD. July 2002

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FOUNDATION BEAM QUANTITY CALCULATION

														Hook	0.10	0.14	0.17	0,23	0.27	0.30	0.35	0.38	7		
														250	0.15	0.20	0.24	0:29	0.33	0.38	073-	T 0.80	-		
														350		0.46	0.56	0.67	0.77	0.88	1.02	1.12	1		
														-4CC*	0,40	0.52	0.64	0.76	0,88	1.00	1.16	1.28	<u> </u>		
 .			NCRETE		<u> </u>	r	EAO	MING	0	1						STEE	L BAR						٦		
Symbol		Length (m)		 Q'ty	Total (m3)	Width (m:)	Length		Total (mZ)	Symbol	Dia (mm)	Length (m ⁻)	Nos	Q'ty	D10	D13	D16	D19	D22	D25	D29	D32			i.
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NIPPON KOEI CO., LTD. July 2002

1 of 2

FOUNDATION BEAM QUANTITY CALCULATION

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۰.	26	-0.25	0.33		0.48	0.55	0.63	0.73	080
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NIPPON KOEI CO., LTD. July 2002

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NIPPON KOEI CO., LTD. July 2002

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			· · · ·					1	ALC INDE		T	PAGE /	47	Hook	D10 0.10	0.14	0.17 0.24	0.23	0.22	D25 1 0.30	0,35	0.38
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8-10	0.30	0.65	3.10	4	2.42	1.60	3.10	4		1.B B.B	25		4				and a started			81.6		
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	<u> </u>	<u> </u>		1	16.98		{	<u>, </u>	143,20	1		}		(m)	683.6	684.0		<u> </u>		815.8		
Sub-Total		·····		·[·				(kg)	382.8				1	3247.0	}	

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NIPPON KOEI CO., LTD. July 2002

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Dotail daci	on on Po	rt React	ivation I	Project in La Ur	ion Pro	vince			etailed	-		H		•				(Juantity	Calculat	ion Shee
Jetan desi	gn on Fo	n neaca	valion r	noject in La Or				on Port	Reactiv	ation P	roject										argo Gate
	÷							in L	a Union	Provinc											.
SLAB C	JUANT		LUCU	LATION			C.	LC FILE	No.:				· ·								
		••••								1.				010	I D13	D16	D19	1 D22	D25	D29	1 D32
							A D	LC INDE	X NO.:		AGE /	48	Hock 15d	0.10	0.14	0.1/	0.23	0.27	0.30	0.35	0.38 0.48 0.80
							1		1	NITIAL	DAT	E	250	0.25	0.33	0.40	0.48	0.55	0.63	0.73	0.80
							DE	EPARED		07	Ju		35d 40d	0.35	0.46	0.56	0.67	0.77	0.88	1.02	1.12
							- سبا ا			1-4	1.10	64									
			NCRETE						фY	04	Au	m	·,		STEE	LBAR		·	·		
Symbol	Width (m_)	Length (m)	Thick (m)	Q'ty Total (m3)	Width (m)	Length (m.)	d ty	(m ^Z)	Symbol	(mm)	engin (m)	Nos	Q'IY	D10	D13	- D16	D19	D22	D25	D29	D32
1F	3.15	5.601	0.15	4 10.58	<u></u>		<u> </u>	<u> </u>	S.Top	10	3.60	29	4			Sec. 22	a the Continues	ೆ ಸ್ಪೇಟ್ಯಾಗಿ	152 194	a thui ann	Sec. Sec. 2
S3		i						and the second	S.Bom	10	3.60	29	4	417.6		$\mathbb{C}^{(M) \times \mathbb{C}}$	Sec. 1	i palo si ng ji		18-52 B (2)	
2-3,4-5								a shekara i	L.Top	10	6.00	14	4	336.0				$(1,1) \in \mathbb{N}$	10.21.22	a series a	
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				2 S A S S A S		 -	<u>į </u>							74 - Miria	en 1996 - 199		<u></u>	200 ga (1997) 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1000		
	1.53	3.15	0.15	2 1.45				<u> </u>	S.Top	10	2.00	17 17	2	68.0 68.0							<u> </u>
									S.Bom L.Top	10	2.00	14	2	100.8							
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				127 E 11 - 17		1	_		L.Top	10	3.65	14	2	102.2			1. No. 1.			이 방송 도	
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	0.3	3.15	0.15	2 0.28		·}	<u> </u>		S.Top S.Bom	10	0.80	17	2			1.5.5.5.5.5. 1.5.5.5.5.7.7	-				
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	3.15	2.50	0.15	4 4.73					S.Top	10	2.90	17	2	98.6		2.00	19.000			1	
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									L.Bom	10	3.60	11	2	79.2							
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Sub-Total	·								· -				(kg)	1538.4			†			1	

