

**REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE**

**DETAILED DESIGN STUDY ON
THE BAGO RIVER BRIDGE
CONSTRUCTION PROJECT**

FINAL REPORT ATTACHMENTS

**VOLUME III QUANTITY
CALCULATION REPORT
Part VI Toll Collection Facility**

DECEMBER 2017

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

NIPPON KOEI CO., LTD.

ORIENTAL CONSULTANTS GLOBAL CO., LTD.

METROPOLITAN EXPRESSWAY COMPANY LIMITED.

CHODAI CO., LTD.

NIPPON ENGINEERING CONSULTANTS CO., LTD.

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TOLL COLLECTION FACILITY

TOLL ISLAND (1.8m)

Level 3 (Category)	Level 4 (Item)	Level 5(Standard)	Unit	Quantity by item type	Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Steel framework			Unit											
	Deformed steel bar		t	Total	0.6	0.6	0.0	0.0	0.0					
				SD10	0.6	0.6					Pitch 200mm ダブル配筋	73,800		44,280
	Fabricating & assembling		t	Total	2	2	0.0	0.0	0.0					
				Fabricating & assembling	2	2							273	546
Concrete work			Unit											
	Plain concrete		m3	Total	11	11	0.0	0.0	0.0					
				Fc24	11	11					1.8m x 25m x 0.25m	11,000		121,000
	Concrete placement		m3	Total	11	11	0.0	0.0	0.0					
				Boom type	11	11							296	3,256
Foam work			Unit											
	Foam	Plywood Exposed finish	m ²	Total	14	14	0.0	0.0	0.0					
				Bare concrete	14	14					1.8m x 25m x 0.3m	6,970		97,580
	Foam		m ²	Total	2	2	0.0	0.0	0.0					
				Curved surface	2	2					1.8m x 1.0m	11,948		23,896
	Transport		m ²	Total	16	16	0.0	0.0	0.0					
				Transport	16	16							18	288
Waterproofing work			Unit											
	Sealing	Two-component type	m	Total	10	10	0	0	0					
				15mm~20mm wide	10	10					(1.2m+ 3.9m) x 2	1,450		14,500
Metal work			Unit											
	High-luminance reflecting sheet		m	Total	4	4	0	0	0					
				Steel foundation	4	4					1.8m x 2 steps	11,100		44,400
	Guard fence		Point	Total	1	1	0	0	0					
				W1000×H2600	1	1						547,000		547,000
Plaster work			Unit											
	Concrete leveling		m ²	Total	45	45	0	0	0					
				Thin finish	45	45					1.8m x 25m		55	2,475
Lane Marking			Unit											
			m	Total	567	567	0	0	0					
				15cm wide	440	440							155	68,200
				45cm wide	127	127							511	64,897
Total Unit Cost														1,032,318

TOLL COLLECTION FACILITY

TOLL ISLAND (2.2m)

Level 3 (Category)	Level 4 (Item)	Level 5(Standard)	Unit	Quantity by item type	Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Steel framework			Unit											
	Deformed steel bar		t	Total	0.6	0.6	0.0	0.0	0.0					
				SD10	0.6	0.6					Pitch 200mm ダブル配筋	73,800		44,280
	Fabricating & assembling		t	Total	2	2	0.0	0.0	0.0					
				Fabricating & assembling	2	2							273	546
Concrete work			Unit											
	Plain concrete		m3	Total	14	14	0.0	0.0	0.0					
				Fc24	14	14					1.8m x 25m x 0.25m	11,000		154,000
	Concrete placement		m3	Total	14	14	0.0	0.0	0.0					
				Boom type	14	14							296	4,144
Foam work			Unit											
	Foam	Plywood Exposed finish	m ²	Total	17	17	0.0	0.0	0.0					
				Bare concrete	17	17					1.8m x 25m x 0.3m	6,970		118,490
	Foam		m ²	Total	2	2	0.0	0.0	0.0					
				Curved surface	2	2					1.8m x 1.0m	11,948		23,896
	Transport		m ²	Total	19	19	0.0	0.0	0.0					
				Transport	19	19							18	342
Waterproofing work			Unit											
	Sealing	Two-component type	m	Total	26	26	0	0	0					
				15mm~20mm wide	26	26					(1.2m+ 3.9m) x 2	1,450		37,700
Metal work			Unit											
	High-luminance reflecting sheet		m	Total	4	4	0	0	0					
				Steel foundation	4	4					1.8m x 2 steps	11,100		44,400
	Guard fence		Point	Total	1	1	0	0	0					
				W1000xH2600	1	1						547,000		547,000
Plaster work			Unit											
	Concrete leveling		m ²	Total	55	55	0	0	0				55	3,025
				Thin finish	55	55					1.8m x 25m			
Lane Marking			Unit											
			m	Total	154	154	0	0	0					
				15cm wide	120	120							155	18,600
				45cm wide	34	34							511	17,374
Truck Scale			Unit											
			LS	Total	1	1	0	0	0					
					1	1							6,753,000	6,753,000
Total Unit Cost														7,766,797

