Bills of Quantities

LA UNION PORT DEVELOPMENT PROJECT

BIDDING DOCUMENTS

FOR

PACKAGE A : CIVIL AND BUILDING WORKS

VOLUME II-A : BILLS OF QUANTITIES

(1) SUMMARY OF BID PRICE

5 - 7			Amount	
No.	Description	Foreign Currency	Local Currency	Total
		(US\$)	(US\$)	(US\$)
01	CIVIL AND BUILDING WORKS			
	Section 100 - General Requirements			an that from a second
	1A Mobilization/Demobilization		<u> </u>	
1. J. A. A.	1B Temporary Facilities			
	1C Facilities for Employer and Engineer			
	1D Demolition and Clearance of the Site		the second second	
	1E Provisional Sums	300,000	50,000	350,000
	Total of Section 100			
· · ·	Section 200 - Civil Works			
· · ·	2A Dredging Work			
	2B Container Berth Work			
a set	2C Multi-purpose Berth Work			
	2D Passenger Berth Work			
	2E Revetment Work			
1	2F Reclamation Work			
	2G Pavement Work		· · · · · · ·	
I .	2H Drainage Work			·······
	21 Navigation Aids			
	2J Security Fence			
	Total of Section 200		•	· · · · · · · · · · · · · · · · · · ·
	Section 300 - Building Works			
	3A Port Administration Building			
	3B Container Freight Station			
	3C Maintenance and Repair Shop			
· ·	3D Container Gate			
· ·	3E Cargo Gate		- Andrea - A - Andrea - An	
	3F Power Supply Station			
	Total of Section 300	et de la comp		<u></u>

Signature of Bidder:

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

II.A(1) - 1

SUMMARY OF BID PRICE

	Section 400 - Utility Works		
	4A Fire Fighting System	and a start of the	
· .	4B Water Supply System		
	4C Wastwater and Sewer System		
	4D Ventilation and Air-conditioning		
с. 1911 г.	4E Plumbing and Sanitary Appliances		
	4F Transmission Line and Substation		
	4G Emergency Power Generation Equipment		
	4H Power Distribution Equipment		
	4I Cabling and Piping	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	4J Area Lighting System and Power Outlet		
	4K Fire Alarm System		
	4L Telephone/Data Network		
	4M Electrical Work for Building		
	4N Miscellaneuos Equipment		
et et e	Total of Section 400		
02	TOTAL COST OF CIVIL AND BUILDING		
03	CONTINGENCIES (7% of 02)	: ••••	
04	LOCAL TAXES AND DUTIES		
05	TOTAL BID PRICE (02+03+04)		

Signature of Bidder:

COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

LA UNION PORT DEVELOPMENT PROJECT (ES-P5)

BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

LA UNION PORT DEVELOPMENT PROJECT

BIDDING DOCUMENTS FOR PACKAGE A: CIVIL AND BUILDING WORKS VOLUMEN II - A: BILLS OF QUANTITIES

(2) BREAKDOWN OF BID PRICE

Pay Item	Description	Unit	Quantity		Currency S\$)		Currency JS\$)	Total
No.			n an Tha Basel (1996) Maria	Unit Cost	Amount	Unit Cost	Amount	(US\$)
1A	MOBILIZATION AND DEMOBILIZATION							
1A01	Mobilization of dredging fleet and associated equipment for	LS 🖻	1					
1	dredging work Demobilization for Item 1A01	LS	1					
1A03	Mobilization of other construction plant and equipment	LS	1					
	Demobilization for Item 1A03	LS	1					
							f Sub-Section 1A	
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS II.A(2) - 1

BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	-	Currency S\$)		Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
1 B 1B01 1B02 1B03 1B04	TEMORARY FACILITIES Provision of temporary jetty Demolition and clearence for item 1B04 Shooting of Digital Video Films of the Project Compilation and Submission of Digital Video Documentary Film of the Project	LS LS Mon. LS	1 1 36 1					
		-						
۱ <u>ــــــــــــــــــــــــــــــــــــ</u>		<u>_l</u>	. ·			Total	of Sub-Section 1B	
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	Foreign (U	Currency S\$)		Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
1C	FACILITIES FOR EMPLOYER AND THE ENGINEER							· · ·
1C01	Renovation of CEPA's temporary office	LS	-1					
1C02	Maintenance for Item 1C01	Mon.	8	•				
1C03	Construction and furnishing office for the Employer/Engineer	LS	1					
1C04	Maintenance for Item 1C03	Mon.	28					
1C05	Renovation before hand-over for Item 1C03	LS	1					
1C06	Renovation of laboratory	LS	1					
1C07	Provision and maintenace of laboratory equipment	Mon.						
1C08	Provision, maintenance and services of boats for the Engineer	Mon.	36					
1C09	Provision of vehicles Type-A	nos.	1	· · ·				
1C10	Provision of vehicles Type-B	nos.	1					
1C11	Provision of vehicles Type-C	nos.	1					
1C12	Provision of vehicles Type-D	nos.	1					
1C13	Maintenance of vehicles for Type-A, B, C and D	Mon.	36					
1C14	Provision and maintenace of Engineer's survey equipment	Mon.	36	4				
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Total of Sub-Section 1C

Signature of Bidder_

Pay Item	Description	Unit	Quantity		Currency S\$)	, (t	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
D .	DEMOLITION AND CLEARENCE OF THE SITE	· ·,			-			
D01	Demolition and clearence of the building foundation and	LS	1				-	
	others in the project site							
D02	Demolition and clearence of the existing berth and others	LS	1					
	in the projet site							
D03	Demolition and clearence of the trees and others in the	LS	· 1					
	projet site	ĺ						
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Signature of Bidder

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)	(T.	Currency JS\$)	Total
No.		.*		Unit Cost	Amount	Unit Cost	Amount	(US\$)
E01	PROVISIONAL SUMS Additonal geotechnical, environmental, and hydrographic investigations Daywork	LS LS	1		300,000		50,000	300,000 50,000
								· ·
						Total	of Sub-Section 1E	350,00