NIPPON KOEI CO., LTD. July 2002

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Deta	il desig	n on Pa	rt Reacti	ivation F	Proje	ct in La Un	tion Prov	vince	1	on Port											luanuty	Carculat Ca	argo -
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C 1										LC FILE						· .					÷		. •
51	LABG	UANI		LUCU	LAI										Haak	010	D13	D16	D19	D22	D25 0.30	D29 0.35	- D
		;								LC INDE		12		<u>47</u>	15d	0.10 0.15 0.25	0.14 0.20 0.33	0.17	0.23	0.27 0.33 0.55	0.38	0.44	0.
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. 33	ymbol	(m.)	Length (m_)	Thick (m)	Q'ty	Total (m3)		(m:)	any	(m ^z)	Symbo		(m).	Nos		D10	D13	D16	D19	D22	D25	D29	
Ŧ		2.60	4.83	0.25	12	37.67				<u> 2012 - 2015</u> - 2017 -	S.Top S.Bom	13	18.64 18.64				633.8 633.8	<u>ರುವುದೆ. ಇವರಿ</u> ಮನ್ನು ಸಮ			d secondaria	-	+
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È						202 4. 201					L.Bom	13	5.87	12	12		845.3			<u>2 67 e</u>			
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1&	<u> </u>						· · · · · ·				L.Bom	10			2	240.0				14 1, 10 19 49 49		1 120	
											0.700	13	0.82	12			39.4				1997 - 19		
		0.30	2.80	0.15	4	0.50					S.Top S.Bom	10	0.82	12	4	24.0	03.4						1
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				<u> </u>		<u></u>		<u> </u>			L.Bom	10	3.00	2	4	24.0							+
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										<u>, a 15 ka</u>						na segundar Tanàna ao							-
⁺⊨				•		40.34		T ⁱ n ·						$\frac{1}{1}$	(m)	673.0					1		÷
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<u> 53</u>	8(CS1)								·		S.Top S.Bom	10	2.40	21		302.4	J <u>L</u> .4					1	
1		• • ,•• • • • • • • • • • • • • • • • • 				·					L.Top	10		11		287.1		1.445.441		4.4			
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=		1	<u> </u>	! T	<u> </u>	14.23	1			80.64	<u> </u> 4	- Harrison de la companya de la companya de la companya de la companya de la companya de la companya de la comp	1	<u> </u>	j(m)	1606.2	32.4	<u> </u>	<u>. </u>	<u>.</u>		†	$\dot{-}$
S	ub-Total		+			14.25	<u>-</u>		1	00.0-	-		- -		(kg)	899.5	32.4 32.2	2	-	1	MOD	W KOE	- co

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MISCE	LLANE	OUS G	UANT	ITY	CALUC	ULATIO	DN		ALC FILE					1			1.1							
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											INITE	AL	DAT	E	25d 35d	0.25	0.33		0.40	0.48	0.55	0.63	1.02	1.12
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W20	0.20	0.40	18.4	4	5,89	0.80	18.60	4	59.52	HB			18.40	3										
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Jub-i utai									1						(kg)	460.8						1		1

NIPPON KOEI CO., LTD. July 2002

LA UNION PORT DEVELOPMENT PROJECT

Quantity Calculation Sheet Concrete Work

	DISCRIPTION & LOCA	ATION TOTAL Q	ty SUB TOTAL				···		CAL	CULAT	ION				_
	CARGO GATE														
	S3 PRECAST PRESTRES	S DECK t=150					1								_
	& CONCRETE TOPPING t	=50													
***		64.9	8 m2				1								
	2F	64.	98												
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CARGO GATE

QUANTITY CALCULATION SHEET CARGO GATE

ITE		LOCATION	DISCRIPTION	Qty	UNIT		FL	CALCULATION	kg/m	Loss %	+Loss 5% TOTAL	МЕМО
	UМ	(Axis)1-2,7-8 A~B C3	W8x31 →H-203x203x7x11	580.9	kg	<u>1F</u>		3.0*4	46.1	5	580.9	
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QUANTITY CALCULATION SHEET CARGO GATE

ITEM	LOCATION	DISCRIPTION	Qty	UNIT		FL	CALCULATION	kg/m		+Loss 5% TOTAL	MEMO
	1~2,5~6問 B1	W10x21 →H-200x100x5.5x8	· · ·		ROOF		3.3*2*8	32.	7 5	1812.9	
	2~3,4~5間 B1						2*2*8		7 5	1098.7	
	3~4間 B1						2.9*2*4	32.	7 5	796.6	
BEAM	1~6 通 B2	₩12x40 → <u>⁄1H-300x</u> 200x7.5x13	8884	kg	ROOF		23.7*6	59.	5 5	<u>8883.9</u>	•
	· · · · · · · · · · · · · · · · · · ·										
BEAM	A,Dìß B3	W8x18 →H-206x133x6x8	4729	kg	ROOF		3.3*2*4+2*2*4+2.9*2*2	26.	8 5	1519.6	
· · · ·	1-6通 B3				ROOF		2.63*2*5+5.85*3*5	26.	8 5	3209.4	
	STAIR	W8x31									
BEAM	B13	→H-203x203x7x11	155	kg			1.6*2	46.	1 5	154.9	
STUD	ROOF C4	<u>₩5*19→H-130*127*7*11</u>	446	kg	ROOF		1.5*5*2	28.3	0 5	445.70	** ** · · ·
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		 						on Por	t Read	d-Design tivation	Project
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2of4