TOLL COLLECTION FACILITY

LARGE ROOF

Level 3 (Category)	Level 4 (Item)	Level 5 (Standard)	Unit	Quantity by item type	Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Temporary works			Unit											
	Scaffold		m	Total	1048	1048	0	0	0					
				Single pipe scaffold	1048	1048					{(53.7+2)+(12+2)}×2×(6.52+1)	3,571		3,742,408
	Transport of scaffolding materials		Unit	Total	1	1	0	0	0					
					1	1							7,291	7,291
Waterproofing work			Unit											
	Sealing	Two-component type	m	Total	2705	2705	0	0	0					
				10mm~20mm wide	2705	2705						1,450		3,922,250
Roofing work			Unit											
	Folded plate		m	Total	648	648	0	0	0					
				Folded plate	648	648					54m x 12m	19,600		12,700,800
	Tight frame		m	Total	270	270	0	0	0					
				Tight frame	270	270					54m x 5 pieces	6,800		1,836,000
	Sealing strip		m	Total	108	108	0	0	0					
				Sealing strip	108	108					54m x 2 pieces	5,100		550,800
	Flashing		m	Total	108	108	0	0	0					
				Flashing	108	108					54m x 2 pieces	16,700		1,803,600
	Gutter		m	Total	130	130	0	0	0					
				Eaves gutter	108	108					54m x 2 pieces	42,500		4,590,000
				Downpipe	22	22					5.5m x 4 pieces	2,865		63,030
Metal work			Unit											
	Light shielding wall		m2	Total	84	84	0	0	0					
				Folded punching metal	84	84					(8+5.24)×2	75,700		6,358,800
	Supporting metal for lighting		Point	Total	160	160	0	0	0					
				425 x 1400	160	160					8m x 2 pieces x 10 lanes	11,600		1,856,000
	Booth duct cover	Steel sheet	Point	Total	9	9	0	0	0					
				1.6mm thick	9	9					9Booth	34,900		314,100

