4. Breakdown of Direct Cost

Part A Facilities for the Engineer

A(1) a	Provision of Combined Field Office/Labor	ratory	Bldg. and Liv	ing Quar	ter								Unit:	1.00 [S.	
							it Rate					Amou	nt			
(tem No.	Description	Unit	Quantity	Lab,		ponent (Equip. [Local	Total (PP)	Labor	Material	Component (PP) Equipment	Foreign	Local	Total (PP)	Remarks
	Site Preparation for Engineer's Field	m2	1, 800, 00	1.5%	8. 2%	90, 3%	54. 4%	45, 6%)	2. 53	68, 31	373.43		2, 477, 48	2, 076, 52	4, 554, 00	
	Office and Living Quarters Excevation, Backhoe U.61m3	m3	181, 28	1, 1%	8.4%	87. 2%	52.9%	47. 1%	40. 90	326, 23	622, 81	6, 465, 31	3, 920, 61	3, 493, 74	7, 414, 35	
	Disposal of Surplus Soil (backhoe	m3	52, 77	8.1%	14.8%	77.1%	51, 5%	48, 5%	93. 00	399, 72	724.01	1	2, 526. 14	2, 381, 47	4, 907, 61	
	loading)	1		1					ŀ			1 1		-		
	Backfill H Gravel Foundation Fill	m3 m3	128, 51 59, 98	7. 7% 24. 8%	10.0%	82. 3% 62. 1%	51.3% 39.0%	48. 7% 61. 0%	111.00 390.00	1, 091, 51 5, 806, 67	1, 428, 48 3, 057, 75		7, 313, 52 9, 119, 01	6, 951, 09 14, 273, 19	14, 264, 61 23, 392, 20	
	Concrete (Class A. 21MPa, max agg. 38mm)	m3	16, 93	2. 5%	79.7%	17.7%	56, 7%	13, 3%	1, 630, 00	701, 31	22, 000. 54		15, 645. 26	11, 950, 64	27, 595, 90	
	Concrete (Class D. 17MPa, max agg. 50mm)	m3	54.00	3, 0%	75, 5%		56. 1%	13, 9%	1, 400, 00	2, 281, 45	57, 091, 46		12, 404, 79	33, 195, 21	75, 600, 00	
· -	Concrete Pouring by Pump Vehicle	l !) i i	ì	- 1	45. 2%		· I			1		Y	-	
Missa	(reinforced concrete)	m3	70, 93	15, 5%	0.2%	84.3%		54. 8%	257.00	2, 831, 93	35, 74	1 1	8, 232, 16	9, 996. 85	18, 229, 01	
	Concrete Curing (reinforced concrete)	m3	70, 93	74.6%	7.6%	17.8%	14, 0%	86.0%	4. 21	222. 85	22. 73		41.67	256. 95	298, 62	
1	Formwork (reinforced concrete HK4m) Reinforcement Grade 40, cutting, bending	m2	138, 16	59. 3%	39, 9%	0.8%	2.9%	97. 1%	224. 00	18, 347, 75	12, 357. 36	1 1	903. 97	30, 044, 77	30, 947, 84	
W0251	& assembly	kg	2, 584, 50	15. 2%	77.0%	7.8%	54, 0%	46.0%	23. 30	9, 145, 34	46, 371. 76	4, 701, 75	32, 515. 13	27, 703, 72	60, 218. 85	
₩3002	150mm Thick Concrete Hollow Block Wall	m2	116, 00	12. 5%	84, 4%	3.0%	36, 5%	63. 5%	331,00	4, 808. 10	32, 420, 08		14, 011, 30	24, 384, 70	38, 396. 00	
	100mm Thick Concrete Hollow Block Wall	m2	44. 88	13.6%	83.1%	3.4%	37. 4%	62, 6%	305, 00	1, 859, 54	11, 369, 40	459. 46	5, 125, 11	8, 563. 29	13, 688, 40	
	Structural Steel Fabrication and		81.51	2 04	en	/	- CA 18	20.00		#	F50 800 80	210 200 20	Fog. 880 30	une au en	040 000 00	
	Erection For Engineers Office and Living Quarter	t	21. 31	7, 6%	66. 3%	26. 1%	60.1%	39. 9%	39, 600. 00	64, 252. 57	559, 732. 57	219, 890. 86	507, 230, 38	336, 645, 62	843, 876. 00	
1	Prepainted Corrugated G. I. Roofing					1			4			1				
W3094	Fabrication & Erection	m2	526. 19	8.2%	79, 6%	12.2%	54.4%	45. 6%	160,00	6,897.62	67,021,40	10, 271. 38	45, 784. 39	38, 406, 01	84, 196, 40	
W3005	Prepainted Steel Wall Panels on Steel	m2	150, 27	2.5%	92.9%	4.6%	62. 1%	37, 9%	628. 00	2, 337, 00	87, 715, 93	4, 316, 63	58, 624, 05	35, 746, 61	94, 369, 56	
	Frames with Insulation Prepainted Steel Wall Partitions on	""	,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5, 0, 0.0	W1, 1101 DC	, , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	
	Steel Frames with Insulation (Double	m2	152, 31	2. 5%	92.9%	4, 6%	62.1%	37, 9%	624, 00	2, 369, 17	88, 299, 31	4, 372, 96	59, 055, 05	35, 986, 39	95, 041, 44	
	Walling] ""-	[2, 51		J2. J/	1, 17,6	05.17	01.00	021,00	2, 503, 11	00, 235, 11	1, 372, 30	g.a, obb. oo	33, 700, 32	50, Ott. 11	
₩3007	Plain Cement Floor Finish	m2	312, 00	7.6%	85.6%	6.9%	54.3%	45, 7%	63, 20	1, 497, 48	16, 870, 12	1, 350, 79	10, 712, 45	9, 005, 95	19, 718, 40	
W3008	Plain Cement Floor Finish with non-skid	m2	204, 00	8.0%	85, 1%	6.8%	54.1%	45, 9%	63, 50	1, 042, 69	11, 026, 64	884, 67	7, 002, 76	5, 951, 24	12, 954, 00	
	cement with groove lines Unglazed Tile Finish (8" x 8")	1 !	Ť	"	97.9%	- 1	50. 2%	39. 8%	589. 00		· ·		8, 514, 82			
	Cynsum Board Cejling	m2 m2	24, 00 336, 00	1.6%	97.9%			39.8%	589.001 351,001	233, 07 1, 944, 461	13, 832, 95 115, 407, 70		8, 514, 82 71, 038, 71	5, 621, 18 46, 897, 29	14, 136, 00 117, 936, 00	
1	Doors & Windows for Engineer's Field	i I		l I		1		- 1				· I			· ·	
	Office and Living Quarters	L. S.	1, 00	5. 2%	90, 7%	4. 1%		58, 7%	355, 000. 00	18, 636, 48	321, 979. 49	14, 384, 62	146, 761, 79	208, 238, 21	355, 000, 00	
	Lighting and Powers	L. S.	1.00		93.5%	1.5%	56, 6%	43, 4%	138, 000. 00	6, 913, 31	129, 057, 28	2, 029, 41	78, 158. 91	59, 841, 09	138, 000. 00	
	Sewer Water Line	L. S.	1.00	4.4%	94.9%	0, 7%	49.8%	50.2%	(15,000,00	5, 106, 03	109, 096, 94		57, 252, 15	57, 747, 85	115,000,00	
	Septic Tank	each	1, 00	14.3%	63,6%	22.0%	44. 2%	55, 8%	20, 700, 00	2, 968, 28	13, 171, 89	4, 559, 83	9, 146, 09	11, 853, 91	20, 700, 00	
W3017	Cyclone Fence and Gate For the Engineer's Office	п	40, 00	3, 2%	93, 2%	3.6%	49. 1%	50, 9%	1, 840. 00	2, 350, 85	68, 601. 50	2, 647, 66	36, 133. 88	37, 466, 12	73, 600, 00	
W1010	Barbed Wire Pence for the Engineer's			ا د ا	00.00	ا ا		a				005.50				
#2019	Office	m	130.00	1	92. 8%	1.7%		85, 3%	127.00	895, 76	15, 325, 71	1	2, 418. 94	14, 091, 06	16, 510, 00	
W3019	Temporary Office Rental	month	3. 00	0.0%	0.0%	100.0%	15.0%	85, 0%	18, 000, 00	0,00	0.00		B, 100, 00	45 , 900, 00	54, 000, 00	
	Miscellaneous	LS	1,00	 -		\longmapsto				0,00	0. 00		0,00	0,00	0.00	0.0%
	Total Components (%)	 		├ ──┤						165, 335, 48	1, 805, 014, 99		1, 250, 169, 61 52, 6%	1. 124, 369, 58	2, 374, 539, 19	
	Unit Rate	L. S.		 	<u> </u>			 +		7, 0%] 165, 019, 43	76. 0% 1, 801, 564, 51		1, 247, 779. 78	47. 4% 1, 122, 220. 22	2, 370, 000, 001	

		1 -				11	nit Rate		1			Amour	vt			
Item No.	Description	Unit	Quantity		Con	ponent		" 	Total			Component (PP)			Total	Remarks
				Lab.		Equip.		Local	(PP)	Labor	Material	Equipment	Fareigo	l.ocal	(PP)	
L020	Unskilled Labor	md	122, 50	100,0%	0.0%	0.0%	0, 0%	100, 0%	314.00	38, 465, 00	0.00	0.00	0.00	38, 465, 00	38, 465, 00	
1.020	Unskilled Labor	nd	50.00	100.0%	0.0%	1). 0%	0.0%	[100, 0%]	314.00	15, 700, 00	(0,00	0.00]	0. 00	15, 700, 00	15, 700, 00	
f.01a	Skilled Labor	, md ,	25, 00	100.1%	0.0%	0.0%	0.0%		403, 00	10, 075. 00	8, 00	0.00	0, 00	10, 075, 00	10, 075, 00	
L020	Unskilled Labor	md	25, 00	100, 0%	0.0%	g. 0%	0, 0%		314.00	7, 850, 00	0.00	0.00	0.00	7, 850, 00{	7, 850, 00	
MO1009	Electric Supply	kWh	2, 200, 00	0.0%	100.0%	0.0%	50, 0%		4.00	0,00	8, 800, 00	0, 00	4, 490, 00	4, 400, 00	8, 800. 00	
M01010	Water Supply	m3	20.00.	0.0%	100.1%	0.0%	10.0%	90.0%	66, 20	0.00	1, 324, 00	0.00	132, 40	1, 191.60	1, 324, 00	
M01020	Propane Gas	kg .	25, 00	0.0%	100.0%	0.0%	50.0%	50.0%	32.60	0.00	815.00	0, 00	407, 50	407, 50	815.00	
	Miscellaneous for Office & Living	1 " 1	4.00								052.05	140.05	247 (1)		1 010 00	
#3101	Quarter Maintenance	month	1,00	0, 0%	85.9%	14.1%	34, 4%	65. 6%	1, 010, 00	0, 00	867. 95	142, 05	347. 41	662. 59	1,010.00	
	Miscellaneous	Ls	1.00					l í		0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									72, 090, 00	11, 806, 95	142, 05	5, 287, 31	78, 751, 69	84, 039, 00	
	Components (%)									85, 8%	11.0%	0.2%	6, 3%	93, 7%	100.0%	
	Unit Rate	Month								72, 056, 55	11, 801, 47	141.98	5, 284, 86	78, 715, 14	84, 000, 00	
	ONTE MACE	<u> respirata</u>								(5) 000: 55]	111001, 111	111.001	0,001	10,110, (1)	01,000,001	
c	Provision of Furniture and Fixtures for	the F	ield Office/La	borator	g and Li	ving Qua	arter						Unit:	1,00 [,	. S.	
Te No.	Description	Unit	0		C		nit Rate	e	Total			Component (PP)	nt		Total	Remarks
Item No.	nescription	Outi	Quantity	Lab.		panent Equip.		Local	(PP)	Lahor	Material	Equipment (Pr)	Foreign	Local	(PP)	nemark:
W3102	Furniture and Fixtures for Field Office	1	1 00		99.1%				332, 000, 00	493, 07	328, 877, 23	2, 629, 70	114, 671, 09	217, 328, 91	332, 000, 00	
#31UZ	Furniture and Fixtures for Living	L. S.	1, 00	0, 1%	99, 1%	0.8%	34.5%	po. 0%	332, 900. 00	493, 07	360, 811. 23	2, 029, 10		211, 328, 91		
W3105	Quarter	լ. s.	1.00	0.1%	99.1%	0.8%	31.9%	68.1%	217, 000, 00	322, 28	214, 958, 91	1, 718, 81	69, 301, 41	147, 698, 59	217, 000, 00	
		l is l	4			- 1			· I		ا ۵٫٫٫۰	2.80				4. 4.84
	Miscellaneous	L LAS	1.00							0,00	0,00	0.00	0.00	0.00	0.00	0.0%
	Total	├ ──┤								815, 35	543, 836, 14	4, 348, 51	183, 972, 49	365, 027, 51	549, 000. 00	
	Components (%)	 				-		├ ─┤		0, 1%	99.1%	0.8%	33, 5%	66.5%	100.0%	
	Unit Rate	l. s. l						<u> </u>	l	815. 35	543, 836, 14	1, 348, 51	183, 972, 49	365, 027, 51	549, 000, 00	
d	Provision of Equipment and Appliances	or the	Field Office/	laborat	ary Ride	and 1.	ivina Oı	uarter					<u>U</u> nit:	1. 00 L	S.	
		T	77575 577(50)	10001.00			nit Rate					Amour				
Ltem No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
	1	,	400	Lab.		Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
	Equipment and Appliances for Field	1														
₩3103	Office	I S.	1,00	0.1%	99. 1%	0, 8%	73.0%	27.0%	225, 000, 00	334. 16	222, 883, 66	1, 782, 18	164, 316, 33	60, 683. 67	225, 000.00	
_	Equipment and Appliances for Living	1 1						11		1	. 1		j	Y	Y	
#3106	Quarter	i S.	1, 00	0, 1%	99.1%	0.8%	39.8%	60.2%	87, 600, 00	130, 10	86, 776, 04	693, 8 6	34, 892, 75	52, 707, 25	87, 600. 00	
	Miscellaneous	Ls	1.00					1 1	· .	0.001	0.00	0. 80	0.00	0, 00	0, 00	0.0%
	Total	†- 						 		464, 26	309, 659, 70	2, 476, 04	199, 209, 08	113, 390, 92	312, 600, 00	0.00
	Components (%)	1				——		 		0. 1%	99. 1%	0. 8%	63. 7%	36. 3%	100.0%	
	Unit Rate	1 S.						 		464, 85	310, 055, 94	2, 479, 21	199, 463, 99	113, 536, 01	313, 000, 00	
	. OBIT RELE	1 67. 3.								101, 001	310, 003. 341	2, 110. 21	193, 103, 98	110, 000, 011	513,000,00	
) e	Provision of Office Supplies and Consu	tah ta											Unit	36.00 m	onth	
	Tradition of street cappaign and const-	T					nit Kate					Атон		00. 00 III	·····	
Item No.	Rescription	Unit	Quantity		Cor	ponent		<u></u>	Total			Component (PP)			Total	Remark
1100		",,,,,	Quant to y	Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	KOHEI P
W3111	Office & Living Quarter Supplies	1., S.	1.00	0, 3%	98.1%		50, 9%		14, 300, 00	42, 06	14, 033, 63	224. 31	7, 275, 31	7, 024, 69	14, 300, 00	
₩3112	Office & Living Quarter Consumables	month	36,00	0, 3%					16, 200, 00	1,715.29	572, 336, 47	9 148.24	207, 539, 96	375, 660, 64	583, 200, 00	
W5112	Miscellaneous	LS	1.00	0.5%	20.174	1, 0,0	30,00	01.17	111, 200, 00	6, 00	0.00	0.00	0.00	0.00	0, 00	0.0%
	Total	1 10	1.00	 -			_	 		1, 757, 35	586, 370, 10	9, 372, 55	214, 815, 27	382, 684, 73	597, 500, 00	0.0%
	Components (%)	+-+						-		0.3%	98.1%	1, 6%	36, 0%	64.0%	100.0%	
	linit Rate	month	· 							48, 82	16, 290, 78	260. 39	5, 968. 09	10, 631, 91	16, 600, 00	
	mi) t nate	рионещ				لسسيا				10.021	10, 230, 101	200. 331	3, 208, 091	(0, 631, 91	10, 100, 001	
) f	Provide/Operate/Maintain Communication	Equipm	ient										Unit:	36, 00 m	onth	
							nil Rat	ė _				Amous	nt			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)	_	Total			Component (PP)			Total	Remari
	<u> </u>	┸	L	Lab.	Mat.	Equip.			(PP <u>)</u>	Labor	Material	Equipment	Foreign	Local	(PP)	
	Office Telephone	set	1.00			0.0%	80.0%		1, 000, 00	0, 00	1, 000.00	0, 00	800.00	200, 00	1, 000, 00	
	Facsimile Machine	set	1.00				80,0%		27, 000. 00	0.00	27, 000, 60	0.00	21,600,00	5, 400. 00	27, 000, 00	
	Radio System (! base + 4 portable	1 1		ı			l		· ·	l l		I				
	receiver)	set	1,00	0,0%	100.0%	0.0%	80,0%	20.0%	41,000.00	0.00	41,000,00	p, 00	32, 800, 60	8, 200, 00	41, 000, 00	
1.012	Electrician	mai	1,00	100.0%	0.0%	0.0%	0.0%	100.0%	421.00	421.00	0.00	a, co	0.00	421.00	421, 00	
MO1015	Telecommunication Fare	min	108, 000, 00	0.0%		0.0%	45.0%		1.00	0.00	108, 000, 00	0.00	48, 600, DO	59, 400, 00	108, 000, 00	
**************************************	Miscellaneous	LS	1.00	5.0%			55.0%		1.00	88.71	975. 82	709. 68	975, 82	798.39	108, 000, 00	1.0%
		1.60	1.00	υ. <u>0</u> 00	20.076	10.00	20, 076	10.00								<u> </u>
					i	l				Eng 711	177 076 001	TAU COI	104 77E and	74 410 90	170 105 01	
	Total Components (%)	-		 	 - -	ļ		 		509. 71 0. 3%	177, 975. 82 99, 3%	709, 68 0, 4%	104, 775, 82 58, 5%	74, 419, 39	179, 195, 21 100, 0%	