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	-	Currency S\$)	ד) י	Currency JS\$)	Total
No.	Α	1		Unit Cost	Amount	Unit Cost	Amount	(US\$)
A	DREDGING WORK							
A01	Outer channel dredging (-14.5) offshore dumping	m³	3,120,000					
A02	Outer channel dredging (-14.5) onshore dumping	m³	1,040,000	•			· · ·	
A03	Inner channel dredging (-14.0) offshore dumping	m ³	3,352,000					
A04	Inner channel dredging (-14.0) onshore dumping	m ³	1,117,000		· ·			
A05	Turning basin dredging (-14.0) offshore dumping	m ³	2,092,000	• .				
A06	Turning basin dredging (-14.0) onshore dumping	m ³	698,000					
A07	Passenger turning basin offshore dumping	m ³	70,000			· ·		
A08	Container berth offshore dumping	m ³	243,000					
A09	Multi-purpose berth offshore dumping	m ³	279,000	2]			
A10	West revetment offshore dumping	m ³	385,000					
A11	East revetment offshore dumping	m ³	198,000					
A12	Reclamation area offshore dumping	m ³	481,000	-				
A13	Temporary revelment and bund for onshore dumping	LS	1			·		
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						Total o	f Sub-Section 2A	[
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BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	Foreign ((US			Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
370	CONTAINER BERTH WORK	1						
2B	Rubble mound of caisson							
2001	Rubble mound of caisson	m ³	54,600					•
2B01		m	54,000				¢	
370.0	Asphalt matt	m ²	7,480					
2B02	Asphalt matt	m	7,400					
2B03	Armour stone	m ³	3,820					
2003			5,620					
2B04	Caisson production		. 17		:			
2B04	Caisson production	nos.	1/					
anos	Temporary anchoring of caisson		177		•			
2B05	Temporary anchoring of caisson	nos.	17					
2006	Placing of caisson		17					
2B06	Placing of caisson	nos.	1/					-
an.o.a	Sand filling into caisson	m ³	94 500					
2B07	Sand filling into caisson	m _	84,500					
0000	Cover concrete of caisson	m ³	2,780					
2B08	Cover concrete of caisson	m .	- 2,700					
2B09	Coping concrete	m ³	5,460					
2009	Coping concrete	m	5,400					
an 10	Apron concrete pavement	m ²	7 200					
2B10	Apron concrete pavement	m	7,200					
		· · .						
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Sub-total of this page

Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	Foreign ((U)			Currency S\$)	Total
No.	2 compile			Unit Cost	Amount	Unit Cost	Amount	(US\$)
	Sand protection sheet							
2B11	Sand protection sheet	m	553					
	Backfilling behind caisson							
2B12	Backfilling behind caisson	m ³	49,100					
	Driving of steel pipe pile for crane rail foundation							
2B13	Driving of steel pipe pile for crane rail foundation	nos.	68					
	Concrete for crane rail foundation							
2B14	Concrete for crane rail foundation	m ³	1,160					
	Crane rail with accessories							
2B15	Crane rail with accessories	m	670				:	
2B16	Cable trench	LS						
2B17	Jack-up base	nos.	16					
2B18	End stopper	nos.	4			· ·		
2B19	Socket block	nos.	8				•	
2B20	Crane anchoring frame	nos.	16					
	Fender type A							
2B21	Fender type A	nos.	25					
	Bollard							
2B22	Bollard	nos.	13					
N	Ladder		· .					
2B23	Ladder	nos.	4					
						1	Sub-Section 2B	

Total of Sup-Section

Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description	Unit	Quantity		Currency S\$)		Currency S\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
2C	MULTI-PURPOSE BERTH WORK							
20	Rubble mound of caisson							
2C01	Rubble mound of caisson	m ³	71,400					
2001	Asphalt matt	ш	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
2C02	Asphalt matt	m ²	5,280					
2002	Armour stone	ш	5,200					
2C03	Armour stone	m ³	4,460					
2005	Caisson production	ш	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
2C04	Caisson production	nos.	12					
2004	Temporary anchoring of caisson	103.						
2C05	Temporary anchoring of caisson	nos.	12					
2005	Placing of caisson	103.	. 12					
2C06	Placing of caisson	nos.	12					
2000	Sand filling into caisson							*
2C07	Sand filling into caisson	m ³	59,700					
2007	Cover concrete of caisson	m						
2000	Cover concrete of caisson	m ³	1,960					
2C08		m	1,900					
2C09	Coping concrete	m ³	6,430					
2009	Coping concrete	m	0,450					
1010	Apron concrete pavement	m ²	1,980		ļ			
2C10	Apron concrete pavement	m	1,980					

Sub-total of this page

Signature of Bidder_

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Pay Item	Description	Unit	Quantity		Currency S\$)		Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
	Sand protection sheet							
2C11	Sand protection sheet	m	280					
	Backfilling of caisson							
2C12	Backfilling of caisson	m ³	37,200					
	Driving of steel pipe pile for crane rail foundation							
2C13	Driving of steel pipe pile for crane rail foundation	nos.	. 44					
	Concrete for crane rail foundation							
2C14	Concrete for crane rail foundation	m ³	750					
	Crane rail with accessories					· · .		
2C15	Crane rail with accessories	m	658					
2C16	Cable trench	LS	-1		1	· · ·		
2C17	End stopper	nos.	2			·		
2C18	Socket block	nos.	4	:	•		1	· · .
2C19	Crane anchoring frame	nos.	- 8					
	Fender type A							· ·
2C20	Fender type A	nos.	. 17				· .	
	Bollard							
2C21	Bollard	nos.	1 · · 8					
<i></i>	Ladder	1 .						
2C22	Ladder	nos.	3					
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Signature of Bidder_

Pay Item	Description	Unit	Quantity	-	Currency S\$)	U)	Currency S\$)	Total
No.	*			Unit Cost	Amount	Unit Cost	Amount	(US\$)
			с. н.	•				
2D	PASSENGER BERTH WORK							
	Driving of steel pipe pile							
2D01	Driving of steel pipe pile ϕ 600mm,700mm,1100mm	nos.	37					
	Superstructure		0.00					
2D02	Superstructure	m ³	823					
	Corrosion-proof							
2D03	Corrosion-proof	nos.	43					
10 A	Catwalk							
2D04	Catwalk	nos.	2					
	Fender type B and type C]			
2D05	Fender type B and type C	пos.	18					
	Bollard							
2D06	Bollard :	nos.	7					
	Access bridge							
2D07	Access bridge	nos.	10					
	Ladder							
2D08	Ladder	nos.	7					
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			1.0					
				1				
		1						
			1	L	1	Total a	f Sub-Section 2D	

Total of Sub-Section 2D

Signature of Bidder_

Pay Item	· · · · · · · · · · · · · · · · · · ·	Description		Unit	Quantity	Foreign ((US	Currency S\$)) <u>(</u>	Currency JS\$)	Total
No.		Description				Unit Cost	Amount	Unit Cost	Amount	(US\$)
· .	REVETMENT		· · ·							
E E01	WEST REVETMENT			m	400					
E02	EAST REVETMENT			m	250					" ·
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Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