Level 3 (Category)	Level 4 (Item)	Level 5 (Standard)	Unit		Quantity by item type	Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Steel framework			Unit												
	Steel material		t		Total	46	46	0	0	0					
					Steel material										
					H shaped steel	13	13					G1 107.4m	116,000		1,508,000
					H shaped steel	4	4					G2 48m	116,000		464,000
					H shaped steel	1	1					CG1 24m	116,000		116,000
					H shaped steel	2	2					B1 80m	116,000		
					H shaped steel	1	1					CB1 40m	116,000		
					Lip channel steel	3	3					B2 107.4m	135,000		405,000
					Angle Steel	1	1					H1 110m	161,000		161,000
					Square pipe steel	21	21					C1 84m	120,000		2,520,000
	Bolt		t		Total	2	2	0	0	0					
					High-tension	2	2						380,000		760,000
	Bolt		Piece		Total	1040	1040	0	0	0					
					Hexagon	680	680						11		7,480
					Anchor	360	360						540		194,400
	Base	Mortar	Point		Total	30	30	0	0	0					
					650mm×650mm 30mm thick	30	30						7,117		213,510
	Shop fabrication		t		Total	100	100	0	0	0					
					Shop fabrication	100	100							8,415	841,500
	Ultra sonic test		Point		Total	200	200	0	0	0					
					Ultra sonic test	200	200							89	17,800
Equipment work					Unit										
	Electrical equipment	Electrical cable	m		Total	185	185	0	0	0					
					600V vinyl	185	185						339		62,715
	Electrical equipment	Wiring work	m		Total	180	180	0	0	0					
					Duct	125	125						748		93,500
					Rack	55	55						857		47,135
	Electrical equipment	Installation work	Light		Total	40	40	0	0	0					
					Lighting LED	40	40					4 lights x 10 lanes	144,776		5,791,040
Installation of lightning arrester			Unit												
	Earth work		Point		Total	1	1	0	0	0					
					Sheet copper method 900×900×1.5t	1	1							4,696	4,696
Total															50,952,855

TOLL COLLECTION FACILITY

BOOTH (1.2 × 3.9)

Level 3 (Category)	Level 4 (Item)	Level 5(Standard)	Unit		Quantity by item type					Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)	
Waterproofing work				Unit																
	Sealing	Two-component type	m		Total					71.6	71.6	0.0	0.0	0.0						
					20mm wide	Panel joining strips			71	71							2,500		177,500	
					12mm x 30mm	Flashing			0.6	0.6							2,500		1,500	
Framework construction				Unit																
	Steel		Point		Total					5	5	0.0	0.0	0.0						
					Steel				5	5							325,000		1,625,000	
Metal work				Unit																
	Roof	Steel panel	m ²		Total					5	5	0.0	0.0	0.0						
					2.3mm thick				5	5							24,000		120,000	
	Ceiling	Steel panel	m ²		Total					0.4	0.4	0.0	0.0	0.0						
					4.5mm thick				0.4	0.4							33,000		13,200	
	Floor	Steel panel	m ²		Total					4	4	0.0	0.0	0.0						
					3.2mm thick				4	4							33,000		132,000	
	Exterior panel	Steel panel	m ²		Total					24	24	0.0	0.0	0.0						
					2.3mm thick				24	24							24,000		576,000	
	Flashing	Stainless steel	m		Total					0.6	0.6	0.0	0.0	0.0						
					1.0mm tick				0.6	0.6							15,000		9,000	
	Interior panel	Steel panel	m ²		Total					20	20	0.0	0.0	0.0						
					0.7mm thick				20	20							39,200		784,000	
Steel framework				Unit																
	Steel material		t		Total					1.9	1.9	0.0	0.0	0.0						
					Steel material	H shaped steel			0.3	0.3							100,000		30,000	
						Channel shaped steel			0.3	0.3							100,000		30,000	
						Angle steel			0.1	0.1							107,000		10,700	
						Light gauge steel			0.1	0.1							109,000		10,900	
						Steel plate			0.2	0.2							115,000		23,000	
						Square pipe steel			0.9	0.9							139,000		125,100	
	Bolt	M16 L=45	t		Total					33	33	0.0	0.0	0.0						
					High-tension				33	33							800		26,400	
	Bolt		Piece		Total					100	100	0.0	0.0	0.0						
					Semi-finished bolt				100	100							200		20,000	
	Shop fabrication		t		Total					2	2	0.0	0.0	0.0						
					Shop fabrication				2	2							1,070,000		2,140,000	
	Ultra sonic test		Point		Total					136	136	0.0	0.0	0.0						
					Ultra sonic test				136	136							2,000		272,000	