CHECKED BY LOLP Aujor

QUANTITY CALCULATION SHEET CARGO GATE

ITEM	LOCATION	DISCRIPTION	Qty	UNIT		FL	CALCULATION	kg/	Loss m %	+Loss 5% TOTAL	MÉMO
UB .	A~D通,1~6問	C4x5.4	1	Ī					Ì		
EAM	<u>B4</u>	→[-100x40x5x8	658	kg	ROOF		(3.2+1.9)*2*6+2.8*2*3	8.	03 5	657.7	
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	B-C間	C10x25	0075		05		4.93*4+3.3*5+4.15*2+3+5.6	Q.	.2 E	2074.9	
EAM	B11	\rightarrow [-250x75x11×13	2075	kg	<u>(2</u> Г		4.55*4*5.5*5*4.15*2*5*5.0		<u></u>	2011.0	
	8 8 9 1	·			· · · ·						
				ĺ				i i			•
UB		C4x5.4									
EAM	84	→[-100x40x5x8	371	kg	ROOF		22*2	8	<u>03</u> 5	371.0	
	 	CA-5 4					· · · · · · · · · · · · · · · · · · ·				
	B4	C4x5.4 →[-100x40x5x8	253	kg	ROOF		3*5*2	8.	<u>03</u> 8	252.9	.
	-		·· ·································				· · · · · · · · · · · · · · · · · · ·				••••
TAIR		C10x25									
EAM	-	\rightarrow [-250x75x11×13	1640.5	kg_			(3.7+1.2+3.3+0.5)*4+1.8*4	3.	.2 5	1640.5	
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QUANTITY CALCULATION SHEET CARGO GATE

ITEM	LOCATION	DISCRIPTION	Qty	UNIT		FL	CALCULATION	kg/m	Loss %	+Loss 5% TOTAL	мемо
BLASIN	2~7通,-A~D-間	N6 BAR									
<u></u>	BR-1	<u>→6 ¢</u>	601	kg	ROOF		(3+2.3)*8+(3.6+3.2)*24+2.5*4+3.5*12	2.22	5	600.5	
				-							
•		· · · ·									· .
URLIN		C-4"*2"*3/64" POLIN	1408	kg	ROOF		(3.3+2)*4*24+2.9*2*24	2.07	5	1408.4	
			· · · · · · · · · · · ·				1				
AFTE		C-4"*2"*3/64" POLIN	304.3	kg	ROOF		(3.5*2+2.5*2+2)*2*5	2.07	5	304.3	
						1					
STUD		L-50*50*4	401.3	kg	BRIDGE WALK		1.2*91	3.5	5	401.3	
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	RB, C(LGS);TOTAL		2,715	<u>kg</u>						d Design	
				1						tivation P	
	SUB TOTAL		26,214	kg			CA		<u> </u>	on Provinc	Ce
	GUSSET PLATE H.T.Bolt ,etc	*7%	1,835	1						P	AGE /5
	TOTAL		28,049							INITIAL 9. F	
		!						ECKED F		Colu	

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PAINTING ON STEEL

QUANTITY CALCULATION SHEET CARGO GATE

TEM	LOCATI		DISCRIPTION	Qty	UNIT		FL	CALCULATION	m²/m	Loss %	+Loss 5% TOTAL	мемс
	(Axis)1-2,5-6 A C3	~ Β	W8x31 →H-300x150x6.5x9	22.09	<u>m2</u>	1F		<u>2.8*2+5.45+3.5*2+5.45</u>	0.94		22.09	
EAM			W10x21	97.74	m2	ROOF		(3.85*2)*2*4+(3.7*2)*1*4	0.82		74.78	
	C,D通 1-2&2-5 B1	[]]						(3.5*2)*2*2	0.82		22.96	
EAM			W12x40	142.34	m2	ROOF	······	11.6*2	1.28		29.70	
	2~5通 -A~D- <u>B2</u>	-囧 		· · · · · · · · · · · · · · · · · · ·		ROOF		22.0*4	1.28		112.64	
EAM		· · · · · · · · · · · · · · · · · · ·	W8x18	114.38	2	ROOF		(3.5*2)*2*2	0.68		19.04	
,	-A,D-通,2~5間 <u>B3</u> 1-~-6通,A~D		· · · · · · · · · · · · · · · · · · ·		.	ROOF	•	(3.85*2)*2*2+(3.7*2)*3	0.68		36.04	
	<u>B3</u>					ROOF		<u>5.9*(3*2+5)+1.91*3*2+2.71*2*2</u>	0.68		59.30	
EAM	A~D通,2~5間 <u>B4</u> B-C通,1-2&5-6		C4x5.4	22.36	m2	ROOF		(3.85*2)*2*3+(3.7*2)*3	0.27		18.47	· · · · · · · · · · · · · · · · · · ·
	B4				••••• ·	ROOF		3.6*2*2	0.27		3.89	
EAM	manual defenses and a second sec		C10x25	52.02	<u>m2</u>	2F		4.6*2*2	0.90		16.56	
	1-2,5-6通,A-B <u>B11</u> B-通,2~5間		CALCULATION Detailed-Design			2F		0.8*2	0.90		1.44	
	B11		Port Reactivation Project in La Union Province FILE No.:			2F		<u>6.4*2*2+5.1*2</u>	<u>0.90</u> 0.90		34.02	
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PAINTING ON STEEL