II.A(2) - 12

BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	Foreign (U	Currency S\$)	π.	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
F F01	RECLAMATION Land reclamation including fill material supply	m ³	1,518,000					
	Land reclamation by dredged materials	m ³	2,855,000		· · .			
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			L	<u> </u>	[Total	of Sub-Section 2F	
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Pay Item	Description	Unit	Quantity	Foreign ((US		<u>س</u>	Currency S\$)	Total
No.		<u> </u>		Unit Cost	Amount	Unit Cost	Amount	(US\$)
								•
G	PAVEMENT							
G01	Concrete pavement type 1 for RTG traffic lane	m ²	8,600			-		
.G02	Concrete pavement type 2	m²	71,200					
G03	Asphalt concrete pavement type 3	m^2	19,000					
.G04	Macadam pavement type 4	m²	16,000					
G05	Macadam pavement type 5	m^2	56,000				· · ·	
2G06	Interlocking concrete block pavement type 6 for sidewalk	m ²	2,600					
2G07	Gravel pavement	m ²	20,250					
2G08	Topsoil and grassing	m ²	13,700		1. 1.			
2G09	Concrete curb type-1	m	3,600					
2G10	Concrete curb type-2	m	2,000	- 14 14				
2G11	Concrete curb type-3	m	1,100					
2G12	Traffic marking	m ²	7,400					
2G13	Traffic sign board	LS	1					
.015						1. 1.		
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Signature of Bidder

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

II.A(2) - 14

Pay Item	Description	Unit	Quantity	Foreign ((US		Local C (US	unebcy S\$)	Total
No.	r	·		Unit Cost	Amount	Unit Cost	Amount	(US\$)
	•	T .						
2H	DRAINAGE							
2H01	Pipe culvert 457mm	M	1,070					
2H02	Pipe culvert 610mm	M	810					
2H03	Pipe culvert 762mm	M	174					
2H04	Pipe culvert 914mm	M	866					
	Pipe culvert 1219mm	M	580					
2H06	Diversion canal type A	M	580		· .			
2H07	Diversion canal type B	M	675		· ·			
2H08	Manhole type 1 with concrete cover	Nos	34					
2H09	Manhole type 2-A with concrete cover	Nos	24					
2H10	Manhole type 2-B with grating cover	Nos	12					
2H11	Manhole type 2-C with grating cover and concrete cover	Nos	4					
2H12	Trench type 1 without cover	M	1,110					
2H13	Trench type 1 with concrete cover	M	2,902					
2H14	Trench type 1 with grating cover	М	308					
2H15	Trench type 2 without cover	M	355					
2H16	Trench type 2 with concrete cover	М	645					
2H17	Trench type 2 with grating cover	M	650					
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	1		<u>.</u>			Total of	Sub-Section 2H	

Signature of Bidder

BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)	۲. CL	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
		1 .	· · ·					
1	NAVIGATION AIDS	Set	1					
101	Lighthouse	Set	3					
102	Light beacon		2	1.1.1.				
103	Channel entrance marker buoy(high wave type)	Set	2					
104	Channel marker buoy(high wave type)	Set	1 '					
105	Channel marker buoy	Set	5		-			
106	Basin marker buoy	Set	• 2					
107	AIS base unit and VTS display	Set	1					
108	Spare parts for 5 years operation for above instrument	Set	1			· .		
109	VHF radio	Set	2					
110	Anemometer	Set	1			•		
111	Barometer	Set	. 1					
I12	Clock	Set	1			;		
113	Binocular	Set	1	•				
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						Total	of Sub-Section 21	

Signature of Bidder

BUILDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	U)	Currency (S\$)	0	Currency JS\$)	Total
No.		`		Unit Cost	Amount	Unit Cost	Amount	(US\$)
	SUPPLY AND INSTALLATION OF SECURITY FENCE Supply and installation of security fence	m	1,362					
		•						
			; ;			Total	of Sub-Section 2J	

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BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description		Unit	Quantity		Currency S\$) Amount		Currency JS\$) Amount	Total (US\$)
No.				1		Amount	OntCost	Alloun	
	PORT ADMINISTRATION BUILDING EARTHWORKS		LS	1 1				· .	
	PILE WORKS		LS	1					
	1		LS	1				:	
A03	CONCRETE AND FORMWORKS		LS	1 1					
A04	STRUCTURAL STEEL WORKS		LS	1					
A05	MASONRY WORKS		LS	1					· · ·
A06	WATERPROOFING WORKS		LS	1					
A07	TILE WORKS		LS	1					
A08	PLASTERING WORKS		1				}		
A09	DOOR AND WINDOW WORKS		LS			1			
A10	PAINTING WORKS		LS				1		
3A11 _	CARPENTRY AND JOINERY WORKS		LS	1	•	All			
3A12	INTERIOR FINISHING WORKS		LS		·				
3A13	MISCELLANEOUS METAL WORKS		LS	I				5	
SA14	MISCELLANEOUS WORKS		LS	1					· ·
3A15	OUTDOOR WORKS	· .	LS	1					
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description		Unit	Quantity	Foreign ((U:	Currency S\$)	. (t	Currency JS\$)	Total
No.		•	4		Unit Cost	Amount	Unit Cost	Amount	(US\$)
3A01	EARTHWORKS								•
3A0101	EXCAVATION FOR PILE CAP		m ³	344.77					
3A0102	BACKFILLING FOR PILE CAP AND SLAB	· .	m ³	550.39					
3A0103	RUBBLE STONE BEDDING 100 mm thk		m ³	145.92					
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS II.A(2)-19

Pay Item	Description	Unit	Quantity		Currency S\$) Amount		Currency JS\$) Amount	Total (US\$)
No.	PILE WORKS							
3A0201	PRECAST PRESTRESSED CONCRETE PILES ; 45 cm x 45 cm, LENGTH 5m, 43 NOS.	m	215	· · ·				
3A0202	PRECAST PRESTRESSED CONCRETE PILES ; 50 cm x 50 cm, LENGTH 5 m, 30 NOS.	m	150					
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						Total of S	Sub-Section 3A0	2
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