Level 3 (Category)	Level 4 (Item)	Level 5(Standard)	Unit	Quantity by item type	Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Painting work			Unit											
	FUE painting	Steel plate surface	m	Total	24	24	0.0	0.0	0.0					
					24	24						16,000		384,000
	FUE painting	Framework surface	m	Total	10	10	0.0	0.0	0.0					
					10	10						8,000		80,000
Interior finish work			Unit											
	Floor	Vinyl sheet	m	Total	4	4	0.0	0.0	0.0					
					4	4						10,000		40,000
	Baseboard	Soft cove base	m	Total	8	8	0.0	0.0	0.0					
				H=60	8	8						4,200		33,600
Equipment work			Unit											
	Air conditioning equipment	Room air conditioner	Set	Total	1	1	0.0	0.0	0.0					
				Double-flow ceiling cassette type	1	1						550,000		550,000
	Electrical equipment	Lighting equipment	Set	Total	2	2	0.0	0.0	0.0					
				Hanging type	2	2						99,100		198,200
		Distribution board	Set	Total	1	1	0.0	0.0	0.0					
				Indoor type	1	1						880,000		880,000
Total Unit Cost														8,292,100

TOLL COLLECTION FACILITY

BOOTH (1.4 × 6.0)

Level 3 (Category)	Level 4 (Item)	Level 5(Standard)	Unit	Quantity by item type					Total	Breakdown of quantity Attached					Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Waterproofing work			Unit															
	Sealing	Two-component type	m	Total					99	99	0.0	0.0	0.0					
				20mm wide	Panel joining strips			85	85						2,500		212,500	
				12mm x 30mm	Flashing			14	14						2,500		35,000	
Framework construction			Unit															
	Steel		Point	Total					2	2	0.0	0.0	0.0					
				Steel				2	2						410,000		820,000	
Metal work			Unit															
	Roof	Steel panel	m ²	Total					7	7	0.0	0.0	0.0					
				2.3mm thick				7	7						17,000		119,000	
	Ceiling	Steel panel	m ²	Total					7	7	0.0	0.0	0.0					
				4.5mm thick				7	7						14,000		98,000	
	Floor	Steel panel	m ²	Total					7	7	0.0	0.0	0.0					
				3.2mm thick				7	7						26,000		182,000	
	Exterior panel	Steel panel	m ²	Total					37	37	0.0	0.0	0.0					
				2.3mm thick				37	37						14,000		518,000	
	Flashing	Stainless steel	m	Total					14	14	0.0	0.0	0.0					
				1.0mm tick				14	14						6,000		84,000	
	Interior panel	Steel panel	m ²	Total					28	28	0.0	0.0	0.0					
				0.7mm thick				28	28						14,000		392,000	
Steel framework			Unit															
	Steel material		t	Total					2.5	2.5	0.0	0.0	0.0					
				Steel material	H shaped steel			0.4	0.4						100,000		40,000	
					Channel shaped steel			0.5	0.5						100,000		50,000	
					Angle steel			0.1	0.1						107,000		10,700	
					Light gauge steel			0.1	0.1						109,000		10,900	
					Steel plate			0.4	0.4						115,000		46,000	
					Square pipe steel			1	1						139,000		139,000	
	Shop fabrication		t	Total					2	2	0.0	0.0	0.0					
				Shop fabrication				2	2						584,000		1,168,000	
	Ultra sonic test		Point	Total					354	354	0.0	0.0	0.0					
				Ultra sonic test				354	354						2,000		708,000	
Painting work			Unit															
	FUE painting	Steel plate surface	m ²	Total					37	37	0.0	0.0	0.0					
								37	37						16,000		592,000	
	FUE painting	Framework surface	m ²	Total					7	7	0.0	0.0	0.0					
								7	7						8,000		56,000	
Equipment work			Unit															
	Air conditioning equipment	Room air conditioner	Set	Total					2	2	0.0	0.0	0.0					
				Double-flow ceiling cassette type				2	2						550,000		1,100,000	
	Electrical equipment	Lighting equipment	Set	Total					3	3	0.0	0.0	0.0					
				Hanging type				3	3						89,600		268,800	
		Distribution board	Set	Total					1	1	0.0	0.0	0.0					
				Indoor type				1	1						880,000		880,000	
Total Unit Cost																		7,529,900