Components (%) Unit Rate

month

Miscellaneous covers the costs for cables & wires, maintenance, etc.

509. 71 0. 3% 14. 17

4, 980, 00

0, 4%

58.5% 2,911.82

798, 39 74, 419, 39 41, 5% 2, 068, 18

99, 3% 4, 946, 11

A(2)a	Provision of vehicles (sedan) for the	Enginee	r (Rental incl	luding or	eration	ı & maint	te <u>nance)</u>	<u> </u>					Unit:	1, 00	veh-m	
						υυ	ηit Rate	2				Атог	ınt			·
Item No.	Description	Unit	Quantily		Cor	mponent ((%)		Total			Component (PP)		_	Total	Romarks
1	<u></u> .			Lab.	Mat.	Equip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
	Mazda B2200 double cab (diesel)	month	1.00	0.0%	0.0%	100.0%	85, 0%	15.0%	52, 800, 00	0, 00	0, 00	52, 800. 00	44, 880, 00	7, 920, 00	52, 800. 00	
1.004	Driver	md	34.38	100, 0%	0.0%	0.0%	0.0%	100.0%	368, 00	12, 651, 84	0.00	0, 00	0, 00	12, 651, 84	12, 651. 84	!
M01006	Gasoline	ltr	375.00	0.0%	100.0%	0.0%	65.0%	35,0%	14. 20	0.00	5, 325. 00	O, NO	3, 461, 25	1, 863. 75	5, 325, 00	
	Miscellaneous	LS	1,00	10.0%	55.0%	35.0%	55, 0%	45,0%		70. 78	389, 27		389. 27	318, 50	707, 77	1.0%
	Total]				12, 722, 62	5, 714. 27	53, 047, 72	48, 730, 52	22, 754, 09	71, 484. 61	
	Components (%)			I						17.8%	8.0%	74. 2%	68. 2%	31.8%	100.0%	
	Unit Rate	vehra		1				1		12, 725, 36	5, 715, 50	53, 059, 14	18, 741. 01	22, 758, 99	71, 500, 00	

Miscellaneous covers the cost for ancillaries, maintenance expense, extra overtime, etc.

Bare Monthly Rental Cost = 52,800,00 PP/month

А(2)Ъ	Provision of vehicles (wagon) for the	Enginee	r (Rental incl	uding of	peration	& main	tenance))		_			_linit:	1,00 v	ch·m	
		' I ' - T				U.	nit Kato	3				Λποι	int			
ltem No.	Description	Unit	Quantity		Соп	ponent	(%)		Total			Component (PP)			Total	llemarks
L	1	1		l.ab.	Mat.	Equip.	for.	Local	(PP)	labor	Material	Equipment	Foreign	i.oca i	(PP)	
	Nissan Pathfinder, 4x4	พงกปก	1.00	0.0%	0,0%	100.0%	85.0%	15,0%		0.00	0,00	67, 800. 00	57, 630, 00	10, 170, 00	67, 800.00	
1.004	Driver	md	34, 38	100, 0%	0.0%	0.0%	0.0%	100.0%	368, 00	12, 651, 84	0.00	0, 00	0, 00	12, 651. 84	12, 651, 84	
MO1006	Gasoline	ltr	375.00	0,0%	100.0%	0.0%	65.0%	35.0%	14. 20	0.00	5, 325, 00	0, 00	3, 461. 25	1, 863, 75	5, 325. 00	
	Miscellaneous	LS	1.00	10.0%	55.0%	35, 0%	55.0%	45.0%		85, 78	471, 77	300, 22	471.77	386.00	857, 77	1.0%
	Total									12, 737. 62	5, 796, 77	68, 100, 22	61, 563, 02	25, 071. 59	86, 634, 61	
	Components (%)									14. 7%	6.7%	78. 6%	71.1%	28.9%	100, 0%	
	Unit Rate	vehim		F				[12, 732, 53	5, 791. 46	68, 073, 01	61, 538, 43	25, 061, 57	86, 600, 00	

Miscellaneous covers the cost for ancillarles, maintenance expense, extra overtime, etc.

Bare Monthly Rental Cost = 67,800.00 PF/month

A(2)c	Provision of vehicles (pick-up) for the	Engine	eer (Rental in	cluding	operati	on & mai	ntenano	(a)					- Unit:	1. 0fl v	eh-m	
1						11	nit Rate					Amou	ınt			
Itam No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
	<u> </u>			Lab,	Mat.	Equip.	For.	Local	(PP)	labor	Material	Equipment	Foreign	Local	(PP)	
	Isuzu Pickup 2 door	month	1, 00	0.0%	0.0%	100.0%	85.0%	15, 0%	31, 550, 00	0.00	0.00	31, 550, 00	26, 817, 50	4, 732, 50	31, 550. 00	
L004	Driver	ard	34. 38	100.0%	0.0%	0, 0%	0.0%	100.0%	368, 00	12, 651, 84	0.00	0, 00	0.00	12,651.84	12,651.84	
M01006	Gasoline	ltr	375, 00	0, 0%	100.0%	0.0%	65.0%	35.0%	14, 20	0.00	5, 325, 60	0,00	3, 461, 25	1,863,75	5, 325, 00	
	Miscellaneous	L.S	1.00	LO. 0%	55.0%	35.0%	55.0%	45.0%		49. 53	272. 40	173, 34	272, 40	222. 87	495, 27	1.0%
	Total								I	12, 701. 37	5, 597, 40	31, 723, 34	30, 551, 15	19, 470, 9fi	50, 022. 11	
	Components (%)									25. 4%	11.2%	63, 4%	61.1%	38, 9%	100.0%	
	Unit Rate	veh m								12, 695. 75	5, 594, 92	31,709.32	30, 537, 64	19, 462, 36	50,000.00	

Miscellaneous covers the cost for ancillaries, maintenance expense, extra overtime, etc. Bare Monthly Rental Cost = 31,550,00 PP/month

A(3)	Provision of Testing Equipment, Apparat	us and	Publications										Wnit:	1, 00 1,	. S	
						υ	nit Rate	;				Amou	nt			
Item No.	Description	Unit	Quantity		Coa	nponent	(%)		Total			Component (PP)			Total	Remarks
		L		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	<u>Rquipment</u>	Foreign	Local	(PP)	
	Testing equipment & apparatus for soil & aggregates	Ł. S.	1, 00	0.0%	100,0%	0.0%	70.0%	30.0%	318, 000, 00	0.00	318, 000, 00	0.00	222, 600, 00	95, 400, 00	318, 000. 00	
	Testing equipment & apparatus for concrete	L, S,	1. 00	0.0%;	100,0%	0,0%	75.0%	25.0%	447, 000. 00	0.00	447, 000, 80	0.00	335, 250. 00	111, 750, 00	447, 000. 00	
	Testing equipment & apparatus for bituminous materials	L.S.	1.00	0.0%	100.0%	0, 0%	70, 0%	30.0%	250, 000, 00	0, 00	250, 000. 00	0, 00	175, 000, 00	75, 000. 00	250, 000, 00	
	Publication	1 S.	1,00	0.0%	100.0%	0.0%	100,0%	0, 0%	20, 700. 00	0, 00	20, 700, 00	0.00	20, 700, 00	0.00	20, 700, 00	
	Miscellaneous	LS	1.00	15.0%	15.0%	70.0%	45, 0%	55, 0%		776. 78	776. 78	3, 624. 95	2, 330, 33	2, 848. 18	5, 178, 50	0.5%
	Total	<u> </u>								776, 78	1, 036, 476. 78	3, 624, 95	755, 880, 33	284, 998. 18	1,040,878,50	
	Components (%)					L				0.1%	99, 6%	0.3%	72.6%	27. 4%	100.0%	
	Unit Mate	L.S.								776, 12	1, 035, 601, 99	3, 621, 89	755, 242, 36	284, 757, 64	1, 040, 000, 00	

Miscellaneous covers the costs for delivery, installation, etc.

2002/11/5

A(4)	Progress Photographs												Unit:	100,00 e	each	
							nit Kate	9				Атног	mt			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	_l'or.	Local	(PP)	Labor	Materia!	Eguipment	Foreign	Local	(PP)	
1.019	Skilled Labor	md	1.00	100, 0%	0.0%	0, 0%	0.0%	100, 0%	403.00	403, 00	0.00	0.00	0.00	403, 00	403.00	
Misioi	Film ASA 400 x 36	each	11. 11	0, 0%	100.0%	0.0%	70.0%	30.0%	169.00	0.00	1,877.59	0.00	1, 314, 31	563, 28	1, 877, 69	Loss 300,0%
M15102	Film Development	each	11, 11	0.0%	100.0%	0,0%	15.0%	85.0%	45.00	0.00	499, 95	0.00	74, 99	124, 96	499, 95	Loss 300,0%
M15103	Picture Prints	each	I, 400.00	0,0%	100.0%	0.0%	15.0%	85.0%	6, 00	0. 00	8, 400, 00		1, 260. 00	7, 140, 00	8, 400.00	Loss 300, 0%
L	Miscellaneous	LS	1.00	0.0%	90.0%	10,0%	55.0%	45.0%		0, 00	503.12	55, 90	307.46	251.56	559, 03	5. 0%
	Total									403, 00	11, 280, 66	55, 90	2, 956, 77	8, 782, 80	11, 739, 57	
	Components (%)									3. 4%	96, 1%	0.5%	25, 2%	74. 8%	100.0%	
	Unit Rate	each								4.02	112, 43	0, 56	29, 47	87.53	117.00	

Miscellaneous covers the cost for album, glue, scissors, etc.

Number of copies to be submitted = 10

Part C Earthwork	
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100(t)	Clearing and Grubbing												Unit	1,00 h	8	
						U	nit Rate					Amou	nt			
ltem No.	Description	Unit	Quantity		Cor	iponent	(%)		Total			Component (PP)			Total	Remarks
	<u> </u>	1 1		Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	l.ocal	(PP)	
W0001	Grass Cutting	m2	10, 000, 00	90.9%	0.9%	8, 2%	4.5%	95. 5%	1, 09	9, 909, 09	99. 09	891.82	195. 45	10, 404. 55	10, 900, 00	
W0002	Tree Cutting	m2	1,000.00	92.6%	0.7%	6,7%	3.7%	96, 3%	0.91	845, 37		60, 87	33, 81	879. 19	913, 00	
W0003	Grubbing	m2	1, 000, 00	4, 0%	7.9%	88, 1%	53.0%	47.0%	24. 90	996, 74		21, 927. 85	13, 208, 68	11,691.32	24, 900, 00	
W0004	Burning		1,000.00	100.0%	0.0%	0.0%	0.0%	100.0%	1, 90]	1,900.00]	0.00	0, 00	0, 00	1, 900, 00	1, 900, 00	1
	Miscellaneous	LS	1.00							0,00	0, 00	0.00	0, 00	0.00	0.00	0.0%
	Total									13, 651. 20	2, 081, 26	22, 880, 53	13, 737, 95	24, 875, 05	38, 613, 00	
<u> </u>	Components (%)									35. 4%		59, 3%	35, 6%	64. 4%	100, 0%	
	Unit Rate	ha								13, 646. 61	2, 080, 56	22, 872, 83	13, 733, 33	24, 866, 67	38, 600, 00	

700(3)	Individual Removal of Trees, small	(150mm≤ ø	< 900mm}										Unit	30.00	each	
						l	Init Rat	е				Amo	unt			
ltem No.	Description	linit	Quantily		Con	nponent	(%)		Total			Companent (PP)			Total	Remarks
	<u> </u>			_t.ab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	l.oca]	(PP)	
L002	Foreman	md	0, 88	100.0%	0.0%	0.0%	0.0%	100.0%		498.08	0.00	0.00	0.00	198.08	498, 08	
L019	Skilled Labor	md	1.65	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	664. 95	0,00	0.00	0.00	664, 95	664.95	
L020	Unskilled Labor	l md	3. 26	100.0%	0,0%	8.0%	0.0%	100.0%	314,00	1,023.64	0.00	0.00	0.00	1, 023, 64	1, 623, 64	Į.
1.020	Unskilled Cabor	md	0.82	100,0%	0.0%	0.0%	0,0%	100.0%	314.00	257, 48	0, 00	0.00	0, 00	257, 48	257.48	
_	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	55.0%	45.0%		0.00	19, 55	175. 98	107. 54	87.99	195, 53	8.0%
	Total									<u>2, 441. 1</u> 5	19. 55	175, 98	_107. 54	2, 532, 14	2, 639, 68	
	Companents (%)									92.6%	0.7%	6. 7%	4. 1%	95, 9%	100,0%	
	Unit Rate	each								81.48	0. 65	5. 87	3, 59	84. 41	88, 00	

Miscellaneous covers the cost for chain saw, ax, etc.