QUANTITY CALCULATION SHEET CARGO GATE

ITEM	LOCATION	DISCRIPTION	Qty	UNIT		FL		m²/m	Loss %	+Loss 5% TOTAL	мемо
BLASI	2~5通,-A~D-間 BR-1	N6 BAR →6 φ	6.37	m2	ROOF		4.2*1.25*4*2*3+4.0*1.25*4*3+3.8*1.25*2*2* 2+3.5*1.25*2*2	0.02		4.83	
	1~6通,-A&E-問 <u>BR-1</u>				ROOF	. 	4.0*1.25*4*2+3.7*1.25*2*2*2	0.02	2	1.54	
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QUANTITY CALCULATION

BUILDING WORK

[3F; POWER SUPPLY STATION]

AUGUST 2002

INIPPON KOEI CO., LTD.

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- **2**

LA UNION PORT DEVELOPMENT PROJECT BUILDING WORK

168

Quantity Calculation Sheet Piling Work

PAY	_DING WORK				
ITEM NO	DISCRIP		TOTAL Qty	UNIT SUB TOTAL	CALCULATION
3F02	POWER SUPPLY S	TATION			
*	P1	400 *400	21	Nos	
•	CONCRETE		23.52	m3 23.52	32 1.12 * 21
	STRAND ROPE		882.00	-	
•	$(6-\phi 1/2'')$		002.00	882.00	0 42.0 * 21
. •	D16		639.45	Kg 639.45	15 30.45 * 21
•	D10 (SPIRAL)		1900.50	Kg 1900.50	50 90.5 * 21
•		· · ·			
		· .		·	

CALCULATION Detailed Design on Port Reactivation Project in La Union Province CALC FILE No.: CALC INDEX No.: PAGE /62 INITIAL DATE PREPARED BY 97 Jul.02 CHECKED BY 014 Sugar

PILE

POWER SUPPLY STATION

LA UNION PORT DEVELOPMENT PROJECT

SUMMARY OF CONCRETE/FORMING/REINFORCEMENT BAR ITEM BASE

[3F03 CONCRETE AND FORMWOF]

	JEUS CONCE	CONCRETE					REINFORC	EMENT BA	R (m)				
1	ITEM	(m3)	(m2)	D10	D13	D16	D19	D22	D25 1	D29	D32	TOTAL	
	FOUNDATION	44.76	89.80	-	655.60	896.60					- -		
2	FOUNDATION BEAM	54.56	311.78	1647.58	325.90	120.86		2059.60			·····		
3	FOUNDATION	31.12	207.46	1892.29	181.20	78.12		662.68					
4	COLUMN (-FL)	3.44	30.60	841.50				582.08					
5	COLUMN (+FL)	15.84	140.76	566.10				418.88					
6	BEAM SLAB	35.77	334.68	2794.55	480.00	735.16	136.92	1192.96					
7	(-1FL)	55.36		4109.24	2601.94			·				 	
8	(+1FL)	40.21	335.12	6016.00	1688.00			·			••••••••••••••••••••••••••••••••••••••		
					<u>x</u> · ·							CALCU	ATION
												Detailed	Design
											on	Port React in La Unio	vation Project
								·			CALC	FILE No .:	F FIOATICE
												INDEX-No .:	PAGE /63
													INITIAL DATE
	-										PREPA	RED BY	4-F Julioz
	-										CHECH		at Augor
-FL +FL	SUB TOTAL	189.24	1450.20	17867.26	5932.64	1830.74	136.92	4916.20					
+FL		91.82	ight(KS/m)	0.56	0.995	1.56	2.25	3.04	3.98	5.04	6.23	<u> </u>	
			18111115/18/	0.50	0.330	1.30	2.20		0.50		<u> </u>		
		Weight N	ET (ton)	10.01	5.90	2.86	0.31	14.95				34.02	
		Weight+Lo	ss 4%(ton)	10.41	6.14	2.97	0.32	15.54				35.38	

POWER SUPPLY STATION

SUMMARY OF CONCRETE/FORMING/RE-BAR FL Base (1)

[3F03 CONCRETE AND FORMWORK]