II.A(2)-20

Pay Item	Description	- · ·	Unit	Quantity		Currency S\$)		Currency (S\$)	Total
No.		· · · ·			Unit Cost	Amount	Unit Cost	Amount	(US\$)
3A03	CONCRETE AND FORMWORKS								
3A0301	LEAN CONCRETE, FOR FOUNDATION Fc=180 kg/c		m ³	25.52					
3A0302	CONCRETE BELOW 1st FLOOR Fc= 210 kg/cm ²		m³	394.39		 			
3A0303	FORMWORK BELOW 1 st FLOOR		m ²	960.22					
	CONCRETE ABOVE 1 st FLOOR Fc= 280 kg/cm ² REINFORCEMENT		m ³ ton	896.90 267.90					
÷	FORMWORK ABOVE 1 st FLOOR	н н. Та	m ²	6387.10				· · ·	
3A0307	PRECAST CONCRETE SLAB		m²	1247.00					
1 Tra									r man de la constante de la co
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Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description	Unit	Quantity	Foreign (U	Currency S\$)	J)	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
	AND THE AND THE WORKS			· ·				
3 A04 3A0401	STRUCTURAL STEEL WORKS Structural Steel Work	ton	10.00					
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·						Total of	Sub-Section 3A04	<u> </u>
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit Q	Quantity	Foreign Currency (US\$)			Currency S\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
1	MASONRY WORKS	2	072.94					
	CONCRETE BLOCK 200 mm thk, INCLUDING LINTEL	m ²	973.84					-
3A0502	CONCRETE BLOCK 150 mm thk, INCLUDING LINTEL	m²	1812.13		1. 1.			
3A0503	CONCRETE BLOCK 100 mm thk, INCLUDING LINTEL	m ²	101.12					
3A0504	BRICK MASONRY	m ²	182.02		and and a second se			
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)		Currency JS\$)	Total
No.		}		Unit Cost	Amount	Unit Cost	Amount	(US\$)
3A06 3A0601	WATERPROOFING WORKS WATERPROOF MEMBRANE 2 LAYER INCLUDING LEVELING MORTAR	m ²	133.33					
3A0602	WATERPROOF MEMBRANE 3 LAYER INCLUDING LEVELING MORTAR	m²	1376.5					
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			- -	1 				
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		·	· · · · · · · · ·			Total of S	ub-Section 3A06	
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Signature of Bidder

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

LA UNION PORT DEVELOPMENT PROJECT (ES.P5)

BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	-	Currency S\$)		Currency JS\$)	Total
No				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3A07	TILE WORKS							
3A0701	FLOOR CERAMIC TILE 330*330*8 mm, INCLUDING LEVELING						l	
	MORTAR	m ²	1788.26					
3A0702	FLOOR CERAMIC TILE 200*200*8 mm, INCLUDING LEVELING							
	MORTAR	m ²	142.12					
3A0703	STEP NOSING TILE(INTERIOR), INCLUDING LEVELING				· ·			
	MORTAR	m	146.16	· · · ·			1	
3A0704	FLOOR CERAMIC TILE 330*165*8 mm, INCLUDING LEVELING							
	MORTAR	m^2	84.96					
3A0705	STEP NOSING TILE(EXTERIOR), INCLUDING LEVELING							
	MORTAR	m	31.08					
3A0706	INTERNAL WALL CERAMIC TILE 200*300*8 mm, INCLUDING							
	RENDERING MORTAR	m ²	506.34					
3A0707	INTERIOR CERAMIC TILE SKIRTING h;100 mm ,INCLUDING							
	RENDERING MORTAR	m	858.06					
3A0708	EXTERNAL WALL CERAMIC TILE 200*300*8 mm, INCLUDING							
	RENDERING MORTAR	m ²	45.19		· ·	-		
3A0709	EXTERIOR CERAMIC TILE SKIRTING h; 800 mm, INCLUDING							
	RENDERING MORTAR	m	127.18					
3A0710	GRANITE STONE FLOOR TILE	m ²	450.88					
3A0711	GRANITE STONE TILE SKIRTING	m	126.48					
3A0712	GRANITE STONE TILE SHELF TOP	m² .	10.24					
			.1					ļ

Total of Sub-Section 3A07

Signature of Bidder

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Pay Item No.	Description	Unit	Quantity		Currency S\$) Amount		Currency JS\$) Amount	Total (US\$)
3A08	PLASTERING WORKS			-				
3A0801	CEMENT MORTAR PLASTER TO WALL	m ²	5440.08					
3A0802	CEMENT MORTAR SKIRTING ;h 100 mm	m	42.21	· .				
3A0803	CEMENT MORTAR FLOOR	m ²	150.18		1. S.			
3A0804	CONTROL JOINT AT EXTERNAL WALL; 20 mm, W/CALKING	m	1049.85					
3A0805	WATERPROOF CEMENT MORTAR	m ²	316.66			· · ·		
3A0806	WATERPROOF CEMENT MORTAR W/WIRE MESH	m ²	161.14					
3A0807	COLOR CEMENT SPRAY	m ²	236.53		·	1. j. t.		
3A0808	COLORED WATERPROOF CEMENT MORTAR	m ²	1111.32					
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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BIDDING DOCUMENTS

PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)	1	Currency JS\$)	Total
No.		· · · · · ·		Unit Cost	Amount	Unit Cost	Amount	(US\$)
			÷.,					
3A09	DOOR AND WINDOW WORKS			÷.,				
3A0901	D1 ; ALUMINIUM COMBINATION DOOR, w 5100 * h 3500 mm	nos.	4	1		-		
3A0902	D2 ; ALUMINIUM COMBINATION DOOR, w 1700 * h 2600 mm	nos.	1					
3A0903	D3 ; STEEL GLAZED FLASH DOOR, w 1700 * h 2500 mm	nos.	34					
3A0904	D4 ; STEEL FLASH DOOR, w 900 * h 2500 mm	nos.	13		-			
3A0905	D5 ; STEEL FLASH DOOR, w 1700 * h 2500 mm	nos.	- 4		N			
3A0906	D6 ; STEEL FLASH DOOR, w 900 * h 2500 mm	nos.	6					
3A0907	D7 ; STEEL FLASH DOOR, w 800 * h 2100 mm	nos.	9				· · ·	}
3A0908	D8 ; WOOD GLAZED FLASH DOOR , w 900 * h 2500 mm	nos.	29					
3A0909	D9 ; STEEL GLAZED FLASH DOOR, w1350*b2500mm	nos.	3					
3A0910	D10 ; STEEL FLASH DOOR , w 500 * h 700 mm	nos.	4					
3A0911	D11 ; WOOD FLASH DOOR, w 1200 * h 2500 mm	nos.	3					
3A0912	W1; ALUM SLIDING WINDOW, w 4790 * h 1700 mm	nos.	1					
3A0913 -	W2 ; ALUM SLIDING WINDOW, w 3170 * h 1700 mm	nos.	. 1					
3A0914	W3 ; ALUM SLIDING WINDOW, w 5310 * h 2600 mm	nos.	18			1		
3A0915 _	W4; ALUM SLIDING WINDOW, w 1200 * h 700 mm	nos.	32					
3A0916	W5 ; ALUM COMBINED WINDOW, w 9420 * h 2600 mm	nos.	6					
3A0917	W6 ; ALUM SLIDING WINDOW, w 2470 * h 1200 mm	nos.	1					
3A0918	W7 ; ALUM SLIDING WINDOW, w 1550 * h 1200 mm	nos.	7					
3A0919	W8 ; ALUM COMBINED WINDOW, w 13000 * h 2800 mm	nos.	1					
3A0920	W9 ; ALUM CASEMENT WINDOW, w 600* h 1200 mm	nos.	14					
3A0921	W10 ; ALUM SLIDING WINDOW, w 1200 * h 1200 mm	nos.	4					
3A0922	W11 ; ALUM SLIDING WINDOW, w 2470 * h 900 mm	nos.	3					
3A0923	W12 ; ALUM SLIDING WINDOW, w 1550 * h 900 mm	nos.	1					
3A0924	W13; ALUM SLIDING WINDOW, w 1550 * h 1600 mm	nos.	3					