100 (4)	Individual Removal of Trees, large (<u>⊅ > 900m</u> n	ı)										Unit:	25, 00 r	each	
						<u></u>	Init Rate						unt			
Item No.	Description	Unit	Quantity		Cos	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	foreign	1.oca1	(PP)	
1.002	Foreman	md	1.01	100.0%	0.0%	0.0%	0.0%	100.0%	566, 00	571.66	0.00	0.00	0.00	57L.66	571. 66	
1.019	Skilled Labor	l md	2. 13	100,0%	0.0%	0.0%	0.0%	100.0%	403.00	858. 39	0.40	U. 00	0. 00	858. 39	858, 39	
1.020	Unskilled Labor	nd	3. 53	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	1, 108, 42	0, 00	0.00	0.00]	1, 108, 42	1, 108, 42	
L020	llnskilled Labor	nd	0, 82	100,0%	0.0%	0.0%	0.0%	100.0%	314, 00	257. 48	0. 00	Ø. 00	0.00	257. 48	257, 48	
	Wiscellaneous	LS	1, 00	0.0%	10.0%	90 <u>, U%</u>	55.0%	45.0%		0.00	22, 37	201. 31	123, 02		223.68	8.0%
	Total	\perp								2, 795. 95	22. 37	201.31	123. 02	2, 896, 60	3, 019, 63	
	Components (%)									92.6%	0. 7%	6. 7%	4. 1%	95, 9%	100.0%	
1	Unit Pate	lasch								112 041	0.00	9 07	4 031	116 07	191.00	

Unit Rate | oach | Miscellaneous covers the cost for chain saw, ax, etc.

101(1)	Removal of Structures and Obstructions	i											tini t:	1.00 1	S.	
						<u> </u>	nil Rate					Amou	int			
I tem No.	Description	Unit	Quantity		Cox	mponent	(%)		Total			Component (PP)			Total	Remarks
				Lab	Mat.	Equip.	For.	Loca)	(99)	i.abor	Material	Equipment	Foreign	Local	(PP)	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	131.3	11,6%	li. 3%	82.0%	48, 7%	51.3%	624.00	9, 525, 61	5, 202. 54	67, 203. 05	39, 872, 67	42, 058, 53	81, 931, 20	
W0025	Disposal of Demolished Debris	m3	131.3	16.2%	12.9%	70.9%	46.9%	53. t%	137, 00	2, 922, 68	2, 318, 66	12, 746, 76	8, 432, 30	9, 555, 80	17, 988, 10	
Ĺ	Miscellaneous	LS	1.0	0.0%	15, 0%	85 <u>. 0%</u>	55.0%	45.0%	i	0.00	t, 498. 79	8, 493. 14	5, 195. 56	4, 496. 37	9, 991, 93	10.0%
	Total									12, 448, 29	9,019.99	88, 442, 94	53, 800, 54	56, 110, 69	109, 911, 23	
	Components (%)									11,3%	8, 2%	80.5%	48.9%	51.1%	100.0%	
	Unit Rate	l. S.								12, 458, 35	9, 027, 28	88, 514, 37	53, 843, 99	56, 156, 01	110, 000, 00	

Miscellaneous covers the cost for earthworks, clearing, etc.

101(2) ₈	Removal of Existing Podestrian Bridge	(San Jo	se, at Bridge	NO. 27					··					L, 00 ca		
		1					hit Rate					Алана	t			
ltem No.	Description	Unit	Quantity				<u>(%)</u>		Total			Component (PP)			Total	Kemarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0012	Demolition by Crawler Drill (Heavily Reinforced Structures)	m3	44, 80	12.5%	7. 5%	80, 0%	48. 2%	51.8%	1, 280. 00	7,,173, 19	4, 316, 52	45, 854. 29	27, 627, 18	29, 716, 82	57, 344. 00	
W0025	Disposal of Demolished Debris	m3	44, 80	16.2%	12.9%	70.9%	46, 9%	53, 1%	137.00	997, 23	791, 14	4, 349. 24	2, 877, 13	3, 260, 47	6, 137, 60	
	Miscellaneous	LS	1.00	0.0%	15, 0%	85, 0%	55.0%	45.0%		0.00	476. 11	2, 697, 97	1, 745, 74	1, 428, 34	3, 174, 08	5. 0%
	Total	1	-,				-			8, 170, 42	5, 583, 77	52, 901, 50	32, 250, 05	34, 405, 63	66, 655, 68	
	Components (%)	 								12.3%	8, 4%	79.4%	18, 4%	51.6%	100.0%	
	Unit Rate	each								8, 175, 85	5, 587, 48	52, 936, 67	32, 271, 49	34, 428, 51	66, 700, 00	
	Miscellaneous covers the cost for clear		tru garthundle							<u> </u>	0,001,401	55,555,57	02,2111.0	34 1001 931	5-11, 100, 00	
*** (***			·	gic.									Dodge	1 00	,	
101 (2) ь	Removal of Existing Bridge (Plaridel a	t Bride	e No. 9)							<u>-</u>			Unit:	1,00 ea	сп	
	1	1					Init Rate	·		·		Amoun	l .			
ltem No.	Description	Unit	Quantity			iponent			Total			Companent (PP)			Total	Remarks
				Lab.	Mat.	£զնip.	For,	Local	(99)	Laber	Material	Equipment	Poreign	Local	(PP)	
₩0312	Demolition by Crawler Oritl (Meavily Reinforced Structures)	m3	68, 26	12, 5%	7,5%	80.0%	48.2%	51.8%	1, 280, 00	10, 927. 90	6, 575, 95	69, 856. 15	42, 088. 28	45, 271, 72	87, 360, 00	
W0025	Disposal of Demolished Debris	m3	68. 25	16, 2%	12.9%	70.9%	46.9%	53.1%	137, 00	1, 519, 22	1, 205, 25	6, 625, 79	4, 383, 13	4, 967, 12	9, 350, 25	
	Miscellaneous	LS	1.80			85.0%	55, 0%	45.0%	•	0.00	725, 33	4, 110, 19	2,659,53	2, 175, 98	4, 835, 51	5, 0%
		+				1				12, 447, 12	8, 506, 52	80, 592, 12	49, 130, 94	52, 414, 82	101, 545, 76	
	Total															_
	Total Companents (%)				1	 	t			12.3%	શ તથાં	79.4%	48.4%	51 6%	100.0%1	
	Total Components (%) Unit Rate Miscellaneous covers the cost for clear	each ing, ex		etr.						12. 3% 12, 502. 80	8. 4% 8, 544. 57	79. 4% 80, 952. 63	48, 4% 49, 350, 71	51, 6% 52, 649, 29	100, 0% 102, 000, 00	
101(3)a	Companents (%) Unit Rate			etr.			Lit Bat					80, 952. 63	49,350,71 Unit:		102, 000, 00	
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement	ing, ex	tra earthworks,	etr.			Juit Rat	2	Total		8, 544. 57	80, 952. 63 Amoun	49,350,71 Unit:	52, 649, 29	102, 900. 00	Pomarko
101(3)a	Components (%) Unit Rate Miscellaneous covers the cost for clear					mponent	(%)		Total (m)	12, 502, 80	8, 544. 57	Amoun	49,350,71 Unit:	52, 649. 29 10. 00. m2	102, 000. 00	Remarks
Item No.	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description	ing, ex	tra earthworks, Quantity	Lab,	Mat.	mponent Eguip.	(%) For.	Local	(PP)	12, 502, 80	8,544.57	80,952.63 Amoun Component (PP)	49, 350, 71 Unit: st Foreign	52, 649, 29 10, 00 m2 Local	Total (PP)	Remarks
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demolition of PCC Pavement by Crawler	ing, ex	tra earthworks,	Lab,	Mat.	mponent Eguip.	(%) For.	Local		12, 502, 80	8, 544. 57	Amoun	49,350,71 Unit:	52, 649. 29 10. 00. m2	102, 000. 00	Remarks
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler (Drill	ling, ex linit m2	tra earthworks, Quantity 10.00	Lab, 3. 4%	Mat. 6,5%	eguip. 90.1%	(%) For. 53. 2%	Local 46, 8%	(PP) 56, 50	12, 592, 80	8,544.57} Material 36,57	Amoun Cumponent (PP) Equipment 509. 27	49, 350, 71 Unit: st Foreign 300, 59	52, 649, 29 10, 00 a2 Local 264, 41	Total (PP) 565, 00	Remarks
Item No.	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Drill Disposal of Demalished Debris	ling, ex linit m2 m3	Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5%	ponent Equip. 90.1%	(%) For. 53. 2%	Local 46, 8%	(PP)	Labor 19, 16 55, 65	8,544.57} Material 36,57 44.15	80, 952. 63 Amoun Component (PP) Equipment 509. 27 242. 70	49, 350, 71 Unit: Foreign 300, 59 160, 55	52, 649, 29 10, 00 m2 Local 264, 41 181, 95	Total (PP) 565, 00 342, 50	
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Drill Disposal of Demalished Debris Miscellaneous	ling, ex linit m2	tra earthworks, Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5%	eguip. 90.1%	(%) For. 53. 2%	Local 46, 8%	(PP) 56, 50	12, 592, 80 Labor 19, 16 55, 65 0, 00	8,544.57} Material 36,57 44.15 0.00	Amoun Component (P) Equipment 509. 27 242, 70 8, 00	49, 350, 71 Unit: t. Foreign 300, 59 160, 55 0.00	52, 649. 29 10. 00 m2 Local 264. 41 181. 95 0. 00	Total (PP) 565, 00 342, 50 0, 00	Remarks
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demolition of PCC Pavement by Crawler (Drill Disposal of Demolished Debris Miscellaneous Total	ling, ex linit m2 m3	Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5%	eguip. 90.1%	(%) For. 53. 2%	Local 46, 8%	(PP) 56, 50	12, 502, 80 Labor 19, 16 55, 65 0, 00 74, 81	8,544.57} Material 36,57 44,15 0.00 80,72	80, 952. 63 Amoun Component (PP) Equipment 509. 27 242. 70 0. 00 751. 97	49, 350, 71 Unit: 51 Foreign 300, 59 160, 55 9, 00 461, 15	52, 649, 29 10, 00 a2 Local 264, 41 181, 95 0, 00 446, 35	Total (PP) 565, 00 342, 50 0, 00 907, 50	
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavament Description Demolition of PCC Pavament by Crawler Drill Disposal of Demolished Debris Miscellaneous Total Components (%)	ling, ex linit m2 m3 LS	Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5%	eguip. 90.1%	(%) For. 53. 2%	Local 46, 8%	(PP) 56, 50	Labor 19, 16 55, 65 0, 00 74, 81 8, 28	8,544.57} Material 36,57 44.15 0.00 80,72 8,9%	Amoun Component (PP) Equipment 509. 27 242. 70 8. 00 751. 97 82. 98	19, 350, 71 Unit: Foreign 300, 59 160, 55 9, 00 461, 15 50, 88	52, 649, 29 10, 00 m2 Local 264, 41 181, 95 0, 00 446, 35 49, 28	Total (PP) 565, 00 342, 50 0, 907, 50 100, 0%	
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demolition of PCC Pavement by Crawler (Drill Disposal of Demolished Debris Miscellaneous Total	ling, ex linit m2 m3	Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5%	eguip. 90.1%	(%) For. 53. 2%	Local 46, 8%	(PP) 56, 50	12, 502, 80 Labor 19, 16 55, 65 0, 00 74, 81	8,544.57} Material 36,57 44,15 0.00 80,72	80, 952. 63 Amoun Component (PP) Equipment 509. 27 242. 70 0. 00 751. 97	49, 350, 71 Unit: 51 Foreign 300, 59 160, 55 9, 00 461, 15	52, 649, 29 10, 00 a2 Local 264, 41 181, 95 0, 00 446, 35	Total (PP) 565, 00 342, 50 0, 00 907, 50	
	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavament Description Demolition of PCC Pavament by Crawler Drill Disposal of Demolished Debris Miscellaneous Total Components (%)	ling, ex linit m2 m3 LS	Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5%	90.1% 70.9%	(%) For. 53, 2% 46, 9%	Local 46, 8% 53, 1%	(PP) 56, 50	Labor 19, 16 55, 65 0, 00 74, 81 8, 28	8,544.57} Material 36,57 44.15 0.00 80,72 8,9%	Amoun Component (PP) Equipment 509. 27 242. 70 9. 00 751. 97 32. 9% 75, 24	19, 350, 71 Unit: Foreign 300, 59 160, 55 0, 00 461, 15 50, 88 46, 14 Unit:	52, 649, 29 10, 00 m2 Local 264, 41 181, 95 0, 00 446, 35 49, 28	Total (PP) 565, 00 342, 50 0, 00 907, 50 100, 08	
I tem No. #0015 #0025	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Drill Disposal of Demalished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement	ling, ex	Quantity 10,00 2,50 1,00	Lab, 3. 4% 16, 2%	Mat. 6,5% 12.9%	90.1% 70.9%	(%) For. 53, 2% 46, 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00	Labor 19, 16 55, 65 0, 00 74, 81 8, 28	8,544.57} Material 36,57 44.15 0.00 80,72 8,9%	### Amount Component (PP) Equipment 509, 27 242, 70 0,00 751, 97 82,9% 75, 24 ##################################	19, 350, 71 Unit: Foreign 300, 59 160, 55 0, 00 461, 15 50, 88 46, 14 Unit:	52, 649, 29 10, 00, a2 Local 264, 41 181, 95 0, 00 446, 35 49, 28 44, 66	Total (PP) 565.00 342.50 0.00 907.50 100.0%	0.0%
Item No. W0015 W0025	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demolition of PCC Pavement by Crawler Drill Disposal of Demolished Debris Miscellaneous Total Components (%) Unit Rate	ling, ex linit m2 m3 LS	Quantity 10.00	Lab, 3. 4% 16, 2%	Mat. 6,5% 12.9%	mponent Equip. 90.1% 70.9%	(%) For. 53, 2% 46, 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00	Labor 19, 16 55, 65 0, 00 74, 81 8, 28 7, 48	8,544.57 Material 36,57 44,15 0.00 80,72 8,9% 8,08	## Amoun Component (PP)	49, 350, 71 Unit: 51 Foreign 300, 59 160, 55 9, 00 461, 15 50, 8% 46, 14 Unit:	52, 649, 29 10, 00 a2 Local 264, 41 181, 95 0, 00 445, 35 49, 23 44, 66 10, 00 a2	Total (PP) 565.00 342.50 0.00 907.50 109.0% 90.80	
Item No. #0015 #0025 LO1(3) h Item No.	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Driposal of Demalished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement Description	ling, ex	Quantity 10,00 2,50 1,00	Lab, 3. 4% 16, 2%	Mat. 6,5% 12.9%	mponent Equip. 90.1% 70.9% mponent Equip.	(%) For. 53. 2% 46, 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00 Total (PP)	Labor 19, 16 55, 65 0, 00 74, 81 8, 28	8,544.57} Material 36,57 44.15 0.00 80,72 8,9%	### Amoun Component (PP) Equipment 509.27 242.70 6.00 751.97 82.9% 75.24	#9, 350, 71 Shit:	52, 649, 29 10, 00, a2 Local 264, 41 181, 95 0, 00 446, 35 49, 28 44, 66	Total (PP) 565, 00 342, 50 9. 00 907, 50 100, 0% 90, 80	0.0%
Item No. W0015 W0025 W0025	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Drill Disposal of Demalished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement Description Execuation of Gravel Pavement	ling, ex	Quantity 10,00 2,50 1,00	Lab. 3. 4% 16. 2% Lab. 4. 4%	6, 5% 12, 9% Co Mat. 8, 4%	mponent Equip. 90. 1% 70. 9%	(%) For. 53. 2% 46. 9% enit Rat (%) For. 52. 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00 Total (PP) 10, 30	Labor 19, 16 55, 65 0, 00 74, 81 8, 28 7, 48	8,544.57 Material 36,57 44,15 0.00 80,72 8,9% 8,08	### Amoun Component (PP)	49, 350, 71 Unit: Foreign 300, 59 160, 55 9, 00 461, 15 50, 83 46, 14 Unit: Foreign 13, 62	52, 649, 29 10, 00 a2 Local 264, 41 181, 95 0, 00 445, 35 49, 23 44, 66 10, 00 a2	Total (PP) 565.00 342.50 0.00 907.50 109.0% 90.80	0.0%
Item No. #0015 #0025 LO1(3) h Item No.	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Driposal of Demalished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement Description	Unit m2 m3 LS	Quantity 10.00 2.50 1.00	Lab, 3. 4% 16. 2%	6, 5% 12, 9% Co Mat. 8, 4%	mponent Equip. 90. 1% 70. 9%	(%) For. 53. 2% 46. 9% enit Rat (%) For. 52. 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00 Total (PP)	12, 592, 80 Labor 19, 16 55, 65 0, 00 74, 81 8, 28 7, 48	8,544.57 Material 36.57 44.15 0.00 80.72 8.9% 8.08	### Amoun Component (PP) Equipment 509.27 242.70 6.00 751.97 82.9% 75.24	49, 350, 71 Unit: 11 Foreign 300, 59 160, 55 9, 00 461, 15 50, 8% 46, 14 Unit: 13. 62 160, 55; 160, 55	52, 649, 29 10, 00 m2 Local 264, 41 181, 95 0, 00 446, 35 49, 2% 44, 66 10, 00 m2	Total (PP) 565, 00 342, 50 9. 00 907, 50 100, 0% 90, 80	0.0%
Item No. W0015 W0025 W0025	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Drill Disposal of Demalished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement Description Execuation of Gravel Pavement	ling, ex linit m2 m3 LS m2 Unit m3	Quantity 10.00 2.50 1.00 Quantity	Lab. 3. 4% 16. 2% Lab. 4. 4%	6, 5% 12, 9% Co Mat. 8, 4%	mponent Equip. 90. 1% 70. 9%	(%) For. 53. 2% 46. 9% enit Rat (%) For. 52. 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00 Total (PP) 10, 30	Labor 19, 16 55, 65 0, 00 74, 81 8, 28 7, 48	8,544.57 Material 36.57 44.15 0.00 80.72 8.9% 8.08	### Amoun Component (PP)	#9, 350, 71 Shit: St.	52, 649, 29 10, 00, a2 Local 264, 41 181, 95 0, 00 446, 35 49, 28 44, 66 10, 00, m2	Total (PP) 565.00 342.50 0.00 907.50 100.0% 90.80	0.0%
Item No. W0015 W0025 W0025	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demalition of PCC Pavement by Crawler Drill Disposal of Demalished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement Description Excavation of Gravel Pavement Disposal of Demalished Debris	ling, ex linit m2 m3 l.S m2 Unit m3 m3	Quantity Quantity Quantity Quantity 2.50 Quantity 2.50 2.50	Lab. 3. 4% 16. 2% Lab. 4. 4%	6, 5% 12, 9% Co Mat. 8, 4%	mponent Equip. 90. 1% 70. 9%	(%) For. 53. 2% 46. 9% enit Rat (%) For. 52. 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00 Total (PP) 10, 30	Labor 19, 16 55, 65 0, 00 74, 81 8, 28 7, 48 Labor 1, 13 55, 65	8,544.57} Material 36,57 44.15 0.00 80,72 8,9% 8.08 Material 2.16 44.15 0.00	## Amoun Component (PP)	#9, 350, 71 Shit: St.	52, 649, 29 10, 00 m2 Local 264, 41 181, 95 0, 00 446, 35 49, 28 44, 66 10, 00 m2 Local 12, 13 181, 95	Total (PP) 565, 00 342, 50 907, 50 100, 0% 90, 80 Total (PP) 25, 75 342, 50	C. O%
Item No. W0015 W0025 W0025	Components (%) Unit Rate Miscellaneous covers the cost for clear Removal of Existing PCC Pavement Description Demolition of PCC Pavement by Crawler Drill Disposal of Dewolished Debris Miscellaneous Total Components (%) Unit Rate Removal of Existing Gravel Pavement Description Excavation of Gravel Pavement Disposal of Demolished Debris Miscellaneous	ling, ex linit m2 m3 l.S m2 Unit m3 m3	Quantity Quantity Quantity Quantity 2.50 Quantity 2.50 2.50	Lab. 3. 4% 16. 2% Lab. 4. 4%	6, 5% 12, 9% Co Mat. 8, 4%	mponent Equip. 90. 1% 70. 9%	(%) For. 53. 2% 46. 9% enit Rat (%) For. 52. 9%	Local 46, 8% 53, 1%	(PP) 56, 50 137, 00 Total (PP) 10, 30	Labor 19, 16 55, 65 0, 00 74, 81 8, 28 7, 48 Labor 1, 13 55, 65 0, 00 00 00 00	Material 36, 57 44, 15 0.00 80, 72 8, 9% 8, 08 Material 2, 16 44, 15	## Amount Component (PP) Equipment 509.27 242.70 6.00 751.97 82.9% 75.24	49, 350, 71 Unit: 11 Foreign 300, 59 160, 55 9, 00 461, 15 50, 8% 46, 14 Unit: 13. 62 160, 55; 160, 55	52, 649, 29 10, 00 m2 Local 264, 41 181, 95 0, 00 446, 35 49, 2% 44, 66 10, 00 m2 Local 12, 13 181, 95 0, 00	Total (PP) Total (PP) 565, 00 342, 50 0, 00 907, 50 100, 0% 90, 80 Total (PP) 25, 75 342, 50 0, 00 0, 00 0, 00	C. O%