TOLL COLLECTION FACILITY

STAIRCASE

Level 3 (Category)	Level 4 (Item)	Level 5(Standard)	Unit		Quantity by item type					Total					Breakdown of quantity Attached	Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)	
Roofing work			Unit		unit															
	Folded plate		m		Total					9	9	0.0	0.0	0.0						
					Folded plate					9	9						6,730		63,666	
	Tight frame		m		Total					15	15	0.0	0.0	0.0						
					Tight frame					15	15						3,440		52,116	
	Sealing strip		m		Total					23	23	0.0	0.0	0.0						
					Sealing strip					23	23						2,830		65,373	
	Flashing		m		Total					6	6	0.0	0.0	0.0						
					Flashing					6	6						2,890		17,600	
	Gutter		m		Total					15	15	0.0	0.0	0.0						
					Eaves gutter					6	6						10,600		64,554	
					Downpipe					9	9						57,800		512,686	
Steel framework					unit															
	Steel material		t		Total					14.4	14.4	0.0	0.0	0.0						
					Steel materials	H shaped steel				1	1						116,000		77,604	
						Square pipe steel				14	14						120,000		1,644,000	
	Bolt		t		Total					0.4	0.4	0.0	0.0	0.0						
					High-tension					0.4	0.4						380,000		152,000	
	Bolt		Piece		Total					79	79	0.0	0.0	0.0						
					Hexagon					71	71						11		781	
					Anchor					8	8						4,500		36,000	
	Base	Mortar	Point		Total					12	12	0.0	0.0	0.0						
					350mm×350mm 30mm thick					12	12						4,210		50,520	
	Shop fabrication		t		Total					14	14	0.0	0.0	0.0						
					Shop fabrication					14	14							8,415	120,915	
	Ultra sonic test		Point		Total					60	60	0.0	0.0	0.0						
					Ultra sonic test					60	60							89	5,340	
Total Unit Cost																			2,863,155	

TOLL COLLECTION FACILITY

ADMINISTRATIVE OFFICE

Level 3 (Category)	Level 4 (Item)	Level 5 (Standard)	Unit	Quantity by item type					Total	Breakdown of quantity Attached					Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Temporary works			Unit															
Scaffold	Scaffold		m	Total					431	431	0.0	0.0	0.0					
				Prefabricated scaffold					231	231						2,922		674,982
				Stepladder scaffold					200	200						1,500		300,000
	Transport of scaffolding materials		Unit	Total					1	1	0.0	0.0	0.0					
									1	1						16,500	16,500	
Earthwork			Unit															
Excavation	Excavation		?	Total					428	428	0.0	0.0	0.0					
				Excavation					428	428							83	35,524
				Leveling work					261	261	0.0	0.0	0.0				17	4,437
	Plate bearing test	Soil bearing capacity: 40kN/n	Point	Total					1	1	0.0	0.0	0.0					
									1	1						19,250	19,250	
Foundation work			Unit															
Gravel foundation	Gravel foundation		m3	Total					16	16	0.0	0.0	0.0					
				Gravel foundation					16	16						12,000		192,000
Steel framework			Unit															
Deformed steel bar	JISG3112 SD295A		t	Total					5	5	0.0	0.0	0.0					
				D10					5	5						76,800		384,000
Deformed steel bar	JISG3112 SD295A		t	Total					8	8	0.0	0.0	0.0					
				D13					8	8						74,400		595,200
Deformed steel bar	JISG3112 SD295A		t	Total					7	7	0.0	0.0	0.0					
				D16					7	7						72,000		504,000
Deformed steel bar	JISG3112 SD345		t	Total					2	2	0.0	0.0	0.0					
				D19					2	2						74,400		148,800
Deformed steel bar	JISG3112 SD345		t	Total					1	1	0.0	0.0	0.0					
				D22					1	1						74,400		74,400
Preparation of reinforcement bar			t	Total					22	22	0.0	0.0	0.0					
									22	22							5,363	117,986
Gas-pressure welding of reinforcement bar			Point	Total					90	90	0.0	0.0	0.0					
				D19					57	57							40	2,280
				D22					33	33							42	1,386
Transport of reinforcement bar			t	Total					22	22	0.0	0.0	0.0					
									22	22							659	14,498