Total of Sub-Section 3A09

Signature of Bidder

BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Local Currency Total Pay Foreign Currency Unit (US\$) (US\$) Item Description Quantity Unit Cost Unit Cost (US\$) No. Amount Amount 3A10 PAINTING WORKS m^2 3A1001 ACRYLIC EMULSION PAINT (INTERIOR) . 2707.12 m^2 3A1002 2758.52 ACRYLIC EMULSION PAINT (EXTERIOR) m^2 3A1003 OIL PAINT 711.79 m^2 12.7 3A1004 VARNISH PAINT ON WODDON HANDRAIL m^2 3A1005 MARINE PAINT 56.01 **Total of Sub-Section 3A10**

Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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BIDDING DOCUMENTS

PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item No.	Description	 Unit	Quantity	Currency S\$) Amount		Currency US\$) Amount	Total (US\$)
3A11 3A1101 3A1102 3A1103 3A1104	CARPENTRY AND JOINERY WORKS WOODEN SKIRTING, h:100 mm BLIND BOX W; 120*D; 100 mm WOODEN DOOR FRAME WOODEN HANDRAIL	m m m m	57.65 157.19 240.87 45.36	Amount			
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					Total of t	Sub-Section 3A11	
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CIVIL AND BUILDING WORKS

BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

No.			Quantity		S\$)		JS\$)	1
1		<u> </u>		Unit Cost	Amount	Unit Cost	Amount	(US\$)
3A1201 M 3A1202 C 3A1203 A	INTERIOR FINISHING WORKS MINERAL FIBER ACCOUSTIC TILE W/SUSPENDED CEILING CEMENT FIBER BOARD W/SUSPENDED CEILING ALUMINUM SPANDREL CEILING GYPSUM BOARD WALL W/LIGHT GAUGE STEEL FRAME	m ² m ² m ² m ²	1794.59 392.88 243.43 24.34					
							Sub-Section 3A12	

Signature of Bidder

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COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA) LA UNION PORT DEVELOPMENT PROJECT (ES.P5)

PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	-	Currency S\$)		Currency S\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
		1. j					· . ·	
3A13	MISCELLANEOUS METAL WORKS							
3A1301	ROOF DRAIN, CAST IRON MADE 100 mm DIA	nos.	15					
3A1302	ROOF DRAIN, CAST IRON MADE 100 mm DIA, w/WIRE MESH							
	COVER	nos.	4	÷ .	1. The second			
3A1303	ROOF GUTTER FOR CANOPY; GALVA.ST.SHEET 1.2 mm thk,		1					
	W:1400, w/ASPHALT COATING, INCLUDING EAVES FASCIA		1				· .	
	COVER PLATE	m	17.50	-				
3A1304	FORMED STEEL ROOF SHEET INCLUDING FLASHING PLATE	m ²	18.00					
3A1305	STEEL HANDRAIL; h 600 mm	m	293.37					
3A1306	STEEL HANDRAIL; h 700 mm	m	21.00	·				
3A1307	STEEL HANDRAIL; h 1100 mm TO EMERGENCY STAIR,					ļ		
	VALCONY	m	76.86					
3A1308	PARAPET RINGS	nos.	17	:				
3A1309	STEEL LADDERS w/CAGE; 2nos	m	5.20					
3A1310	STEEL LADDERS TO ROOF	m	2.60	· · ·				
3A1311	HATCH COVER	nos.	. 1					
3A1312	DOOR MAT	nos.	1					
3A1313	STEEL PIPE PROTECTION AT DOWNSPOUT BOTTOM	m	21.00					
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	(ປ	Currency S\$)	ז)	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3A14 3A1401 3A1402	MISCELLANEOUS WORKS DOWNSPOUT ABOVE GL INCLUDING ELBOW ROOM NAME PLATE	m nos.	189.00 60					
3A1403	ROOF INSULATION OF FORM POLYSTYRENE BOARD	m²	980.00				-	
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VOLUME II-A: BILLS OF QUANTITIES . CIVIL AND BUILDING WORKS

BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	_	Currency S\$)		Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
2.15					· .		н. 	
3A15 3A1501	OUTDOOR WORKS CATCH BASIN 400*400	nos.	10				1	
3A1501 3A1502	CATCH BASIN 400 400	} .	10				-	
3A1502	DRAINAGE PIPING PVC 150 mm DIA, w/SAND FILLING	nos.	<u>د</u>				-	
5111505	PROTECTION	m	91.35				l	
		m ²				2		
3A1504 3A1505	INTERLOCKING BLOCK w/SAND BFDDING	m	849.99					
SAISUS	CONCRETE FOUNDATION OF AIR CONDITIONING EQUIPMENT; 2 Nos	LS	. 1	÷				
3A1506	CONCRETE BORDER BLOCK ; 100 * 100 * 600 mm TO AIR CON	LS		· · · ·				
341300	AREA	m	33.6					
3A1507	NET FENCE h = 2500 mm, INCLUDING GATE AND							
5111507	FOUNDATION	m	38.85					
3A1508	GRAVEL BEDDING	m ³						
3A1508	LAON TO PLANTING AREA INCLUDING CONCRETE BORDER	111	2.02					1
JAIJO	BLOCK; 100 * 300 * 600 mm, SAND FILLING AND PLANTING							
1. A. A.	TREE	LS	1					
3A1510	PARKING SHED INCLUDING DRAIN DITCH W/GRATING COVE		1					
3A1511	GUARD BOX 2 NOS	LS	1					
3A1512	PLANT BOX	m	76.60	2			[
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Total of Sub-Section 3A15