10i (4) a	Removal of Existing Fence (Net Fence wi	th Bar	bed Wire and W	ooden Pe	osts)								<u>Unit:</u>	100, 00	П	
		1				1)	n <u>it Rat</u>	e				Amoi	int			
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	_Mat.	Equip.	For.	l.ocal	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
	Foreman	md	0, 50	100, 0%	0.0%	0.0%	0.0%	100.0%		283, 00	0.00	0,00	0.00	283,00	283.00	
	Welder	nd	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	500, 60	500.00	n, oo	0, 00	0, 00	500.00	500, 00	
	Unskilled Labor	nd l	1, 50	100, 0%	0.0%	0.0%	0.0%	100.0%	314.00	471,00	0.00	0.00	0.00	471,00	471.00	
W0025	Disposal of Demolished Debris	m3	4. 32	16.2%	12.9%	70.9%	46.9%	53.1%	137, 80	96.16	76, 29	419.39	277. 44	314. 40	591.84	
	Miscellaneous	LS	1.00							0, 90	0.00	0.00	0.00	0, 00	18. 46	1.0%
	Total									1, 350, 16	76, 29	419, 39	277. 44	1, 568, 40	1, 864. 30	
Ĺ	Communents (%)									72. 4%	4. 1%	22.5%	14, 9%	84. L%	100,0%	
<u>L</u>	Unit Rate	<u></u>		[<u> </u>		13, 47	0. 76	4, 18	2. 77	15, 65	18.60	

Removal of Existing Podestrian Bridge (San Jose, at Bridge No. 2)

101(2)a

Unit:

1,00 each

101 (4) b	Removal of Existing Fence (Net Fence #	ith Bar	bed Wire <u>and C</u>	Concrete	Posts)								Unit:	100, 00 m		
							hit Rat	3				Amou	nt			
ltem No.	Description	Unit	Quantity		Co	mponent	(%)		Total			Component (PP)			Total	Remarks
ł				Lab.	Mat.	Equip.	For.	Local	(PP)[Labor	Material	Equipment	Foreign	Local	(Pľ <u>)</u>	
1.002	Foreman	md	0, 50	100, 0%	0, 0%	0,0%	0.0%	100.0%	566.00	283, 00	0, 00	0, 00	0.00	283. 00	283, 00	
1.009	Welder	md	1,00	100.0%	0.0%	0.0%	0.0%	100, 0%	500, 00	500, 00	0.00	0.00	8,00	500, 00	500, 00	
1.020	Unskilled Labor	πd	1. 50	100, 0%	0.0%	0.0%	0,0%	100,0%	314.00	471.00	0, 80	Ð. 00	0, 00	471.00	471, 00	
R0204-020	Pneumatic Breaker, Handhold	day	0,09	0.0%	0.0%	100.0%	54.3%	45.7%	467.00	0, 00	0.60	41. 13	22, 33	18,80	41.13	
W0025	Disposal of Demolished Debris	m3	5. 76	16.2%	12,9%	70, 9%	46, 9%	53, 1%	137.00	128. 22	101.72	559, 19	369, 92	419. 20	789, 12	
!	Miscellancous	I.S	1,00	0.0%	20,0%	80.0%	55.0%	45.0%	1	0.40	4, 17	16. 67	11,46	9, 38	20, 84	1.0%
	Total	T								1, 382, 22	105. 89	616, 99	403, 71	1, 701, 38	2, 105, 09	
	Components (%)									65. 7%	5, 0%	29. 3%	19, 2%	80, 8%	100.0%	
	Unit Rate	T				1				13.85	1, 06	6, 18	4.05	17. 05	21.10	

Miscellaneous covers the cost for wire cutter, acetylene gas, etc.

10 <u>1 (4) c</u>	Removal of Existing Fence (Concrete H	illow Bl	lock)				_						Unit:	100,00 m		
						· · · · · · · · · · · · · · · · · · ·	nit Rate	9				Amout	nt			
Item No.	Description	Unit	Quantity		<u>C</u> 0	mponent.	(%)	7	Total			Component (PP)			Total	Remarks
				Lab.	Mat_	Equip.	For.	Local	(PP)	l.ahor	Material	Equipment	Foreign	Local	(P <u>P)</u>	
L002	Foreman	md.	1, 30	100.0%	0.0%	0.0%	0,0%	100, 0%	566, 00	735. 80	0, 00	0.00	0,00	735. 80	735, 80	
L019	Skilled Labor	md	4, 86	100,0%	0.0%	0.0%	0,0%	100.0%	403.00	1, 958. 58	0,00	0.00	0, 00	1, 958, 58	1, 958. 58	
1.020	Unskilled Labor	nd	3, 32	100,0%	0.0%	0.0%	0.0%	100.0%	314.00	1,042.48	0.00	0, 00	0, 60	1, 042, 48	1, 042, 48	
R0204-020	Pneumatic Breaker, Handhold	day	3, 40	0.0%	0.0%	100.0%	54, 3%	45, 7%	457, 00	0.00	0,00	1, 553, 80	843. fil	710, 19	1, 553, 80	
W0025	Disposal of Demolished Debris	n3	27,00	16, 2%	12.9%	70,9%	46, 9%	53.1%	137. 00	601, 01}	47fi, 80)	2, 621. 19)	1, 733. 98)	1, 965, 02	3, 699, 00	
l	Miscellaneous	I.S	1,00			1			1	0,00	0.00	0.00	0, 00	0.00	O. 00	n. o <u>%</u>
	Total									4, 337. 87	476, 80	4, 174, 99	2, 577. 60	6, 412, 06	<u>8,</u> 989, 66	
	Components (%)									48, 3%	5.3%	46, 4%	28. 7%	71.3%	_ 100.0%	
	Unit Rate									43. 38	4, 77	41. 75	25. 78	64, 12	89, 90	

101 (5) a	Removal of Existing Guardrails												Unit:	100, 0ft m		
<u></u>						U	nit Kat	e					nt			
Item No.	Description	Unit	Quantity		Col	mponent	(%)		Total			Component (PP)			Total	Remarks
	<u> </u>			Lab.	Mat.	Equip.	For.	Local	(PP)	Labor_	Materi <u>a</u> l	Equipment	Foreign	Local	(PP)	
1.020	Unskilled Labor	mď	8, 70	100.0%	0.0%	0.0%	0, 0%	180.0%	314, 00	2, 731. 80	0, 00	0,00	0.00	2, 731, 80	2,731.80	
R0601-006	Dump Truck, 6.0-9.(Leu-yds (4.6-6.9m3)	hr	2. 25	10.0%	17.9%	72, 1%	50, 8%	19. 2%	603.00	135, 68	242, 86	978. 22	688, 93	667. 82	1, 356. 75	
	Miscel Laneous	LS	1.00	0.0%	20.0%	80.0%	55.0%	45.0%		0.00	16. 35	65, 42	44. 97	36, 80	81, 77	2.0%
	Total									2, 867, 48	259, 21	1,043.63	733. 90	3, 436, 42	<u>4, 170. 32</u>	
	Components (%)	1		<u>i</u> .]		1		68, 8%	6. 2%	25. 0%	<u>17</u> , 6%	82. 4%	100, 0%	
Γ	Unit Rate	_ m_						1 1		28. 67	2, 59	10, 44	7.34	34, 36	41.70	

Miscellaneous covers the cost for minor tools such as hammer, shovels, earts, etc.

101 (5) h	Relocation of Existing Guardrails												<u>Unit:</u>	100, 00 m	·	
							nit Kate					Λmou	nl			
Item No.	Description	Unit	Quantity		Cor	nponen t	(%)		Total			Component (PP)			Total	Remarks
	<u> </u>			Lab.	Mat.	Equip.	For.	Loce 1	(PP)	Labor	Material	Cquipment .	Foreign	Logal	(PP)	
L020	Unskilled Lahor	md	37. 70	100.0%	0,0%	B, 0%	0,0%	100.0%	314.00	11, 837, 80	0, 00	0.00	0.00	11, 937, 80	11, 837, 80	
<u> </u>	Miscellaneous	LS	1.00	0.0%	60.0%	40.0%	55.0%	45, 0%		8,00	_355. 13	236, 76	325, 54	266. 35	591, 89	5. 0 <u>%</u>
	Total	\perp		l						11, 837. 80	355, 13	236, 76	325. 54	12, 104, 15	12, 429, 69	
	Components (%)				J					95. 2%	2. 9%	1. 9%	2.6%	97.4%	100.0%	
	Unit Rate	18			I					118. 10	3. 54	2. 36	3. 25	120, 75	124. 00	
	Miscellaneous covers the cost for miss	ing Cixtu	res, minor too	ls such	as h <i>e</i> mmi	er, shove	els, car	ts, etc.								