	FOUNDATION	FOUNDATION BEAM	FOUNDATION SUB BEAM	COLUMN (-FL)	COLUMN (+FL)	BEAM		SLAB (+1FL)		TOTAL
iFL	44.76		31.12				55.36			189.2
IFL					15.84	35.77		40.21		91.8
				}		 				
									· · · · · · · · · · · · · · · · · · ·	
TOTAL	44.76	54.56	31.12	3.44	15.84	35.77	55.36	40.21		
						1				
	des appels			ta da ser est	an an an an an an an an an an an an an a	FORMING (m	2)			
		FOUNDATION	FOUNDATION SUB BEAM				SLAB	SLAB (+1FL)		TOTAL
IFL	89.80	311.78				1				639.0
1FL					140.76	334.68		335.12		810.
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			1	ł						
					· · · · · · · · · · · · · · · · · · ·	-				
		······································								
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				· · · · · · · · · · · · · · · · · · ·						
		311.78	207.46	30.60	140.76	334.68	0.00	335.12	CALCULATION	1450.:
TOTAL	89.80	311.78	207.46	30.60	140.76	334.68	0.00	335.12	Detailed Design	1450.2
TOTAL	89.80	311.78	207.46	30.60	140.76	334.68	0.00	335.12	Detailed Design on Port Reactivation Project	1450.2
TOTAL	89.80	311.78	207.46	30.60	140.76	334.68	0.00	335.12	Detailed Design on Port Reactivation Project in La Union Province	1450.2
TOTAL	89.80	311.78	207.46	30.60	140.76	334.68	0.00	335.12	Detailed Design on Port Reactivation Project in La Union Province CALC FILE No.:	
TOTAL	89.80	311.78	207.46	30.60	140.76	334.68	0.00	335.12	Detailed Design on Port Reactivation Project in La Union Province CALC FILE No.: CALC INDEX No.: PAGE /64	
TOTAL	89.80	311.78	207.46	30.60	140.76	334.68	0.00	335.12	Detailed Design on Port Reactivation Project in La Union Province CALC FILE No.:	

POWER SUPPLY STATION

SUMMARY OF CONCRETE/FORMING/RE-BAR FL Base (2)

[3F03 CONCRETE AND FORMWORK	:]

	FOUNDATION	FOUNDATION BEAM	FOUNDATION SUB BEAM	(-FL)	COLUMN (+FL)	BEAM	(-1FL)	SLAB (+1FL)			1	
FL	2,133.1		3,511.4	2,330.4			5,085.7	EAEAE				14,31
FL					1,654.0	7,409.0		5,250.5				
			·									
				<u> </u>						· · · · · · · · · · · · · · · · · · ·		
						7,100,0	5 00F 7	5,250.5		<u> </u>	1	35,37
TOTAL	2,133.1	8,004.5	3,511.4	2,330.4	1,654.0	7,409.0	5,085.7	5,250.0				
			1					-				
kg/m2			1			<u> </u>						
e provinski s	$p \in [1, \frac{1}{2}] \cap [2^{\frac{1}{2}} + 2^{\frac{1}{$		an an tha an tao	en se déregié		RE-BAR (kg)		ene pri statu una energie e	ang bagin ang baga sa	<u> 같이 지지 않는</u>		
	D10	D13	D16	D19	D22	D25	D29	D32				TOTAL
	0.0	678.4	1,454.6	0.0	0.0	·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		2,13
UNDATION	959.5	337.2	196.1	0.0	6,511.6							8,00
UNDATION	1,102.1	1			}							3,51
	1.102.1	187.5	120.	/0.0	2,030,1		•••			······································		2,33
JE BEAM								1 1				2,00
FL) İ	490.1	0.0	<u>) </u>	0.0	1,840.3		ļ 					
FL) DLUMN						1		· · · ·				1,65
FL) DLUMN FL)	<u>490.1</u> 329.7	0.0	0.0	0.0	1,324.3					· · · · · · · · · · · · · · · · · · ·		<u> </u>
FL) DLUMN FL) AB	490.1 329.7 1,627.5	0.0	0.0 7 <u>1.192</u> .1	0.0 7 <u>32</u> 0.4	1,324.3 3,771.7	· · · · · · · · · · · · · · · · · · ·				CALCUL	ATION	
FL) OLUMN FL) EAM _AB 1FL) _AB	490.1 329.7 1,627.5 2,393.2	0.0 496. 2.692.	0.00 7 <u>1.192</u> .7 5 <u>0.0</u>	0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0		· · · · · · · · · · · · · · · · · · ·			CALCUL	the second second second second second second second second second second second second second second second s	7,40
JB BEAM OLUMN FL) OLUMN FL) EAM LAB LAB -1FL) LAB -1FL)	490.1 329.7 1,627.5	0.0 496. 2.692.	0.00 7 <u>1.192</u> .7 5 <u>0.0</u>	0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0		· · · · · · · · · · · · · · · · · · ·		on I	Detailed	Design	7,40
FL) DLUMN FL) _AB _IFL) _AB	490.1 329.7 1,627.5 2,393.2	0.0 496. 2.692.	0.00 7 <u>1.192</u> .7 5 <u>0.0</u>	0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0		· · · · · · · · · · · · · · · · · · ·			Detailed Port Reacti	Design vation Project	7,40
FL) DLUMN FL) AB AB 1FL) AB	490.1 329.7 1,627.5 2,393.2	0.0 496. 2.692.	0.00 7 <u>1.192</u> .7 5 <u>0.0</u>	0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0				- i	Detailed Port Reacti In La Unior	Design	7,40
FL) OLUMN FL) EAM _AB 1FL) _AB	490.1 329.7 1,627.5 2,393.2	0.0 496. 2.692.	0.00 7 <u>1.192</u> .7 5 <u>0.0</u>	0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0				CALC F	Detailed Port Reacti In La Unior ILE No.:	Design vation Project n Province	7,40 5,08 5,25
FL) DLUMN FL) AB AB 1FL) AB	490.1 329.7 1,627.5 2,393.2	0.0 496. 2.692.	0.00 7 <u>1.192</u> .7 5 <u>0.0</u>	0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0				CALC F	Detailed Port Reacti In La Unior	Design vation Project Province PAGE /6:	7,40 5,08 5,25
FL) DLUMN FL) AM AB IFL) AB	490.1 329.7 1,627.5 2,393.2	0.0 496. 2.692.1 1.746.	0 <u>0.0</u> 7 <u>1.192</u> 5 <u>0.1</u> 7 <u>0.1</u>	0 0.0 7 <u>320.4</u> 0 0.0	1,324.3 3,771.7 0.0 0.0		0.		CALC F	Detailed Port Reacti In La Unior ILE No.:	Design vation Project n Province	7,40 5,00 5,25