Signature of Bidder

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description	Unit	Quantity		Currency S\$)	(1	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3B	CONTAINER FREIGHT STATION							
1	EARTHWORKS	LS	1					
4	PILE WORKS	LS	1				1	ļ
1	CONCRETE AND FORMWORKS	LS	1					}
	STRUCTURAL STEEL WORKS	LS	. 1	. *				
1	MASONRY WORKS	LS	1			:		1. The second
· · ·	WATER PROOFING WORKS (NOT APPLICABLE)				· · ·			1
	TILE WORKS	LS	1		1. The second		·	
3B08	PLASTERING WORKS	LS	1					
3B09	DOOR AND WINDOW WORKS	LS	1					
3B10	PAINTING WORKS	LS	1]	
3B11	CARPENTRY AND JOINERY WORKS	LS	1					
	INTERIOR FINISHING WORKS	LS	. 1					
	MISCELLANEOUS METAL WORKS	LS	1	•		-		
	MISCELLANEOUS WORKS	LS	1					
3B15	OUTDOOR WORKS	LS	1					
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Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

II.A(2) - 34

Foreign Currency Local Currency Total Pay (US\$) (US\$) Description Quantity Item Unit Unit Cost (US\$) Unit Cost Amount No. Amount 3B01 EARTHWORKS m^3 3B0101 969 EXCAVATION FOR FOUNDATION m^3 3138 3B0102 BACK FILLING FOR PILE CAP & SLAB m^3 418.35 3B0103 RUBBLE STONE BEDDING 100 mm thk

Total of Sub-Section 3B01

Signature of Bidder____

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)		Currency JS\$)	Total
No.	• •	 		Unit Cost	Amount	Unit Cost	Amount	(US\$)
3B0201	PILE WORKS PRECAST PRESTRESSED CONCRETE PILES; 40 cr LENGTH 7 m, 56 NOS. PRECAST PRESTRESSED CONCRETE PILES; 45 cr LENGTH 7 m, 6 NOS.	m m	392.00 42.00					
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						Total of S	Sub-Section 3B02	2

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

COMISION EJECUTIVA PORTUARIA AUTONOMA (CEPA)

LA UNION PORT DEVELOPMENT PROJECT (ES.P5)

Pay Item	Description	Unit	Quantity	Foreign Currency (US\$)		Local Currency (US\$)		Total
No,				Unit Cost	Amount	Unit Cost	Amount	(US\$)
B03	CONCRETE AND FORMWORKS						 	
	LEAN CONCRETE, FOR FOUNDATION FC = 180 kg/cm^2	m ³	45.82					
	CONCRETE BELOW 1 st . Floor FC = 210 kg/cm ²	m ³	1,063.90					
	CONCRETE ABOVE 1 ^{st.} Floor FC = 280 kg/cm ²	m³	36.06					
	REINFORCEMENT STEEL BAR	ton 2	156.55					
	FORMWORK	m ²	2,700.66					
3B0306	PRECAST CONCRETE SLAB	m²	289.14					
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Signature of Bidder_

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		\$)	Local (Unit Cost	Currency JS\$) Amount	Total (US\$)
No.				Unit Cost	Amount	Unit Cost	Alloum	
304 30401	STRUCTURAL STEEL WORKS Structural Steel Work	ton	204.30					
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Pay Item	Description	Unit	Quantity	U (U	Currency S\$)	· (t	Currency JS\$) Amount	Total (US\$)
No.		· 		Unit Cost	Amount	Unit Cost	Amount	(053)
B0501 B0502	MASONRY WORKS CONCRETE BLOCK 200 mm thk, INCLUDING LINTEL CONCRETE BLOCK 150 mm thk, INCLUDING LINTEL CONCRETE BLOCK 100 mm thk, INCLUDING LINTEL	m ² m ² m ²	407.8 189.56 28.67					
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					Signat	ure of Bidder		

BIDDING DOCUMENTS

PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity	-	Currency (S\$)	Local Currency (US\$)		Total	
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)	
3B07	TILE WORKS FLOOR CERAMIC TILE 330 * 330 * 8 mm, INCLUDING	1							
B0701		m ²	330.33						
	LEVELING MORTAR FLOOR CERAMIC TILE 200 * 200 * 8 mm ,INCLUDING				-				
B0702	LEVELING MORTAR	m ²	24.04						
3B0703	STEP NOSING TILE (INTERIOR), INCLUDING LEVELING			· · · ·					
·	MORTAR	m	32.00					Î	
3B0704	STEP NOSING TILE (EXTERIOR), INCLUDING LEVELING	· .			1 · ·				
	MORTAR	m	51.24						
B0705	INTERNAL WALL CERAMIC TILE 200 * 300 * 8 mm	2							
	,INCLUDING RENDERING MORTAR	m ²	105.27						
3B0706	INTERIOR CERAMIC TILE SKIRTING h;100 mm, INCLUDING		20.00						
	RENDERING MORTAR	m	30.60 1.79						
3B0707	GRANITE STONE TILE SHELF TOP w; 150 mm	' <u>m</u>	1./3						
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Signature of Bidder

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description	Unit	Quantity	Currency S\$) Amount	Local Cu (US Unit Cost	Total (US\$)
3B0801 3B0802 3B0803	PLASTERING WORKS CEMENT MORTAR PLASTER TO WALL CEMENT MORTAR SKIRTING ; h 100 mm CONTROL JOINT AT EXTERNAL WALL; 20 mm, W/CALKING HARDENER FINISH ON CONCRETE FLOOR	m ² m m m ²	704.60 207.42 132.30 73.18	Anoun		