101 (7) 10,00 m3 Removal of Existing Slape Protection Unit: Unit Rate Amount Item No. Description Unit Quantity Component (%) Total Component (PP) Total Remarks Lab, Mat, Equip, For. Local Labor_ Material Equipment Poreign Local (PP) Demolition by Crawler Drill (Lightly W0011 m3 48.7% 51.3% 725, 48 3, 203, 24 10.00 11,6% 6, 3% 82.0% 624, 00 396, 23 5, 118, 28 3, 036, 76 6, 240, 00 Reinforced Structures) W0025 Disposal of Demolished Debris 10, 80 16, 2% 12.9% 70.9% 46, 9% 53, 1% 137, 00 222, 60 176, 59 970. 8L 642.22 727, 78 1, 370, 00 1.00 10,0% 3.81 951.89 34, 25 Miscellancous 95.0% 55.0% 45.0% 7. 61 64.69 41.86 76.10 1.0% 7, 686. 10 Total 580, 44 6, 153, 78 3, 720, 83 3, 965, 27 Components (%) 12.4% 80.1% 48, 4% 51.6% 100, 0% 769, 00 Unit Rate m3

101(8)	Removal of Existing Slope Protection	(Hand-1	mid Rock)										Unit:	10,00 m	13	
		7				U	nit Kate					Amou	int			· ·
Item No.	Description	∜lnit	Quantity	<u> </u>	Co	mponent i	(%)		Total			Component (PP)			Total	Remarks
	1			l.ab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0105	Excavation, Backhoe 0,61m3	m3	10.00	4.4%	8,4%	87, 2%	52. 9%	47. 1%]	40. 90	18.00	34. 36	356.65	216, 27	192, 73	409, 00	
W0025	Disposal of Demolished Debris	m3	10,00	16.2%	12.9%	70.9%	46.9%	53. 1%	(37, 00	222.60	176, 59	970.81	642. 22	727, 78	1, 370, 00	ļ
	Miscellaneous	1.8	1.00	5.0%	10.0%	85, 0%	56.0%	45.0%		0.89	1, 78	15. 12	9, 78	8, 01	17. 79	1.0%
	Total									241. 48	212. 73	1, 342. 58	868. 27	928. 5 <u>2</u>	1, 796, 79	
	Components (%)			1 1		1 1				13. 4%	11.8%	74.7%	48. 3%	51.7%	100.0%	
	Unit Pote									24 19	21 11	194 50	86 98	ยน กัว	180 081	

Miscellaneous covers the cost for earthworks, clearing, etc. as required.

101 (9)	Removal of Existing Cabion												Unit:	10.00 a	п3	
						l	Init Rate	2				Amou	int			· ·
Itom No.	Description	Unit	Quantity		Con	ponent	(%)		Tota)			Component (PP)			fotal	Remarks
		1		Lab.	Mat.	Equip.	lior.	Local	. (PP)[Labor	Material	Equipment	Foreign	Local	(PP)	
L020	Unskilled Labor	mcl	0, 40	100.0%	0.0%	0.0%	0,0%	100, 0%	314.00	125, 60	0.00	0.00	0, 00	125. 60	125, 60	
W0105	Excavation, Backhoe 0.61m3	m3	10.00	4.4%	8.4%	97. 2%	52.9%	47.1%	40, 90	18.00	34, 36	356.65	216. 27	192, 73	409, 00	1
W0025	Disposal of Demolished Debris	F/3	10,00	16, 2%	12.9%	70.9%	46.9%	53, 1%	137.00	222.60	176, 59	970, 81	642.22	727, 78	1,370.00	1
	Miscellaneous	LS	1,00	0	0	ı		0	<u>i</u> _	0, 95	1.90	16. 19	10. 48	8. 57	19, 05	1.0%
	Total									367. 14	212.85	1, 343, 65	868, 97	1, 054, 68	1, 923. 65	
	Components (%)			I			<u> </u>			19.1%	¥1.1%	69, 8%	45. 2%	54.8%	100.0%	
	Unit Rate	m3					C			36. 64	21. 25	134. 11	86. 73	105. 27	192, 00	

Miscellaneous covers the cost for earthworks, clearing, etc. as required.

						Ur	it Rale					Amoun) L		Ī	<u> </u>
item No.	Description	Unit	Quantity		Com	ponent (%)		Total			Component (PP)			Total	Remarks
		\sqcup	[Lab.	Mat,	Equip.	for.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0011	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	9.00	11.6%	6, 3%	82, 0%	40, 7%	51.3%	624, 00	652.94	356. 61	4, 606, 45	2, 733. 08	2, 882, 92	5, 616, 00	
W0025	Disposal of Demolished Debris	ın3	9.00	16.2%	12.9%	70, 9%	46, 9%	53. 1%	[37, 80]	200. 34	158. 93	873, 73	577.99	655, 111	1, 233, 00	
WO105	Excavation, Backhoe (J. 61m3	m3	525. 46	4. 4%	8.4%	87. 2%	52.9%	47. 1%	40, 90	945. 62	1, 805, 27	18, 740, 42	11, 364, 32	10, 126, 99	21, 491, 31	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	278. 45	8. 1%	14, 8%	77. 1%	51.5%	48, 5%	93, 00	2, 109. 18	3, 820, 38	19, 966, 29	13, 329, 61	12, 566, 24	25, 895, 85	
₩0132	Backfill B	m3 [247, 01	7.7%	10.0%	82. 3%	51.3%	48. 7%	111,00	2, 098. 00	2, 745, 70	22, 574, 41	14, 857, 38	13, 360, 73	27, 418. 11	
W0201	Lean Concrete (17MPa, max agg.38mm)	m3	13, 72	2.7%	78.1%	19.1%	56, 4%	43.6%	1,510.00	566, 92	16, 185, 90	3, 964, 38	11,691.66	9, 025, 54	20, 717, 20	Loss
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13, 45	18.8%	0.2%	81.0%	43, 4%	56. 6%	213.00	538, 50	5, 62	2, 320, 73	1, 243.83	1, 621, 02	2, 864. 85	
W0236	Concrete Curing (plain concrete)	m3	13.45	70.9%	8.7%		16.0%	84.0%	8.85	84. 42	10, 38	24. 23	19, 64	99.99	119, 03	
W0243	Formwork (lean concrete)	m2	6.56	41.3%	58.0%		3.8%	96, 2%	152.00	411, 34	577. 96	7, 82	38, 09	959, 03	997, 12	
W0203	Concrete (Class A, 21MPa, max agg, 38mm)	m3	284, 07	2, 5%	79.7%	17, 7%	56.7%	43.3%	1, 630. 00	11, 767. 29	369, 149. 12	82, 117, 70	262, 513, 26	200, 520, 84	463, 034. 10	Loss
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	278, 50	15. 5%	0.2%	84.3%	45, 2%	54.8%	257, 00	11, 119. 29	140, 34	60, 314, 86	32, 322. 80	39, 251, 70	71, 574. 50	
W0237	Concrete Curing (reinforced concrete)	m3	278.50	74.6%	7.6%	17, 8%	14.0%	86, 0%	1. 21	874, 99	89. 25	208, 25	163. 62	1, 008, 97	I, 172. 49	
W0241	Formwork (reinforced concrete IK4m)	m2	188, 00	59.3%	39. 9%	0,8%	2.9%	97. เ%∫	224, 08	24, 966, 54	16, 815, 17	330, 29	1, 228, 85	40, 883, 15	42, 112, 00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	33, 420. 00	14. 5%	77.9%	7. 7%	54.5%	45. 5%	24, 50	118, 420. 35	637, 554, 30	62, 815. 36	446, 078, 54	372, 711. 46	818, 790, 00	
L002	Foreman	md	3.00	100.0%	0.0%	0.0%	0.0%	100, 0%	566. 00	1, 698, 00	0.00	0.00	0.00	1, 698, 00	1, 698, 00	
1,009	Welder	l md l	5, 00	100.0%	0.0%		0.0%	100,0%	500.00	2, 500. 00	0. 00		0.00	2,500.00	2, 500, 00	
1.012	Electrician	md	10.00		0.0%	0.0%	0.0%	100.0%	421.00	4, 210, 00	D, 00	0.00	0.00	4, 210, 60	4, 210, 00	
1.019	Skilled Labor	md	5, 08		0.0%	0.0%	0, 0%	100.0%	403.00	2, 015, 00	0.00	0.00	0.00	2, 015, 00	2, 015, 00	
L020	Unskilled Labor	md	5, 00	100.0%	0,0%	0, 0%	0.0%	100.0%	314.00	1, 570, 00	H, 00	0.00	0. 00	1, 570, 00	1, 570.00	
M02015	Structural Steel (Plates, SS400)	kg	50, 246, 00		100, 0%	0.0%	70.0%	30.0%	20, 20	0.00	1,014,969,20		710, 478. 44	304, 490. 76	1, 014, 969, 20	
M13051	Electric Cable	m	12, 960, 00		100. O%	0.0%	55, 😘	45, 0%	62. 30	0, 00	807, 408, 00	0, 00	444, 074, 40	363, 333, 60	807, 108, 00	
0604-020	Trailer 20t	br	3, 14	3, 8%	10. 7%	85, 5%	53.3%	. 46,7%	1,670.00	199, 26	561, 09	4, 483, 45	2, 795. 27	2, 448, 53	5, 243.80	
10901-025	Welding Machine 250A	day	5.00		39, 8%	60, 2%	58.6%	41.4%	588, 00	0.00	1, 170, 12	1, 769, 88	1, 722. 42	1, 217. 58	2, 940, 110	
11001~200	Generator 151-200 kW	day	5, 00	0.0%	47.6%	52.4%	59, 4%	40, 6%	5, 280. 00	0. 00	12, 566, 40	13, 833, 68	15, 687. 09	10, 712, 91	26, 400, 00	
10402-060	Truck Crane, Hydraulic 51-60t	hr	17, 13	2.9%	5.1%	92.0%	53, 4%	16.6%	2, 500. 00	1, 241, 93	2, 184, 08	39, 399, 00	22, 848, 31	19, 976, 69	42, 825, 00	
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6,9m3)	br	6. 28	10.0%	17, 9%		50.8%	49, 2%	. 603,00	378. 68	677, 84	2, 730. 31	1, 922, 88	1, 863. 96	3, 786. 84	
	Miscellancous	LS	1, 00	10, 0%	40.0%	50.0%	55, 0%	45.0%		102, 558. 04	410, 232, 17	512, 790, 21	564 <u>, 0</u> 69, 23	461, 511, 19	1, 025, 580, 42	30. 0
	Total									291, 126, 61	3, 299, 183, 82	853, 871, 39	2, 560, 960, 11	1, 883, 221, 71	4, 444, 181. 82	
	Components (%)	$oxed{oxed}$								6. 6%	74. 2%		57. 6%	42, 4%	100.0%	
	Unit Rate	L. S.		l i					1	290, 852, 67	3, 29fi, 079, 4t	853, 067, 93	2, 558, 550, 33	1, 881, 449, 67	4, 440, 800, 00	

Miscellaneous covers the costs for ancillary electric instruments and fixtures, overhead of the electric company, arrangement expense, minor tools, etc.

SPL 101 (10) b	Shutdown Charge for the Relocation	of Transmi	ssion Line									Unit:	1,00 d	iay	
	T					Unit Rate	e	7.4.1			Amou	nt		Total	Romarks
Item No.	Description	Unit	Quantity	Lab. I M	Component Leguin.		tocal	Total (PP)	Labor	Material	Component (PP) Equipment	Foreign	Local	(99)	Remarks
L002	Foreman	md	1.00		0,0% 0,0	6 0.0%	100.0%	566, 00	566.00	0, 00	0, 00	0,00	566, 00	566, 00	
1.012	Electrician	md	2, 80	100, 0%	0.0% 0.0	6 0.0%	100, 0%	421.00	842.00	0.00	0, 00	0, 00	842.00	842, 00	
MO1009	Clectric Supply	kWh	500, 000, 80	0.0%] 10	0.0%	50.0%	50.0%	4,00	0.00	2, 800, 000, 00	0.00	1, 000, 000, 00	1,000,000,00	2, 000, 000, 00	
	Miscellancous	LS	1, 80	15.0% 6	0,0% 25.0	30.0%	70, 0%		6, 004, 22	24, 016. 90	10, 007, 04	12, 008, 45	28, 019, 71	40, 028, 16	2.0%
	Total								7, 412. 22	2, 024, 016, 90	10, 007. 04	1, 012, 008, 45	1, 029, 427, 71	2, 041, 436, 16	
	Components (%)					T			0.4%	99. 1%	0, 5%	19. 6%	50. 4%	100, 0%	
	linit Rate	day					1		7, 407, 01	2, 022, 592, 99	10, 000, 00	1, 011, 296, 50	1, 028, 703, 50	2, 040, 000, 00	

Miscollaneous covers the cost for maintenance expense, compensation, etc.

Average daily consumption per household = 100,00 kWh/day

Affected number of household = 5,000 household

101 (11)	Removal of Existing Combination Concret	e Curb	& Gutter/Side	Strip									<u>Unit:</u>	100,00	m	
	T						nit Rate					Anic	unt			
ltem No.	Description	Unit	Quantity		Cor	nnanent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Ma L	Equip.	i'or,	Local	(PP)	l.abor	Material	Lquipment	Foreign	Local	(PP)	
W0013	Demolition by Pneumatic Handbold Breaker (Lightly Reinforced Structures)	m3	13. 55	27. 3%	14, 7%	58, 0%	40, 9%	59. 1%	892. 00	3, 299, 87	1, 772, 15	7, 014, 58	4, 947. 10	7, 139, 60	12, 086, 60	
WO111	Disposal of Surplus Soil (backhoe loading)	m3	13. 55	8, 1%	14, 8%	77. 1%	1 "1	48.5%	93. 00	102, 64	185. 91	· ·	648. 65		1, 260, 15,	
	Miscellaneous	LS	1.00	10.0%	30,0%	60,0%	50.0%	50. 0%	<u></u>	13, 35	40. 04		66, 73	66, 73	[33, 47]	1.0%
	Total						[3, 415, 85	1,998,10	8, 066, 27	5, 662, 48	7, 817, 34	13,480, 22	
	Components (%)		·			L				25. 3%	14, 8%	59.8%	42, 0%	58.0%	100.0%	
	Unit Rate	m								34. 21	20.01	80, 78	56, 71	78. 29	135, 00	

Miscellaneous covers the costs for recovering, recompaction, etc. of the disturbed base course, cart, shovels, minor tools, etc.