Power Supply Station

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-03 COM	ICRETE	AND FC		RK]		 	MING		{	<u> </u>	E-BAR				1 I			[
Sumbo	Weath	CONC Length		Qty	m3	Width	T	-	m2	Symbol	-			Qty	D10	D13	D16	D19	D22	D25	D29	
		Y STAT				TTIGUT	Lenger	ury		Gyniodi	0.0		1103									
Base					44.76				89.80						0.00	655.60	896.60	0.00	0.00	0.00		
FG				 	54.56				311.78						1647.58	325.90	120.86	0.00	2059.60	l 0.00	0.00	
FB	;			((<u> </u>			 	207.46		 				1892.29	181.20	78.12	0.00	662.68 	1	0.00	
FG+FB			85.68	1			519.24								3539.87	507,10	198.98	0.00	2722.28	0.00	0.00	
C(1,FL	<u> </u>	· · · · · · · · · · · ·		 	3.44				30,60] : 841.50]	0.00	0.00	0.00	 582.08 		0,00	
	.)				15.84			 	140.76				 	 	566.10	000 		0.00	418.88		0.00	
C SUM			19.28				171.36								1407.6	0.0	0.0	0.0	1001.0	0.0	0.0	
RG(2G) 			- l - l	16.73				119.91	·			 	 	 1405.25 	290,00	0.00	0.00	1192.96	0.00	0.00	
) 				19,04			· 7	214.77						1389;30			136,92	0.00	1	0.00	
RG+RE			35.77				334.68				_				2794.6	480.0	735.2	136.9	1193.0	0.0	0.0	
1F Slat)		·····	. 	55.36				0.00						4109.24	2601,94	0.00	0.00	0.00	0.00	0.00	
RF Slal	þ				40.21				335.12						6016.00	1688.00	0.00	0.00	0.00	0.00	0.00	· · · · ·
		0.00			281.06		1		1450.20					m	17867	5932.6	1830.7	136.9	4916.2	0.0		
		Slab(oute	r)		4.04									Kg	10005.7	5903.0	2856.0	308.1	14945.2	0.0		
												35.38	x1.04		10.406	6.139	2.970	0.320		1		
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LA UNION PORT DEVELOPMENT PROJECT .

Power Supply Station

T			CONC	RETE			1	FOR	RMING			R	E-BAR										·.
	Symbol	Width	Length		Qty	m3	Width		······································	m2	Symbol	Dia	Length	Nos	Qty	D10	D13	D16	D19	D22	D25	D29	
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-	Base				-		_						<u> </u>	1									
									_					1				130.9					
-	<u>-1</u>	1.10	1.10	0.70	17	14.40	4.4	0 0.7	17	52.36	BL	16 16	1.10	7	<u>17</u> 17			130.9					
- -										<u> </u>	B.L T.L S.B	13 13	2.1 4.0	12			428.4					· · · · · · · · · · · · ·	
_											S.B	13	4.0	2	17		136.0		 				
	F2	2.30	5.50	1.20	2 2	30.36	5 15.6	1.2	0 2	37.44	81	16	2.20	27	2	<u> </u>		118.8					
		2.30	0.00	1.4	<u> </u>	. 00.00		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>		B.L T.L	16	5.40	11	2			118.8					
-			1							1	T.L	16	4.	27	2		ļ	232.2			<u> </u>		
						_					T.L S.B	16 13	7.5 15.2	<u>5 11</u> 2 3			91.2	165.0					
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	FG	ļ														1		<u> </u>		<u> </u>		+	
	FB1	0.35	1.00	5.5	5 8	15.5	4 2.0	00 5.5	5 8	88.88		22	3.1	5 10	8					252.0			
		0.00		0.0	× 2						TB	22	2 2.7	7 3	3 8					66.5			
			_								TB BB BB	22		5 8	3 8 3 8					201.6 66.5			
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_	FB1	0.35	51 1.00	6.5	5 2	2 4.5	9 21	00 6.5	5 2	26.2	тв	2	2 3.	4 1() 2	-				68.0			Reactivation Project
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Power Supply Station