Level 3 (Category)	Level 4 (Item)	Level 5 (Standard)	Unit	Quantity by item type					Total	Breakdown of quantity Attached					Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)			
Concrete work																					
Concrete work	Plain concrete	Nominal strength	?	Total					13	13	0.0	0.0	0.0								
				Sub slab concrete					13	13						15,000		195,000			
	Plain concrete	Nominal strength JIS A5308: 24S18 coarse aggregate 20	?	Total					153	153	0.0	0.0	0.0								
				Foundation part					153	153						13,500		2,065,500			
	Plain concrete	Nominal strength JIS A5308: 24S18 coarse aggregate 20	?	Total					4	4	0.0	0.0	0.0								
Above-ground part					4	4						15,000		60,000							
Placement work			Unit	Total					1	1	0.0	0.0	0.0								
									1	1							44,000		44,000		
Foam work																					
Foam work	Normal mold		㎡	Total					567	567	0.0	0.0	0.0								
									567	567						5,300		3,005,100			
	Transport cost		㎡	Total					567	567	0.0	0.0	0.0								
									567	567							31		17,577		
Surface repair			㎡	Total					31	31	0.0	0.0	0.0								
									31	31							83		2,573		
Precast concrete work																					
Precast concrete work	Exterior wall of ALC panel	Fireproof joint and joint seal	m	Total					143	143	0.0	0.0	0.0								
				t=125 W=600					143	143							545		77,935		
Waterproofing work																					
Waterproofing work	Sealing (Two-component type)		m	Total					203	203	0.0	0.0	0.0								
				more than 15mm but not more than 20mm					61	61						1,200		73,200			
				W15×10 double					130	130						1,600		208,000			
10mm or less					12	12						1,000		12,000							
Tile work																					
Tile work			㎡	Total					4	4	0.0	0.0	0.0								
				100mm square					1	1						30,000		30,000			
				300mm square					3	3											
Woodwork																					
Woodwork	Floor substrate board		㎡	Total					179	179	0.0	0.0	0.0								
				t=12 + 12 Lauan					179	179						6,000		1,074,000			
Roofing work																					
Roofing work	Folded plate roof	Colored Galvalume steel plate	㎡	Total					205	205	0.0	0.0	0.0								
				t=1.0 Chevron:155 Working width: 300					205	205						23,500		4,817,500			
	Tight frame			m	Total					159	159	0.0	0.0	0.0							
Chevron:155 Working width: 300					159	159						2,800		445,200							
Roof eaves	Colored Galvalume steel plate		m	Total					51	51	0.0	0.0	0.0								
				t=1.0 W210×H200 both gutter bracket and stiffener					51	51						10,000		510,000			