101(12)	Relocation of Existing Road Signs									 			Unit:	10,00	each	
							nit Rate					Aniou	nt			
I tem No.	Description	Unit	Quantity		Con	ponent (Tota!			Component (PP)			Total	Remarks
				l.ab.	Mat.	<u> Եզաքը,</u>	For.	Lacal	(PP)	<u>t.abor</u>	Material	Equipment	l'oreign .	Local	(PP)	
W0106	Excavation, Backhoe 0,61m3 + Manpower	m3	13. 27	24.6%	6.6%	68.8%	41.7%	58, 3%	59. 50	193. 97	52, 33		329. 44	460, 13	789, 57	
W0133	Backfill C	l m3 l	13.27	11.4%	11.8%	76.7%	49, 4%	50.6%	145.Q0	219, 74	227. 66	1, 476, 76	950, 58	973, 67	1, 924. 15	
₩0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1. 26	27. 3%	14. 7%	58.0%	40.9%	59. 1%	892. 00	306. 85	164, 79	652. 28	460. 03	663, 89	1, 123. 92	
L002	Foreman	md	0. 25	100.0%	0.0%	0.0%	0, 0%	100, 0%	566.00	141. 50	0, 00	0.00	0,00	141, 50	141.50	
L020	Unskilled Labor	md	0.75	100, 0%	0.0%	0, 0%	0, 0%	100.0%	314, 00	235. 50	0, 00	0. 00	0.00	235, 50	235, 50	
WO106	Excavation, Backhoe 0.61m3 + Manpower	m3	13. 27	24, 6%	ь, 6%	68.8%	41.7%	58, 3%	59.50	193. 97	52, 33	543, 26	329, 44	460. 13	789, 57	
WOITI	Disposal of Surplus Soil (hackhoo loading)	m3	1. 26	8. 1%	14, 8%	77. 1%	51.5%	48, 5%	93. 00	9. 54	17. 29	90. 35	60, 32	56, 86	117. 18	
WO133	Backfill C	m3	12.01	11, 4%	11.8%	76. 7%	49, 4%	50, 6%	145.00	198.87	206. 04	1, 336, 54	860, 32	881, 13	1,741.45	
W0203	Concrete (Class A. 21MPa, max agg. 38mm)	m3	1, 26	2, 5%	79.7%	17.7%	56, 7%	43, 3%	1, 630. 00	52. 19	1, 637, 37	364. 24	1, 164, 38	889, 42	2, 053. 80	
W0240	Formwork (plain concrete HC4m)	m2	12, 57	58.9%	40.4%	0, 8%	2.9%	97. 1%	222.00	1,642,50	1, 126, 15	21, 89	82.02	2, 708. 52	2,790,54	
1.002	Foreman	mot	0.80	100.0%	0.0%	0.0%	0.0%	100,0%	566.00	452, 80	0, 00	0.00	0.00)	452, 80	452. 80	
L020	Unskilled Labor	md	2.60	100.0%	0.0%	0.0%	0.0%	100,0%	314, 00	816. 40	0.00	0.00	0.00	816, 40	816, 40	
	Miscellancous	LS	1,00							0, 00	0.00	0.00	0.00	0. 00	0, 00	0. O%
	Total		L							4, 463, 84	3, 483, 96		4, 236. 52	8, 739, 86	12, 976. 38	
	Components (%)			[T						34. 4%	26.8%	38.8%	32. 6%	67. 4%	100, 0%	
	Unit Rate	each		اا						447, 20	349, 03	503, 77	424, 42	875, 58	1, 300, 00	

101 (13)	Removal of Existing Road Signs												Unit:	10,00 e	ach	
	T	Ϊ́Τ				LI.	nit Rate	·				Amou	int			
ltem No.	Description	Unit	Quantity		Соп	ponent	(%)		Total			Component (PP)			Total	Remarks
				Jab.	Mai.	Equip.	For.	Local	(99)	Labor	Material	Equipment.	Foreign	Local	(FF)	
WO106	Excavation, Backhoe 0,61m3 + Manpower	m3	13. 27	24.6%	6, 6%	68, 8%	41.7%	58, 3%	59. 50	193, 97	52. 33	543, 26	329, 44	460, 13	789, 57	
WQ133	Backfill C	m3	13, 27	11.4%	11,6%	76, 7%	49, 4%,	50, 6%	145, 00	219. 74	227. 66	1, 476, 76	950. 58	973. 57	1, 924, 15	
W0013	Demolition by Pneumatic Handhold Breaker (Lightly Reinforced Structures)	m3	1, 26	27. 3%	14.7%	58. 0%	40. 9%	59. 1%	692. NO	306. 85	164. 79	662, 28	460, 03	6 63. 89	l, 123. 92	
1.002	Foreman	met	0, 25	100.0%	0.0%	0,0%	0.0%	100.0%	566, 00	141.50	0.00	u, go	a, co	141.50	141.50	
1.020	Unskilled Labor	md	0.75	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	235, 50	0, 00	0.00	0,00	235, 50	235, 50	
L	Miscellangous	L5	1,00							0.00	0.00	0. 001	0.00	0.00	0,00	0.0%
	Total									1, 097. 56	411. 78	2, 672, 30	<u>1,</u> 740, 04	2, 474, 60	4, 214. 64	
	Components (%)	L. I								26. 0%	10.6%	63, 4%	41.3%	58. 7%	100.0%	
	Unit Rate	each								109.64	44. 43	266, 94	173.81	247. 19	421.00	

101(14)	Removal of Existing Concrete Revetment												Unit:	L.00 &	. S.	
						U	nit Rate	,				Amou	nt			
Item	No. Description	Dnít	Quantity	-	Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
		L., i		Lab.	Mat.	Equip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
WOO	Demolition by Crawler Drill (Lightly Reinforced Structures)	m3	75, 00	11.6%	6, 3%	82.0%	48. 7%	51.3%	624, 00	5, 441. 13	2, 971, 75	38, 387, 12	22, 775. 71	24, 024. 29	46, 800, 00	
WOO	25 Disposal of Demolished Debris	m3	75.00	16.2%	12.9%	70.9%	46.9%	53.1%	137, 00	1, 669. 47]	1, 324. 45	7, 281. 09	4, 816, 62	5, 458. 38	Bl, 275, 00	
l	Miscellaneous	LS	1,00	0.0%	15.0%	85.0%	55,0%	45.0%		0.00	856. 13		3, 139, 13	2, 568, 38	5, 707. 50	10.0%
	Total									7, 110, 60	5, 152. 32	50, 519. 58	30, 731, 46	32, 051, 04	62, 782, 50	
	Components (%)									11, 3%	8. 2%	80.5%	18.9%	51.1%	100.0%	
	Unit Rate	l., S.								7, 112. 58	5, 153, 76	50, 533. 66	30, 740, 02	32, 059, 98	62, 800, 00	

Miscellaneous covers the cost for earthworks, clearing, etc.

2(1)	Unsuitable Excavation					U	nit Rate	2				Amou	ı L			
Item No.	Description	Unit	Quantity		Co	npanent.	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat,	Equip,	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
R0101-021	Tractor, crawler w/dozer (Bulldozer, 21t)	hr	0, 61	1.5%	8, 2%	90, 3%	54.4%	45. 6%	4, 150, 00	37.97	207, 58	2, 285. 94	1, 377, 19	լ, 164. 31	2, 531, 50	
R0102-061	Backhoe, hydraulic, crawler, 0.61m3	hr	1. 77	4, 4%	8, 4%	97. 2%	52.9%	47. 1%	1,740,00	135, 51	258. 70	2, 685. 59	1,628.56	1, 451, 24	3, 079, 80	
R0601-006	Dump Truck, 6.0-9.0 cu-vds (4.6-6.9m3)] hr]	[1, 45]	10.0%	17.9%	72.1%	50.8%	49, 2%	603, 00	690, 44	1, 235. 88	4, 978. 04	3, 505, 89	3, 398, 46	6, 904, 35	
	Miscellaneous	LS	1.00			<u> </u>			l.	0.00	0,00	0.00	0, 00	0.00	0,00	0.0%
	Total	1. 1			L -:	111111				863, 92	1, 702. 16	9, 949, 57	6,511.64	6, 004, 01	12, 515, 65	
	Components (%)									6. 9%	_\3,6%	79. 5%	52.0%	48.0%	100, 0%	
	Unit Rate	m3								8, 63	17.00	99, 37	65. 03	59. 97	125, 00	
	Q = 60 q f · E/Cm (Bulldozer)		184. 04	5.0		-		r (c) (r)	omn Truck)							
	Q : Excavation capacity per bour															

d = po.d.i.c/cm (DOIIIdesci)				
Q : Excavation capacity per hour	=	164.04 ա3/հա	Q = q·f·E/Cm (Dump Truck)	
q : Standard capacity per cycle	=	2,81 m3/cycle	Q : Transportation Volume per hour	8,73 m3/hr
f : Volumo coefficient	=	1.00	q : Loading Capacity of a Truck	6.50 m3
E : Efficiency	=	n, 90	f : Volume Coefficient	1, 00
Cm: Cycle Time = 0,027 L + 0.79	=	0,93 min	E : Efficiency	0, 90
L: Average pushing distance	=	5,00 m	Cm: Cycle Time = A + 2·4/V	0. 67 hr
			Y : Vehicle speed	25.00 km/hr
Q = 3600 q f E/Cm (Backhoe)	•		a : Loading Lime	0. 27 hr
Q : Excavation Volume per hour	=	56, 64 m3/h	1. Average Distance to Disposal Point	5, 00 km
q : Excavation Volume per Cycle	=	0,59 m3		
f · Valuma Confficient	_	1.00		

q: Excavation Volume per Cycle = 0,59 m3 f: Volume Coefficient = 1.00 E: Efficiency = 0,80 Cm: Cycle Time = 30,00 sec

102(2) Surplus Common Excavation Unit: 100.00 m3 Unit Rate Amount Unit Item No. Description Quantity Component (%) Total Component (PP) Total Remarks Lab, Mat. Equip. For. Local (የየ) Material Foreign Local Гарот Equipment Tractor, crawler w/dozer (Bulldozer, R0101-021 90.3% 2, 285, 94 2,531.50 0, 61 1.5% 8.2% 54.4% 45.6% 4, 150, 00, 37. 97 1, 377, 19 1, 154, 31

21t) R0102-061 Backboe, hydraulic, crawler, 0.61m3 1.77 4.4% 52.9% 47. 1% 1, 740, 00 135, 51 258, 70 2, 685, 59 1, 628, 56 1, 451, 24 3, 079, 80 4, 978, 04 R0601-006 Dump Truck. 6.0-9.0 cu-vds (4.6-6,9m3) hr LS 10,0% 17, 9% 72.1% 603.00 690, 44 1, 235, 88 3, 505, 89 3, 398, 46 6, 904, 35 [1, 45] 50, 9% 49, 2% 0.00 0.0% 1.00 0.00 0.00 0.00 Miscellaneous 0.00 0,00 9, 949, 57 6, 511. 64 Total 863, 92 1,702.16 6, 004, 01 12, 515, 65 Components (%) 13.6% m3 17, 00 65, 03 59, 97 125, 00 Unit Rate

Q = 60 · g · f · E/Cm (Bulldozer) Q : Excavation capacity per hour 164, 04 m3/hr $Q = q \cdot f \cdot E/Cm$ (Dump Truck) q : Standard capacity per cycle 2.81 m3/cycle Q : Transportation Volume per hour 8.73 m3/hr f : Volume coefficient 1,00 q: Loading Capacity of a Truck 6,50 m3 Ε: Efficiency 0.90 F: Yolume Coefficient 1.00 Cm: Cycle Time = 0.027 L + 0.79 0, 93 min E : Efficiency 0.90 Cm: Cycle Time = A + 2-L/V I.: Average pushing distance 0.67 hr 5.00 m V : Vehicle speed 25.00 km/hr $Q = 3600 \cdot q \cdot f \cdot E/Cm$ (Backhoe Loading) a : Loading time 0. 27 hr Q : Excavation Volume per hour 56, 64 m3/h L : Average Distance to Disposal Point 5.00 km η : Excavation Volume per Cycle 0.59 m3 1, 00 f : Volume Coefficient

0.80

30,00 sec

E: Efficiency

Cm: Cycle Time

103(1)	Structure Excavation			_								·	Unit:	100, 00 n	n3	
''''		_				Ţ	hit Rate	e				Amou	int			1
Item No.	Description	Unit	Quantity		Cor	aponent	(%)		Total			Component (PP)			Total	Remarks
f				Lab.	Mat	Equip.	For.	Local	(PP)	l.ahor	Materia <u>l</u>	Equipment	Fareign	Local	(PP)	
W0105	Excavation, Backhoe 0,61m3	п3	100.00	4.4%	8,4%	97.2%	52.9%	17.1%	4D, 90	179. 96	343. 56	3, 566, 48	2, 162, 74	1, 927, 26	4, 090, 110	
WOILL	Disposal of Surplus Soil (backboo leading)	m3	31, 90	8.1%	14,8%	77. 1%	51.5%	48, 5%	93, 00	241. 63	437, 67		1, 527. 08	1, 139, 62	2, 966, 70	ı
₩0132	Unckfill B	m3	68.10	7.7%	10.0%	82.3%	51.3%	18, 7%	111.00	578.41	756, 98	fi, 223, 71	3, 875, 58	3, 683, 52	7, 559, 10	,
	Miscellaneous	LS	1.00	L	<u> </u>		L	<u> </u>		0, 00	0.00		0.00	8, 00	0, 00	0.0%
	Total									1,000.01	1, 538, 21	12, 077, 58	7 <u>, 5</u> 65, 39	7, 050, 41	14, 615. RO	
	Components (%)									- 6, 8 %	10.5%	82.6%	51.8%	48, 2%	100.0%	
	Unit Kate	m3								9, 99	15, 37	120, 65	75. 57	70, 43	146.00	

103(2)a	Bridge Excavation above OWL (Common Soil	1)											Unit:	100, 80	m3	
						i	Init Rat	c				Атто	นก t			
ltem No.	Description	Dait	Quantity		Cor	mponent	(%)		Total			Component (PP)			Total	Remarks
L				Lab.	Mat,	Equip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	i.ocal	(PP)	
W0105	Excavation, Backhoe 0,61m3	m3	100.00	4.4%	8, 4%	87.2%	52.9%	47. 1%]	40, 90	179.96	343. 56	3, 566, 48	2, 162, 74	1, 927. 26	4, 090, 00	
WO111	Disposal of Surplus Soil (backhoe	l m3 [33.60	8, 1%	14.8%	77.1%	51.5%	48, 5%	93.00	254. 51	461, 00	2, 409, 29	1, 608, 46	1, 516, 34	3, 124, 80	1
1	loading)	".				1	- **/*								1	f
	Backfill B	m3	66, 40	7.7%	10.0%	82. 3%	51.3%	48.7%	111.00	563.97	738, 08			3, 591, 57		
	Miscellaneous	LS	1.00	<u>l</u>				lI		0.00	0.00	0.00	0.00	0, 00	0.00	0.0%
	Total									998. 44	1, 542, 64	12, 044. 11	7, 550, 03	7, 035, 17	1 <u>4, 58</u> 5, 20	
	Components (%)						I			6.8%	10.6%	82, 6%	<u>51.8%</u>	48, 2%	100, 0%	
	Unit Rate	m3]			9. 99	15. 44	120, 56	75.58	70, 42	146.00	

103 (2) Ъ	Bridge Excavation above OWL (Rocky Soi	1)											Unit:	_100, 00 m	n.3	
						<u> </u>	hit Kate					Amor	int			
Item No.	Description	Unit	Quantity			mponent			Total			Component (PP)			Total	Remarks
		<u> </u>		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0108	Excavation, Backhoe 0,61m3 + Crawler Brill	тЗ	100.00	3.4%	6,5%	90, 1%	53.2%	46. 8%	185, 00	627. 26	1, 197, 50	16, 675. 23	9, 842, 39	8, 657. 61	18, 500, 00	
WOLLE	Disposal of Surplus Soil (backhoe loading)	m3	100, 00	8.1%	14.8%	77.1%	51,5%	48. 5%	93, 00	757. 47	1, 372. 02	7, 170, 51	4, 787. 07	4, 512, 93	9, 300. 00	
₩0132	Backfill B	m3	0.00	7, 7%	10,0%	82, 3%	51.3%	48.7%	[11,00	0.00	0, 00	0, 00	0. 00	0.00	0.00	
i	Miscellaneous	LS	1,00							8,00	0, 00	0, 00	0.00	0, 00	0.00	0.0%
	Total									1, 384, 73	2, 569. 52	23, 845, 75	14, 629, 46	13, 170, 54	27, 800, 00	
	Components (%)				[<u>- </u>			,		5. 0%	9, 2% 25, 10	85.8%	52, 6%	47, 4%	100.0%	
	Unit Kate	m3								<u>1</u> 3. 85	25. 70	238, 46	146, 29	[31,71]	278.00	