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Svi	mbol Wid				Qty	m3	Width	Length		m2	Symbol				Qty	D10	D13	D16	D19	D22	D25	D29		
			ł		1								1		1							ļ		
FB	1 0	.35	1.00	6.43	2	4.50	2.00	6,43	2	25.72	T8	22	3.36	10	2					67.2 19.4				
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											BB	22	3.30		3 2		1			19.4		[`		
					+						BB BB STR	10	1.9	27	/ 2	102.6								
											W8	10 13 10	6.63	1	2 2		26.5]			ļ		
											Tie	10	0.35		∠]2	4.9								
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4~6 FB		.35	1.00	6.65	2	4.66	2.00	6.65	2	26.60	TR	22	3.42		2 2					54.7			· . ·	
		.50	1.00	0.00	<u> </u>	4.00	2.00	0.00	£	20.00	TB	22	3.33		2					20.0			а	
				• • • • • • • • • • • • • • • • • • • •			·				88	22	3.42	. 8	3 2			1		54.7				
											88 88 STR	22	3.33	28	3 2					20.0	ļ	.] .		
											STR	10	1.9	28	3 2	106.4	07.4	<u> </u>			ļ			
											WB	13 10	6.85 0.35		2 2	5.6	27.4					+		
					┝───						Tie	10	0.33	<u> </u>	<u> </u>			<u> </u>					÷	
FB	1 0	.35	1.00	6.58	2	4.61	2.00	5.58	2	26.32	тв	22	3.41	1 8	3 2					54.6				
			}		1			1			TB BB	22	3.28 3.41	i;	<u>3 2</u> 3 2]	19.7				
						1					BB	22	3.41		3 2	·				54.6				
					÷						BB	22 10	3.28	2	3 2 3 2	106.4				19.7		+		
							·	<u> </u>			STR WB	13	1.9 6.85		2 2		27.4				<u> </u>	+	1.00	
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FB	1 0	.35	1.00	1.67	2	1.17	2.00	1.67	2	6.68	ТВ	22	2.55	1	3 2					40.8				
							.	.			BB STR	22	2.55	<u> </u>	3 2					40.8	<u> </u>			
										<u> </u>		10	1.9	¦	7 <u>2</u> 222		7.5				<u> </u>			
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6 FB	1 0	.35	1.00	3.93	6	8.25	2.00	3.93	6	47.16	ТВ	22	2.78	1() 6				1	166.8				
											TB	22	2.01		3 6					36.2				
						 		ļ			BB	22	2.78	<u> {</u>	3 6					133.4 36.2				
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## LA UNION PORT DEVELOPMENT PROJECT

175

Power Supply Station

Т			CONCR	ÊŤE			······	FOR	AING				-BAR								205	D29
	Symbol	Width	Length	Thk	Qty	m3			Qty		Symbol				Qty	D10	D13	D16	D19		025	DZ9
-6	F81	0.35	1.00	6.43	5	11,25	2.00	6.43	5	64.30		22	3.37	10				<u> </u>				
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Power Supply Station

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5of8

**177** 

## Power Supply Station

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	Symbol	Width	Length	Thk	Qty	m3	Width	Length	Qty	m2	Symbol	Dia	Length	Nos	Qty	D10	D13	D16	D19	D22	D25	D29
* · ·	RG(2G)																					
					1															151.0		
.8.C	B2	0.30	0.40	5.55	8	5.33	0.86	5.55	8	38.18	TB	22 22	3.15	6						151.2		
-4											тв	22	2.77	2						44.3 112.8		
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								6.55	6	33.80	TD	22	3.4	6	6				······································	122.4		
	<u>B2</u>	0.30	0.40	6.55	6	4.72	0.86	0.00	<b>P</b>	33.80	TB	22		- 2		~				39.2		
4-6								·			BB	22		2 6	6 6 6					122.4		
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1-6	B1	0.30	0.40	3.93	6	2.83	0.86	3.93	6	20.28	TB	22	2.74	6						98.6		
A-8		0.00			·   ·····						TB	22 22	1.97	2	6				ļ	23.6		
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	81	0.30	0.40	6.4	3 5	3.86	0.86	6.43	5	27.65		22	3.37 3.21				<u> </u>			32.1		
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							•		-		BB	22	3.21	6	5				<u> </u>	32.1	····	
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6of8