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Pay Item	Description	Unit	Quantity	Foreign Currency (US\$)		Local Currency (US\$)		Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
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3 B 09	DOOR AND WINDOW WORKS		<u>م</u>	· ·		1. A.	· ·	
3B0901	D1 ; STEEL GLAZED FLASH DOOR, w 900 * h 2100 mm	nos.	2					
3B0902	D2 ; WOOD GLAZED FLASH DOOR, w 800 * h 2100 mm	nos.	3					
3B0903	D3 ; STEEL FLASH DOOR, w 900 * h 2100 mm	nos.	2					
3B0904	D4 ; WOOD FLASH DOOR, w 550 * h 2100 mm	nos.	3					
3B0905	D5 ; WOOD FLASH DOOR, w 800 * h 800 mm	nos.	. 1					
3B0906	D6 ; STEEL ROLL-UP SHUTTER, w 5000 * h 5000 mm	nos.	16			1 .		
3B0907	D7; STEEL SLIDING DOOR, w 2500 * h 2500 mm	nos.	2					
3B0908	W1; ALUM SLIDING WINDOW, w 1200 * h 700 mm	nos.	3					
3B0909	W2; ALUM SLIDING WINDOW, w 1200 * h 900 mm	nos.	4					
3B0910	W3 ; ALUM FRAMED LOUVER WINDOW, w 3310 * h 1200 mm	nos.	. 4					
3B0911	W4 ; ALUM FRAMED LOUVER WINDOW w/MESH, w 7250 * h	1						
	840 mm	nos.	16			· ·		
3B0912	W5 ; ALUM FRAMED LOUVER WINDOW, w 4600 * h 840 mm	nos.	4					
3B0913	W6; ALUM FRAMED LOUVER WINDOW, w 1670 * h 1200 mm	nos.	. 4					
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS II.A(2) - 42

Pay Item	Description	Unit	it Quantity	Foreign Currency (US\$)		Local C (US	Total	
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
1 1 1							· · · ·	
3B10	PAINTING WORKS						-	
	ACRYLIC EMULSION PAINT (INTERIOR)	m ²	772.45				· ·	
	ACRYLIC EMULSION PAINT (EXTERIOR)	m ²	407.80					
3B1003	OIL PAINT	m²	955.11					
3B1004	MARINE PAINT ON STRUCTURE STEEL	m²	3707.73					
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Pay Item No.	Description		Unit	Quantity	Foreign (U Unit Cost	Currency S\$) Amount		Currency JS\$) Amount	Total (US\$)
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B11 B1101	CARPENTRY AND JOINERY WORKS WOODEN DOOR FRAME	·	-	37.49					
01101			m	57.49	•				
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Pay Item	Description	Unit	Quantity	о стана (U	Currency S\$)	(Ľ	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
	INTERIOR FINISHING WORKS CEMENT FIBER BOARD W/SUSPENDED CEILING	m ²	378.32					
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	<u>}</u>		<u>·</u>			Total of	Sub-Section 3B12	
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Pay Item	Description	Unit	Quantity		Currency S\$)	1 .	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3B13	MISCELLANEOUS METAL WORKS				i.			
3B1301	COLORED FORMED STEEL SHEET ROOFING 0.5mm thk			н.,			·	
	INCLUDING METAL FLASHING	m²	3768.85					
3B1302	COLORED FORMED STEEL SHEET CLADDING WALL 0.5 mm							
•	thk	m ²	644.27					
3B1303	STEEL HANDRAIL INTERIOR h 1200 mm	m	41.48					
3B1304	STEEL HANDRAIL AT PLATFORM STAIR h 1100 mm	m	12.60			$\{x_i\}_{i\in I} \in \{x_i\}$		
3B1305	EAVES GUTTER ;GALVANIZED STEEL SHEET 0.6 mm thk	m	168.42					
3B1306 -	ROOF DRAIN	nos.	10				ł	
3B1307	COLUMN PROTECTION STEEL PIPE	m	49.14		-			
3B1308	STEEL GUARD PIPE OF DOWNSPOUT BOTTOM h 2.0 m	m	21.00					
3B1309	METAL WIRE MESH FOR BIRD PROOF	m ²	111.13					
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description	Unit	Quantity	Foreign (U	Currency S\$)	Local (U	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3B14 3B1401	MISCELLANEOUS WORKS DOWNSPOUT INCLUDING ELBOW UNDERGROUND	m.	128.20					
	1					Total of S	Sub-Section 3B14	
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Pay Item	Description	Unit	Quantity	Foreign ((US	\$\$)	(1	Currency JS\$)	Total
No. 3 B15	OUTDOOR WORKS			Unit Cost	Amount	Unit Cost	Amount	(US\$)
B1501 B1502 B1503	CONCRETE DRAIN DITCH w/CONC. COVER w 400 mm CONCRETE DRAIN PIPE 200 mm DIA CONCRETE CATCH BASIN 800 * 800 mm IN SIZE	m m nos.	126.00 15.75 2					
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3C01EARTHWORKSLS13C02PILE WORKSLS13C03CONCRETE AND FORMWORKSLS13C04STRUCTURAL STEEL WORKSLS13C05MASONRY WORKSLS13C06WATER PROOFING WORKS (NOT APPLICABLE)13C07TILE WORKSLS13C08PLASTERING WORKSLS13C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1	st Amount	(US\$)
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3C02PILE WORKSLS13C03CONCRETE AND FORMWORKSLS13C04STRUCTURAL STEEL WORKSLS13C05MASONRY WORKSLS13C06WATER PROOFING WORKS (NOT APPLICABLE)13C07TILE WORKSLS13C08PLASTERING WORKSLS13C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1		
3C03CONCRETE AND FORMWORKSLS13C04STRUCTURAL STEEL WORKSLS13C05MASONRY WORKSLS13C06WATER PROOFING WORKS (NOT APPLICABLE)13C07TILE WORKSLS13C08PLASTERING WORKSLS13C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1		
3C04STRUCTURAL STEEL WORKSLS13C05MASONRY WORKSLS13C06WATER PROOFING WORKS (NOT APPLICABLE)13C07TILE WORKSLS13C08PLASTERING WORKSLS13C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1		
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3C07TILE WORKSLS13C08PLASTERING WORKSLS13C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1		
3C08PLASTERING WORKSLS13C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1		
3C09DOOR AND WINDOW WORKSLS13C10PAINTING WORKSLS13C11CARPENTRY AND JOINERY WORKSLS13C12INTERIOR FINISHING WORKSLS13C13MISCELLANEOUS METAL WORKSLS13C14MISCELLANEOUS WORKSLS1		
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)	J)	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3C01 3C0101 3C0102 3C0103	EARTHWORKS EXCAVATION FOR FOUNDATION BACK FILLING RUBBLE STONE BEDDING 100mm THK	m ³ m ³ m ³	1740.00 1463.00 164.44	19 J.				
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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item		Description	Unit	Quantity		Currency S\$)		Currency (S\$)	Total
No.					Unit Cost	Amount	Unit Cost	Amount	(US\$)
3C02 3C0201	PILE WORKS PRECAST PRESTRESSEI	O CONCRETE PILES ; 40x40cm, LENGTH	í.						
	4m, 79NOS.	and the second states of the second states and	m	316.00					
3C0202		CONCRETE PILES ; 45x45cm, LENGTH	ſ						
	4m, 44NOS.		m	176.00					
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VOLUME 11-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)	(T	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3C03	CONCRETE AND FORMWORKS							
		m^3						
3C0301	LEAN CONCRETE, FOR FOUNDATION Fc= 180 kg/cm ²	•	27.82					
	CONCRETE BELOW 1FL Fc= 210 kg/cm ²	m ³	497.56	е. С. с.				tut.
	CONCRETE ABOVE 1FL Fc= 280 kg/cm ²	m	53.93 76.96					
	REINFORCEMENT STEEL BAR	ton m ²	1471 46		. * `			
	FORMWORK	m^{2}	1471.46					
3C0306	PRECAST CONCRETE SLAB	m	146.25		;			· .
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Pay Item	Description	Unit	Quantity	Foreign Currency (US\$)	U)	Currency S\$)	Total
No.				Unit Cost Amou	int Unit Cost	Amount	(US\$)
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	STRUCTURAL STEEL WORKS Structural Steel Work	ton	146.71			· ·	
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l					Total of S	ub-Section 3C04	