						Uı	nit Raig					Апоил	1			
ltem No.	Description	Unit	Quantily		Con	ponent ((%)		Total			Component (PP)			Total	Remarks
				i.ab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(P[²)	
₩040L	Temporary Sheet Pile Driving For excavation, (Vibro Hammer, Common Soil)	m2	123, 90	10.2%	13. 5%	76, 3%	49, 9%	50. 1%	199, 00	2, 517, 41	3, 328, 53	18, 810, 16	12, 309, 83	12, 346, 27	24,656.10	
W0403	Temporary Sheet File Removal for excavation, (Vibro Hammer)	m2	123, 90	10. 2%	13.5%	76, 3%	49.9%	50, 1%	169.00	2, 135, 95	2, 824. 87	15, 978, 27	10, 454. 89	10, 484, 21	20, 939, 10	
W0411	Temporary Struts & Supports Installation	l t	1, 98	33.7%	9.5%	56, 9%	36.9%	63.1%	1, 390, 00	926, 75	260, 44	1, 565, 01	1,015.04	1, 737, 16	2, 752, 20	
W0412	Temporary Struts & Supports Removal	t	1.98	35, 3%	9.1%	55, 5%	35.7%	64.3%	827, 00	578. 41	149, 46	909. 59	585, 19	1, 052, 27	1,637,46	
M05031	Temporary Sheet Pile Depreciation	l t∙d	520, 20	0.0%	100.0%	0.0%	50, 0%	50, 0%	33. 30	0.00	17, 322, 66	0, 00	8,661.33	8, 661, 33	17, 322, 66	
M05041	Temporary Steel Shapes Depreciation	t-d	55. 60	0.0%	100,0%	0,0%	50.0%	50.0%	31, 30	0.00	1, 740, 28	0.00	87D, 14	870. 14	1, 740, 28	
W0105	Excavation, Backhoe 0,61m3	m3	100, 00	4, 4%	8.4%	87. 2%	52, 9%	47. 1%	40. 90	179, 96	343. 56	3, 566, 48	2, 162, 74	1, 927, 26	4, 090, 00	
#(([]	Disposal of Surplus Soil (backhoe loading)	m3	23.30	8.1%	14, 8%	77. 1%	51.5%	48. 5%	93.00	176, 49	319.68	1,670,73	1, 115. 39	1, 051.51	2, 166, 90	
W0132	Backfill B	m3	76, 70	7.7%	10.0%	82.3%	51,3%	48.7%	111.00	651, 46	852, 58	7, 009, 67	4, 365, 0)	4, 148, 69	8, 513, 70	
W0431	Temporary Drain Pump Installation & Removal	set	0, 72	46. 2%	7, 1%	46, 6%	29. 9%	70. 1%	2, 880, 00	958, 77	148, 01	966. 82	620, 84	1, 452, 76	2, 073, 60	
W0432	Temporary Drain Pump Operation	day	20. 10	8, 2%	20, 8%	71. 1%	51.3%	48.7%	1, 190, 00	l, 949. 86	4, 963, 39	17, 905, 75	12, 280, 39	11, 638, 61	23, 919, 00	
	Miscellaneous	LS	1.00							0,00	0.00	0, 00	0.00	0.00	0.00	0.0%
	Total									10, 075. 07	32, 253, 45	67, 482, 48	54, 440, 78	55, 370, 22	109, 811, 00	
	Components (%)									9, 2%	29. 4%[5t.5%(49, 6%	50, 4%	100,0%	
	Unit Rate	m3								100, 92	323. 09	675, 99	545. 34	554, 66	1, 100, 00	

103 (2) d	Bridge Excavation below OWL (Rocky Soil)	1											_Unit:	t00, 00 n	13	
			l l	- "		U	nit Rate)				Amou	nt			
Item No.	Description	Unit	Quantity				(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	Local	(44)	Labor	Material	Equipment	Foreign	Local	(99)	
₩0492	Temporary Sheet Pile Driving for excavation, (Vihro Hammer, Rocky Soil)	m2	123, 90	10.2%	13.5%	76, 3%	49, 9%	50.1%	255, 00	3, 227. 96	4, 267, 38	24, 099. 16	15, 773, 01	15, 821. 49	31, 594, 50	
¥0183	Temporary Sheet Pile Removal for excavation, (Vibro Hammer)	m2	123, 90						169.00	2, 135, 95	2, 824. 87	1 1	10, 454. 89	10, 484, 21	20, 939. 10	
W0411	Temporary Struts & Supports Installation	ί	1, 98	33, 7%					1, 390. 00	926, 75	260. 44		1,015.04	1, 737, 16	2, 752. 20	
WO412	Temporary Struts & Supports Removal	ι	1, 98	35. 3%		55, 5%			827, 00	578. 41	149, 46		685, 19	1, 052, 27	1, 637, 46	
M05031	Temporary Sheet Pile Depreciation	l-d	520, 20	0.0%	100,0%	0.0%			33, 30	0.00	17, 322, 66		8, fifil. 33	8, 661, 33	17, 322, 66	
M05041	Temporary Steel Shapes Depreciation	L d	55. 60	0.0%	100,0%	0.0%	50.0%	50,0%	31. 30	0.00	1, 740. 28	0, 00	870. 14	870, 14	ŧ, 740. 28	
W0108	Excavation, Backhoe 0,61m3 + Crawler Drill	m/3	100. 00	3.4%	ń. 5%	90. 1%	53, 2%	46, 8%	185. 00	627. 26	1, 197. 50	16, 675, 23	9, 842. 39	8, 657, 61	18, 500. 00	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	100.00	8.1%	14, 8%	77. 1%	51.5%	48, 5%	93, 00	757. 47	1, 372. 02	7, 170, 51	4, 787. 07	4, 512, 93	9, 300. 00	
W0132	Sackfill B	m3	0.00	7.7%	10, 0%	82.3%	51.3%	48, 7%	111.00	0.00	0.00	11, 00	0.00	0, 00	0, 00	
W0431	Temporary Drain Pump Installation & Removal	set	0. 72	46, 2%	7. 1%	46.6%	29. 9%	70.1%	2, 880. 00	958. 77	148.01	966, 82	620. 84	1, 452, 76	2, 073, 60	
W0432	Temporary Drain Pump Operation	day	20. 10	8.2%	20, 8%	71.1%	51.3%	48.7%	1, 190.00	1,949,86	4, 963, 39	17, 005, 75	12, 280, 39	11, 638, 61	23, 919, 00	
l	Miscellancous	LS	1, 00	L		L!		L]	0.00	0, 00	0.00	0.00	0, 00	0, 00	0.0%
	Total									11, 162, 44	34, 246. 00	84, 370, 36	64, 890, 29	64, 888, 51	129, 778, 80	
	Components (%)	I								8.6%	26. 4%	65, 0%	50.0%	50.0%	100, 0%	
	Unit Rate	m3								111.81	343, 04	845.14	650, 01	649. 99	1, 300, 00	

103(3)a	Gravel Foundation Fill												Unit:	10.00	m3	
ł						t	Init Rate					<u>Amo</u>	unt			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				í.ab.	Mat	Equip.	for.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PI <u>'</u>)	
L019	Skilled Labor	md	0.30	100.0%	0.0%	0.0%	0, 0%	100, 0%	403.00	120, 90	0, 00	0.00	0.00	120.90	120, 90	
1.020	Unskilled Labor	md	1, 80	100.0%	0.0%	0.0%	0,0%	100.0%	314.00	565, 20	0, 00	0.00	0.00	565, 20	565, 20	
W0122	Crushed Aggregate, transported	m3	12.00	9.1%	15.5%	75, 4%	47.0%	53, 0%	258.00	280, 90	480. 85	2, 334, 25	1, 456, 21	1, 639. 79	3, 096, 00	Loss 20.0%
	Miscellaneous	LS	1.00	0,0%	20.0%	80.0%	55.0%	45.0%		0.00	22, 69	90.77	62, 40	51,06	113.46	3, 0%
	Total									967. 00	503, 54	2, 425, 02	1, 518. 61	2, 376, 95	3, 895. 56	
L	Components (%)									24, 8%	12. 9%		39.0%	61.0%	100, 0%	
	Unit Rate	m3 1								96, 81	50.41	242, 78	152. 03	237.97	390, 00	

Miscellaneous covers the cost for depreciation of compaction equipment, fuel, etc.

103 (3) ъ	Selected Sand Bedding											_	_ Uni L∶		m3	
	" -	_				ĮĮ	nit Rat	e				Amou	nt			
ltem No.	Description	Unit	Quantity		Col	mponent	(%)		Total			Component (PP)			Total	Kemarks
				Lab.		Equip.	For.	Local	(PP)	Labor	Material	Equipment	Poreign	Local	(PP)	
	Skilled Labor	md	0.30	100, 0%	0,0%	0,0%	0,0%	100.0%		120, 90	0.00	0.00	0.00	120, 90	120, 90	
	Unskilled Labor	nd l	1.80	100,0%	0,0%	8.0%	0.0%	100, 0%	314.00	565, 20	0, 00	0.00	0,00	565, 20	565, 20	ļ.
W0128	Selected Sand, transported	m3	12, 00	12.7%	20.0%	67, 2%	43,6%	56.4%	166, 00	253. 04	399, 37	1, 339, 58	867. 98	1, 124, 02	1, 992. 00	Luss 20.0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80,0%	55.0%	45, 0%		0.00	_16. 07	64. 27	44. 19	36, 15	80.34	3.0%
	Total									939, 14	415.44	1, 403. 86	912, 17	1, 846, 27	2, 758. 44	
	Components (%)									34, 0%	15.1%	50, 9%	33. 1%	66.9%	100.0%	
	Unit Rate	m3								93, 97	11,57	140. 47	91.27	184. 73	276.00	
	Miscellaneous covers the cost for depr	eciation	of compaction	equipmen	it, fuel,	etc.										

103 (6) Pipe Culverts and Drain Excavation Unit: 100,00 m3 Unit Rate Amount Component (%)
Lab. Mat. Equip. For. Item No. Description Unit Quantity Total Component (PP) Total Remarks Local (PP)_ Material Equipment Foreign Local W0105 Excavation, Backhoe 0,61m3 100.00 4, 4% 87. 2% 2, 162, 74 1, 927, 26 4, 090, 00 Disposal of Surplus Soil (backhoe WOLII m3 83, 90 14,8% 77. 1% 51.5% 48, 5% 93, 00 635, 52 1, 151, 12 6, 016, 06 7,802.70 4, 016, 35 3, 786, 35 loading) W0133 Backfill C m3 16, 10 76.7% 50.6% 276. 21 11.4% 145. 00 266, 60, 1, 181, 20 2, 334, 50 11.8% 49. 4% 1, 791, 69 1, 153, 30 0, 00 7, 332, 39 LS Miscellaneous 1.00 8,00 0.00 0, 80 0.00 0.0% 11, 374. 23 Total 1,082.08 1, 770, 89 6, 894, 81 14, 227, 20 Components (%) Unit Rate 7.6% 12.4% 79, 9% 113, 52 51.5% 73.18 48.5% 100, 0%