Power Supply Station

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	33	0.25	0.35	4.15	5	1.82	0.95	4.15	5	19.71	B8	16 16	5.43 5.43	2				54.3 54.3					-
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<u>6 Ē</u>	13	0.25	0.35	6.65	4	2.33	0.95	6.65	4	25.27		16	7.93	2	4			63.4			1	<b>.</b>	
4-	<u> </u>							[			BB STR	16 10	7.93	46	4	220.8		63.4			<u> </u>	+	-
				<u>}</u>	+				·		<u> 9111</u>	!⊻	·····	·	† <u>-</u>	220.0				·	1		-
<u>i</u> le	3	0.25	0.35	5.70	2	1.00	0.95	5.70	2	10.83	TB	16			2			27.9					
2 _						ļ		[			88	16		2	2			27.9				<u>-</u>	
											STR	10	1.2	39	2	93.6		•···					
S E	33	0.25	0.35	6,70	2	1,17	0.95	6.70	2	12.73	тв	16	7.98	2	2			31.9					
					<u> </u>						8B	16	7.98	2	2			31.9					
											STR	10	1.2	46	2	110.4							
	34	0.20	0.60	95.00		11.40	1.40	95.00	1.00	133.00	TO	16	95.00	2				190.0					
. 5		0.20	0.00			11.40	- 1.40	- 35.00		130.00	BB	- 16	95.00	2				190.0					
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5 3	1t150	5.35	4.025	0.15	<u>                                     </u>	3.23								1									
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	1t150	6.35	4.025	0.15		3.83		i			S.Bom LTop	10 13	32.3 11.7	20 84	1	646.0	982.8		···				
45	10100	6.35		0.15		3.02	[				LTop	13	3.76	24			982.8						
		6.35	3,10	0.15	1						LTop	13	1.65	24	.1		39.6					CA	CULATION
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7of8

## LA UNION PORT DEVELOPMENT PROJECT

Power Supply Station

			CONC	RETE	<u> </u>		1		FOR	MING			RE	-BAR										
þ	Symbol	Width	Length	Thk	Qt	ty	m3	Width	Length	Qty	m2	Symbol	Dia	Length			D10	D13	D16	D19	D22	D25	D29	
	S1t150		4.025	0,15		1	3.79					LBom	10	11.7			982.8							
		5.975	3.175	0.15	5	1	2.85					L.Bom	10	3.76	24	- 1	90.2 39.6			·····				
		5.975	3.10	0,15	<u>i </u>	1	2.78					L.Bom	10 10	1.65	24 25		150.0							
												L.Bom		0			100.0							
	BERM	53.00	1.50	0.15			11.93		· · · · ·			L. Slab	10	53	6	1	318.0							
		53.00					4.37			•••••		S. Slab		1.75	212	1	371.0							
	000000		0.00		<u> -</u>							S. Wall	10				238.5							
												L. Wall	10	53	3	1	159.0			<u> </u>				
					1					İ			. 1	ta ne n	1	1 - 12	4100.04	2601.94	0.00	0.00	0.00	0.00	0.00	
	1F Slab	SUM	an an g	e da la		n s Ling in	55.36	11 a fi	, in s	41 (1995) 1	0.00	per de	1	e datalaa	i de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la comp	tu air	4109.24	2001.94	0.00	0.00	0.00	0.00		
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1-2	\$2t120	5.70	4.225	0.1	2		2.89	5.70	4,225	1	24.08	S.Top	10	34 28	34									
4												S.Top	30	28	36									
2-3	S2t120	5.775	4.225	0.1	2	1	2.93	5.775	4.225	1		S.Bom	10	34 28	34									
		5.775				1	2.22	5.775		]	18.48	S.Bom	10	12.5	36 113		1008.0	1525.5			• • • • • • • • • • • • • • • • • • • •	-··-		
		5.775	3.15	0.1	2	1	2.18	5.775	3.15	<u>1</u>	8.19	LTop LTop	13 13					162.5					1	
			1005	0.1			2.89	5.70	4.225		24.09	L. Top		13.5	113		1525.5						[	
3-4	S2t120	5.70 5.70					2.09					L.Bom					162.5							
		5.70				- ii-	2.15			t i	17.96													
					=	······				1							į							
4-5	S2t120	6.70	4.225		2	1	3.40	6.70	4.225															
		6.70				1	2.57	6.70	3.20	<u> </u>	21.44		·			·							<u>.</u>	
		6.70	3.15	0.1	2	1	2.53	6.70	3.15	i 1	21.11	.											CA1	LCULATION
	S2t120	6.65	4.225	0,1			3.37	6.65	4,225	7	28.10							<u> </u>					÷	
0-0	SZUZC	6.65		0.1		<u> </u>	2.55		3.20		21,28				1									tailed Design
		6.65				1	2.51		3.15	5 1	20.95							ļ				on	Port-	eactivation Project
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-A	S2t120	33.10	0.55	0.1	2	1	2.18	33.10	0.55	j1	18.21			ļ				-[······	+ <b></b>				+	*
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