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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Pay Item	Description	Unit	Quantity		Currency S\$)	τ)	Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
3C05 3C0501 3C0502	MASONRY WORKS CONCRETE BLOCK 200mm thk ,INCLUDING LINTEL CONCRETE BLOCK 100mm thk ,INCLUDING LINTEL	m ² m ²	345.66 54.46					
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						Total of :	 Sub-Section 3C0	5

VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

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Local Currency Foreign Currency Total Pay (US\$) (US\$) Quantity Description Item Unit Unit Cost (US\$) Unit Cost Amount Amount No. 3C07 TILE WORKS 3C0701 FLOOR CERAMIC TILE 330*330*8mm ,INCLUDING LEVELING m^2 MORTAR 94.50 FLOOR CERAMIC TILE 200*200*8mm ,INCLUDING LEVELING 3C0702 m^2 MORTAR 57.96 3C0703 STEP NOSING TILE(INTERIOR), INCLUDING LEVELING MORTAR 14.70 m INTERNAL WALL CERAMIC TILE 200*300*8mm, INCLUDING 3C0704 m^2 RENDERING MORTAR 202.53 GRANITE STONE TILE SHELF TOP w; 150mm 1.06 3C0705 m Total of Sub-Section 3C07

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VOLUME II-A: BILLS OF QUANTITIES CIVIL AND BUILDING WORKS

II.A(2) - 55

Pay Item	Description	Unit	Quantity	(U	Currency S\$)	<u>(</u>	Currency JS\$)	Total
No.		<u>[</u>		Unit Cost	Amount	Unit Cost	Amount	(US\$)
				·				
	PLASTERING WORKS							
	CEMENT MORTAR PLASTER TO WALL	m ²	507.02					
20802	CEMENT MORTAR SKIRTING ; h 100mm	m	258.30					
20803	CEMENT MORTAR FLOOR	m ²	43.47		1 · · ·			· ·
20804	CONTROL JOINT AT EXTERNAL WALL ;20mm ,W/CALKING	m	114.45					
0805	HARDENER FINISH ON CONCRETE FLOOR	m ²	1298.72					
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BIDDING DOCUMENTS PACKAGE A: CIVII. AND BUILDING WORKS

Pay Item	Description	Unit	Quantity		Currency S\$)		Currency JS\$)	Total
No.				Unit Cost	Amount	Unit Cost	Amount	(US\$)
		<u> </u>						
C09	DOOR AND WINDOW WORKS							
C0901	D1 ; STEEL GLAZED FLASH DOOR , w900*h2100mm	nos.	4					
C0902	D2 ; WOOD GLAZED FLASH DOOR , w800*h2100mm	nos.	4					
C0903	D3 ; STEEL FLASH DOOR , w900*h2100mm	nos.	3					
C0904	D4 ; WOOD FLASH DOOR , w550*h2100mm	nos.	5	· · · · ·				
C0905	D5; STEEL ROLL-UP SHUTTER, w4500*h4500mm	nos.	5					
C0906	D6; STEEL ROLL-UP SHUTTER, w6500*h4650mm	nos.	1					
C0907	D7; STEEL SLIDING DOOR, w2500*h2500mm	nos.	2					
C0908	W1; ALUM SLIDING WINDOW, w1200*h900mm	nos.	2					
C0909	W2; ALUM SLIDING WINDOW, w1200*h700mm	nos.	3					•
C0910	W3; ALUM FRAMED LOUVER WINDOW, w1670*h1500mm	nos.	23					
C0911	W4 ; ALUM FRAMED LOUVER WINDOW , w5600*h1400mm	nos.	14					
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Pay Item No.	Description		Unit	Quantity	Foreign (U Unit Cost	Currency (S\$) Amount		Currency JS\$) Amount	Total (US\$)
C10 C1001 C1002 C1003	PAINTING WORKS ACRYLIC EMULSION PAINT (INTERIOR) ACRYLIC EMULSION PAINT (EXTERIOR) OIL PAINT MARINE PAINT ON STRUCTURE STEEL		$egin{array}{c} m^2 \ m^2 \ m^2 \ m^2 \ m^2 \end{array}$	1037.77 207.96 891.22 2619.84					
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BIDDING DOCUMENTS PACKAGE A: CIVIL AND BUILDING WORKS

Pay Item No.	Description	Unit	Quantity	Foreign (U Unit Cost	Currency S\$) Amount		Currency JS\$) Arnount	Total (US\$)
3C11 3C1101	CARPENTRY AND JOINERY WORKS WOODEN SKIRTING ,h :100 mm	m	105.40					(0,00)
3C1102	WOODEN DOOR FRAME	m	41.37	•		•		
				·				
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		••••••••••••••••••••••••••••••••••••••	· · · ·			Total of S	ub-Section 3C11	
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CIVIL AND BUILDING WORKS

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BIDDING DOCUMENTS

PACKAGE A: CIVIL AND BUILDING WORKS

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3C12	INTERIOR FINISHING WORKS			Unit Cost	Amount			(033)
3C1201	CEMENT FIBER BOARD W/SUSPENDED CEILING	m ²	73.08			· · · · ·		
3C1201	GYPSUM BOARD WALL W/SUSPENDED CEILING	m ²	66.15	1				
3C1202	CEMENT FIBER BOARD WALL W/LIGHT GAUGE STEEL							
	FRAME	m ²	167.09					
3C1204	GYPSUM BOARD WALL W/LIGHT GAUGE STEEL FRAME	m ²	505.46		· · ·			
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