Level 3 (Category)	Level 4 (Item)	Level 5 (Standard)	Unit	Quantity by item type					Total	Breakdown of quantity Attached					Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)
Metal work			Unit															
	Wall substrate of light gauge steel	Stud 65type	m	Total					358	358	0.0	0.0	0.0					
				at 300mm interval					358	358						2,000		716,000
	Ceiling substrate of light gauge steel	Ceiling joist 19type	m	Total					186	186	0.0	0.0	0.0					
				at 300mm interval					186	186						6,000		1,116,000
Plaster work			Unit															
	Floor: mortar plastering	Trowel finish	m	Total					46	46	0.0	0.0	0.0					
									46	46						5,000		230,000
	Leveling mortar under exterior ALC wall		m	Total					59	59	0.0	0.0	0.0					
									59	59							83	4,897
Framework construction			Unit															
	Fixture		Point	Total					27	27	0.0	0.0	0.0					
				Fixture					27	27							7,942	214,434
Painting work			Unit															
	Exterior wall (skirting)	Water repellent	m	Total					31	31	0.0	0.0	0.0					
									31	31							165	5,115
	Surface of steel fixture	Rust preventive also	m	Total					11	11	0.0	0.0	0.0					
									11	11							110	1,210
Interior/exterior finish work			Unit															
	Wall: plaster board		m	Total					393	393	0.0	0.0	0.0					
									393	393						1,000		393,000
	Ceiling: plaster board		m	Total					58	58	0.0	0.0	0.0					
									58	58						900		52,200
	Floor: Vinyl flooring		m	Total					61	61	0.0	0.0	0.0					
									61	61						3,700		225,700
	Floor: Carpeted flooring		m	Total					117	117	0.0	0.0	0.0					
									117	117						3,000		351,000
	Wall: wallpaping		m	Total					371	371	0.0	0.0	0.0					
									371	371						1,600		593,600
	Ceiling: rock wall sound acoustic board		m	Total					128	128	0.0	0.0	0.0					
									128	128						6,900		883,200
	Ceiling: wallpaping		m	Total					58	58	0.0	0.0	0.0					
									58	58						1,100		63,800
Unit construction work			Unit															
	Floor: dry removal flooring		m	Total					179	179	0.0	0.0	0.0					
									179	179						4,300		769,700

Level 3 (Category)	Level 4 (Item)	Level 5 (Standard)	Unit	Quantity by item type					Total	Breakdown of quantity Attached					Remarks	Unit Price (JPY)	Local Unit Price (JPY)	Cost (JPY)	
Steel framework			Unit																
	Steel frame		t	Total					8.3	8.3	0.0	0.0	0.0						
				H shaped steel	SS400 250×125×6×9	4	4								116,000		464,000		
				Equal-angle steel	SS400 L-75×75×6~9	1	1								135,000		135,000		
				Square pipe steel	STKR400 100×100×3.2	2	2								120,000		240,000		
				Flat steel	SS400	0.1	0.1								128,000		12,800		
				Lip channel steel	SSC400 C-100×50×20×1.6	0.2	0.2								135,000		27,000		
				Steel plate	Cut plate SS400	1	1								240,000		240,000		
	Shop fabrication/ assembly		t	Total					9	9	0.0	0.0	0.0						
									9	9						13,750	123,750		
	Transport		t	Total					9	9	0.0	0.0	0.0						
									9	9						1,254	11,286		
	Assembly work		L.S.	Total					1	1	0.0	0.0	0.0						
									1	1						56,265	56,265		
	High Tensile bolt		t	Total					0.3	0.3	0.0	0.0	0.0						
									0.3	0.3					540,000		162,000		
	Tightening of torque share type high-tension bolt		L.S.	Total					1	1	0.0	0.0	0.0						
									1	1						12,210	12,210		
	Exposed type fixed column base		Point	Total					15	15	0.0	0.0	0.0						
									15	15					126,000		1,890,000		
	Ultra sonic test		Point	Total					99	99	0.0	0.0	0.0						
									99	99						275	27,225		
Electric lead-in			Unit																
			Unit	Total					1	1	0.0	0.0	0.0						
									1	1					2,671,000		2,671,000		
Electrical equipment work			Unit																
			Unit	Total					1	1	0.0	0.0	0.0						
									1	1					6,221,100		6,221,100		
Air-conditioning equipment work			Unit																
			Unit	Total					1	1	0.0	0.0	0.0						
									1	1						21,501,400		21,501,400	
Exterior work			Unit																
	Boundary Fence	Wire Fence(Metallic Net Type) Φ3.2×50mm (H=1800)	m	Total					229	229							9,054	2,073,366	
	Gate	1800×4000(Metallic Net Type)	nos						1	1						523,125	523,125		
	Pavement	Type-E6	m2						175	175						2,876	503,300		
Total Unit Cost																			58,457,511