103 (7)	Granular Backfill for Pipe Culverts												Unit:	10,00 m	3	
[Lem No.	Description	Unit	Quantity		Com	ponent (nit Kate (44)	<u> </u>	Total			Amoun Component (PP)	t	·	Total	Remarks
item so.	Description	1 51111	Quantity	Lab.		Equip.	For.	Local	(PP) -	Lahor	Material	Equipment	Foreign	l.ocal	(PP)	iiciiai қа
W0128	Selected Sand, transported	m3	12.00	12.7%	20, 0%	67. 2%	43.6%		[66, 00	253. 04	399, 37	1, 339, 58	867. 98	1, 124, 02	1, 992.00	Loss 20, 0%
1.020	Unskilled Labor	md	1.90	100,0%	0.0%	0.0%	0.0%	100,0%	314.00	596, 60	0, 80	0.00	0.00	596.60	596, 60	l l
R0307-000	Plate Compactur	day	0, 1 6 ,		17.7%	82. 3%	56.2%	43.8%	780, 00	0.00	22. 09	102. 71	70. 14	54, 66	124.80	
R0306-006	Vibration Rammer, 6in	day	0. 27	0, 0%	19. 1%	50.6%	59.7%	40.3%	158.00	0, 00	21.07	21, 59	25, 46	17. 20	42.66	
	Miscellancous	I.S	1,00							0,00	0,00	0,00	0.00	0.00	0.00	0.0%
	Total	1							\longrightarrow	849, 64	142, 54	1, 463, 88	963, 58	1, 792. 48	2, 756, 06	
	Components (%)	m3		\longrightarrow	—— i			\longrightarrow		30.8% 85,09	16. 1% 44, 32	53, 1% 146, 60	35, 0% 96, 50	65.0% 179.50	100.0% 276.00	
<u> </u>	Unit Nate	<u>, ma , </u>								65, 991	44, 321	140, 004	90. 001	178, 501	270. 00	
104(1)	Embankment from Excevated Soil												Unit:	100.00 m;	3	
							nit Rate					Атон	t			
ltem No.	Description	Unit	Quantity			ponent (fotal			Component (PP)			Total	Kemarks
	8-13-1	-	1110 000	Lab,		Equip.	For.	Local	(PP) 07 00	Labor	Material	Equipment	Foreign	l.ocal	(PP)	I CO DW
₩0101 ₩0123	Excavation, Bulldozer 21t	m3	120, 00 120, 00	1.5%	8, 2%	90. 3% 78. 8%	54, 4%	45. 6% 48. 3%	25, 30 69, 70	45. 54	248, 95	2, 741, 51 6, 588, 57	t, 65 t. 65 4, 324, 72	1, 384, 35 4, 039, 28	3, 036, 00	Loss 20, 0% Loss 20, 0%
W0141	Excavated Soil, transported Filling & Laying, bulldozer 15t	m3	100, 00		13, 7% 7, 8%	89, 2%	51,7% 53,6%	46. 4%	27. 50	629, 41 82, 50	1, 146, 02 214, 50	2, 453, 00	1, 473, 42	1, 039. 28	8, 364, 00 2, 750, 00	LOSS ZU. UM
W0147	Compaction, tire roller 8~20t	m3	100, 00		8.0%	87. 7%	52. 7%	17. 3%	10.40	44. 72	83, 20	912. 08	548, 38	491.62	1, 040, 00	
WO151	Slope Formation by Bulldozer	m2	9, 74	7. 5%	7.4%	85.1%	51.1%	48. 9%	39, 60	28. 78	28, 70	328. 22	197, 15	188, 55	385. 70	
,,,,,,,	Miscellaneous	Lis	1.00	7.07		(1,71,71	01, 170	10. 11.	,	0.00	0.00	0.00	0.00	0.00	11, 00	0.0%
	Total	T ~ 1	1.30	-						830, 95	1, 721, 37	13, 023, 38	8, 195. 33	7, 380, 37	15, 575, 70	
	Components (%)	11								5, 3%	11.1%	83.6%	52.6%	47. 4%	100, 0%	_
	Unit Rate	m3								8, 32	17. 24	130. 44	82.08	73, 92	156.00	
104(3)	Embankment from Borrow Soil								-	10			Unit:	100, 00 m	3	
104(3)	EMBERKEERT TION BOTTOW SOTT	Т Т				U	nit Rate	,		·		Атоип		(00,00 m	?Т	·
Item No.	Description	Unit	Quantity		Соп	ponent (Total			Component (PP)			Total	Remarks
<u> </u>		1 1		Lab.		Equip.		l.ocal	(99)	i,ahor	Material	Equipment	Foreign	Local	(PP)	
W0121	Borrow Soil, transported	m3	120, 00	6.9%	22.1%		48.5%	51.5%	221.00	1, 836, 85	5, 849. 76	18, 833, 38	12, 871, 09	13, 648, 91	26, 520. 00	Loss 20.0%
W0141	Filling & Laying, bulldozer 15t	m3	100, 00	3.0%	7.8%	89, 2%	53.6%		27, 50	82. 50	214, 50	2, 453, 00	1, 473. 42	1, 276, 58	2, 760, 00	
₩0147	Compaction, tire roller 8~20t	m3	100, 00		8.0%		52.7%		10. 40	44. 72	83, 20	912.08	548. 38	491.62	1, 040, 00	i
WOL51	Slope Formation by Bulldozer	m2	9, 74	7.5%	7. 4%	85, 1%	ค. เ%	48.9%	39, 60	29. 78	28, 70	328. 22	197. 15	188, 55	385, 70	
<u> </u>	Miscellaneous	LS	1.00	\longrightarrow						0.00	0.00	0.00	0.00	0.00	0.00	0.0%
<u> </u>	Totat Components (%)	11		}						t, 992. 85 6. 5%	6, 176. 16	22, 526, 69 73, 4%	15,090.05 49.2%	15, 605. 65 50, 8%	30,695.70	
	Unit Rate	m3								19, 93	61.77	225, 30	150, 92	156, 08	307, 00	
	OSITE RACE	1 1110 1								10, 10]		μου, συ		150. 001	301.00	
104 (4)	Embankment from Borrow (Selected Granu.	ler Mat	erial) for Bri	dge									_ Unit:	100.00 m3	3	
		J					nit Rate					Amoun	t			
Item No.	Description	[Unit]	Quantity			ponent			Total			Component (PP)		Į.	Total	
W0128	Selected Sand, transported			$\overline{}$												Remarks
₩0128 ₩0141	Selected Sand, transported	[_ n]]	190.00	Lab.		Equip.		local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
J #1/14.L	Gilliam & Lowing bulldager (F)	m3	120, 00	12. 7%	20.0%	67.2%	43.6%	56. 4%	166, 00	2, 530, 43	3, 993, 73	Equipment 13,395.83	8, 679, 80	11, 240, 20	(PP) 19, 920, 00	Loss 20,0%
	Filling & Laying, bulldozer 15t	m3	100.00	12, 7% 3, 0%	20, 0% 7, 8%	67. 2% 89. 2%	43. 6% 53, 6%	56. 4% 46. 4%	166, 00 27, 50	2, 530, 43 82, 50	3, 993, 73 214, 50	Equipment 13, 395, 83 2, 453, 00	8, 679, 80 1, 473, 42	11, 240, 20 1, 276, 58	(PP) 19, 920, 00 2, 750, 00	
W0145	Compaction, bulldozer 15¢	m3 m3	100, 00 100, 00	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8%	67, 2% 89, 2% 89, 2%	43. 6% 53, 6% 53, 6%	56. 4% 46, 4% 46. 4%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 80	3, 993, 73 214, 50 187, 20	Equipment 13, 395, 83 2, 453, 00 2, 140, 80	8, 679, 80 1, 473, 42 1, 286, 90	11, 240, 20 1, 276, 58 1, 114, 10	(PP) 19, 920, 00 2, 750, 00 2, 400, 00	
	Compaction, bulidozer 15¢ Slope Formation by Bulldozer	m3	100.00	12, 7% 3, 0%	20, 0% 7, 8%	67. 2% 89. 2%	43. 6% 53, 6%	56. 4% 46, 4% 46. 4%	166, 00 27, 50	2, 530, 43 82, 50	3, 993, 73 214, 50	Equipment 13, 395, 83 2, 453, 00	8, 679, 80 1, 473, 42	11, 240, 20 1, 276, 58 1, 114, 10 188, 55	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70	Loss 20.0%
W0145	Compaction, bulldozer 15¢	m3 m3 m2	100, 00 100, 00 9, 74	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8%	67, 2% 89, 2% 89, 2%	43. 6% 53, 6% 53, 6%	56. 4% 46, 4% 46. 4%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 90 28, 78	3, 993, 73 214, 50 187, 20 28, 70 0, 00	Equipment 13, 395, 83 2, 453, 00 2, 14t, 80 328, 22	8, 679, 80 1, 473, 42 1, 286, 90 197, 15	11, 240, 20 1, 276, 58 1, 114, 10	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00	
W0145	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%)	m3 m3 m2 LS	100, 00 100, 00 9, 74	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8%	67, 2% 89, 2% 89, 2%	43. 6% 53, 6% 53, 6%	56. 4% 46, 4% 46. 4%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 60 28, 78 0, 00 2, 713, 71 10, 7%	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4%	Equipment 13, 395, 83 2, 453, 00 2, 144, 80 328, 22 0, 00 18, 317, 86 72, 0%	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 7%	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3%	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70	Loss 20.0%
W0145	Compaction, bulldozer 15t Slope Formation by Bulldozer <u>Miscellaneous</u> Total	m3 m3 m2	100, 00 100, 00 9, 74	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8%	67, 2% 89, 2% 89, 2%	43. 6% 53, 6% 53, 6%	56. 4% 46, 4% 46. 4%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 90 28, 78 0, 90 2, 713, 71	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13	Equipment 13, 395, 83 2, 453, 00 2, 148, 80 328, 22 0, 00 18, 317, 86	8, 679, 80 L, 473, 42 L, 286, 90 197, 15 0, 00 L, 636, 27	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70	Loss 20.0%
W0145 W0151	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate	m3 m3 m2 LS	100, 00 100, 00 9, 74	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8%	67, 2% 89, 2% 89, 2%	43. 6% 53, 6% 53, 6%	56. 4% 46, 4% 46. 4%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 60 28, 78 0, 00 2, 713, 71 10, 7%	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4%	Equipment 13, 395, 83 2, 453, 00 2, 144, 80 328, 22 0, 00 18, 317, 86 72, 0%	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 7% 116, 57	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 90 13, 819, 43 54, 3% 138, 43	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 0% 255, 00	Loss 20.0%
W0145	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%)	m3 m3 m2 LS	100, 00 100, 00 9, 74	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8%	67. 2% 89. 2% 89. 2% 85. 1%	43. 6% 53, 6% 53, 6%	56. 4% 46, 4% 46. 4% 48. 9%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 60 28, 78 0, 00 2, 713, 71 10, 7%	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4%	Equipment 13, 395, 83 2, 453, 00 2, 144, 80 328, 22 0, 00 18, 317, 86 72, 0%	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11,636, 27 45, 7% 116, 57	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3%	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 0% 255, 00	Loss 20.0%
W0145 W0151	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate	m3 m3 m2 LS	100.00 100.00 9.74 1.00	12, 7% 3, 0% 3, 0%	20, 0% 7, 8% 7, 8% 7, 4%	67. 2% 89. 2% 89. 2% 85. 1%	43. 6% 53. 6% 53. 6% 51. 1%	56. 4% 46, 4% 46. 4% 48. 9%	166, 00 27, 50 24, 00	2, 530, 43 82, 50 72, 60 28, 78 0, 00 2, 713, 71 10, 7%	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4%	Equipment 13, 395, 83 2, 453, 00 2, 148, 80 329, 22 0, 00 18, 317, 86 72, 0% 183, 50	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11,636, 27 45, 7% 116, 57	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 90 13, 819, 43 54, 3% 138, 43	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00 2	Loss 20.0%
W0145 W0151	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description	m3 m3 m2 LS m3	100.00 100.00 9.74 1.00	12. 7% 3. 0% 3. 0% 7. 5%	20.0% 7.8% 7.8% 7.4%	67. 2% 89. 2% 89. 2% 85. 1%	43. 6% 53, 6% 53, 6% 51. 1% 61 t Kat (%)	56. 4% 46. 4% 46. 4% 48. 9%	166, 00 27, 50 24, 00 39, 60	2, 530, 43 82, 50 72, 90 28, 78 0, 90 2, 713, 71 10, 7% 27, 18	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4%	Equipment 13, 395, 83 2, 453, 00 2, 144, 80 328, 22 0, 00 0 18, 317, 86 72, 0% 183, 50	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00) 11, 636, 27 45, 7X 116, 57 Unit:	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00 2	Lass 20, 0%
W0145 W0151	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor	m3 m3 m2 LS Unit	100. 00 100. 00 9. 74 1. 00	12. 7% 3. 0% 3. 0% 7. 5%	20, 0% 7, 8% 7, 8% 7, 4% Cor Mat.	67. 2% 89. 2% 89. 2% 85. 1%	43. 6% 53. 6% 53. 6% 51. 1% nit Rati (%) For.	56. 4% 46. 4% 46. 4% 48. 9% Local	Total (PP) 314.00	2, 530, 43 82, 50 72, 00 28, 78 0, 00 2, 713, 71 10, 78 27, 18	3,993,73 214,50 187,20 28,70 0,00 4,424,13 17,48 44,32	Equipment 13, 395, 83 2, 453, 00 2, 144, 80 329, 22 0, 00 18, 317, 86 72, 0% 183, 50 Anaun Component (PP) Équipment 0, 00	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 78 116, 67 Unit:	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43 100, 00 m	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00] 2 Total (PP) 40, 82	Lass 20, 0%
W0145 W0151	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3.71m	m3 m3 m2 LS m3	100.00 100.00 9.74 1.00	12. 7% 3. 0% 3. 0% 7. 5%	20.0% 7.8% 7.8% 7.4%	67. 2% 89. 2% 89. 2% 85. 1%	43. 6% 53. 6% 53. 6% 51. 1% nit Rati (%) For.	56. 4% 46. 4% 46. 4% 48. 9% Local	166, 00 27, 50 24, 00 39, 60	2, 530, 43 82, 50 72, 90 28, 78 0, 90 2, 713, 71 10, 7% 27, 18	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4% 44, 32	Equipment 13, 395, 83 2, 453, 00 2, 144, 80 328, 22 0, 00 0 18, 317, 86 72, 0% 183, 50	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00) 11, 636, 27 45, 7X 116, 57 Unit:	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00 2	Lass 20, 0%
W0145 W0151	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3, 71m Vibratory Tandem Smooth Drum 10, 6t	m3 m3 m2 LS m3	100. 00 100. 00 9. 74 1. 00	12, 7% 3, 0% 3, 0% 7, 5% Lab. 100, 0% 3, 6%	20, 0% 7, 8% 7, 8% 7, 4% Cor Mat.	67. 2% 89. 2% 89. 2% 85. 1% 85. 1%	43. 6% 53. 6% 53. 6% 51. 1% nit Rati (%) For.	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8%	Total (PP) 314.00 2,230.00	2, 530, 43 82, 50 72, 90 28, 78 9, 90 2, 713, 71 10, 78 27, 18 Labor 40, 82 20, 87	3,993,73 214,50 187,20 28,70 0,00 4,424,13 17,48 44,32	Equipment 13, 395, 83 2, 453, 00 2, 1441, 80 329, 22 0, 00 18, 317, 86 72, 0% 183, 50 Assour Component (PP) Equipment 0, 00 518, 92	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 78 116, 57 Unit:	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 90 13, 819, 43 54, 3% 138, 43 100, 00 m	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00 2 Total (PP) 40, 82 579, 80	Lass 20, 0%
W0145 W0151 105(1) 1 tem No. L020 R0301-371 R0305-106	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3, 71m Vibratory Tandem Smooth Drum 10, 6t (Vibration Roller, tandem, 8~10t)	m3 m3 m2 LS m3	100. 00 100. 00 9, 74 1. 00 Quantity 0, 13 0, 26 0, 17	12. 7% 3. 0% 3. 0% 7. 5% Lab. 100. 0% 3. 6% 4. 0%	20, 0% 7, 8% 7, 8% 7, 4% 0, 0%	67. 2% 89. 2% 89. 2% 85. 1% 85. 1% Unponent Equip. 0. 0% 89. 5%	43. 6% 53. 6% 53. 6% 51. 1% 61 L Rati (%) For. 0. 6% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314, 00 2, 238, 00 2, 030, 00	2, 530, 43 82, 50 72, 90 28, 78 0, 90 2, 713, 71 10, 78 27, 18 Labor 40, 82 20, 87	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4% 44, 32 Material 0, 00 40, 01 31, 06	Equipment 13, 395, 83 2, 453, 00 2, 1441, 80 328, 22 0, 00 18, 317, 86 72, 0% 183, 50 Component (PT) Equipment (PT) Equipment 0, 00 518, 92 300, 24	8, 679, 80 1, 473, 42 1, 285, 90 197, 15 0, 00 11, 636, 27 45, 7X 116, 57 Unit: t	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43 100, 00 m	(PP) 19, 920, 00 2, 750, 00 2, 760, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 0% 255, 00 2 Total (PP) 40, 82 579, 80 345, 10	Lass 20, 0%
W0145 W0151 L05(1) I tem No. L020 R0301-371	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3, 71m Vibratory Tandem Smooth Drum 10, 6t	m3 m3 m2 LS m3	100. 00 100. 00 9. 74 1. 00 Quantity	12. 7% 3. 0% 3. 0% 7. 5% Lab. 100. 0% 3. 6% 4. 0%	20, 0% 7, 8% 7, 8% 7, 4% 7, 4%	67. 2% 89. 2% 89. 2% 85. 1% 85. 1%	43. 6% 53. 6% 53. 6% 51. 1% 61. 1 (%) For. 0. 0% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314.00 2,230.00	2, 530, 43 82, 50 72, 90 28, 78 9, 90 2, 713, 71 10, 78 27, 18 Labor 40, 82 20, 87	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 48 44, 32 Material 0, 00 40, 01	Equipment 13, 395, 83 2, 453, 00 2, 1441, 80 329, 22 0, 00 18, 317, 86 72, 0% 183, 50 Assour Component (PP) Equipment 0, 00 518, 92	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 78 116, 57 Unit:	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 90 13, 819, 43 54, 3% 138, 43 100, 00 m	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00 2 Total (PP) 40, 82 579, 80	Lass 20, 0%
W0145 W0151 L05(1) I tem No. L020 R0301-371 R0305-106 R0304-016	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3.71m Vibratory Tandem Snooth Drum 10.6t (Vibration Roller, tandem, 8~10t) Four Tamping Foot Wheels (Tire Roller)	m3 m3 m2 LS m3 Unit md hr	Quantity Quantity 0. 13 0. 26 0. 17	12. 7% 3. 0% 3. 0% 7. 5% 7. 5% Lah. 100. 0% 3. 6% 4. 0%	20, 0% 7, 8% 7, 8% 7, 4% 7, 4% 8, 0% 8, 0%	67. 2% 89. 2% 89. 2% 89. 2% 85. 1% Uniponent Equip. 0. 0% 89. 5% 87. 7%	43. 6% 53. 6% 53. 6% 51. 1% 6it Rati (%) For. 0. 0% 53. 2% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314, 00 2, 030, 00 1, 970, 00	2, 530, 43 82, 50 72, 90) 28, 78 9, 90 0, 2, 713, 71 10, 7% 27, 18 Labor 40, 82 20, 87 13, 80 14, 40	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 45 44, 32 Material 0, 00 40, 01 31, 06 26, 79	Equipment 13, 395, 83 2, 453, 00 2, 148, 80 328, 22 0, 00 18, 317, 86 72, 0% 183, 50 Angue Component (PP) Equipment 0, 00 518, 92 300, 24 293, 71	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 7% 116, 57 Unit: t Foreign 0, 100 308, 27 183, 62 176, 59	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 9, 90 13, 819, 43 54, 3% 138, 43 100, 00 m Local 40, 82 271, 53 161, 48 158, 31	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 90 25, 455, 70 100, 03 255, 60 2 Total (PP) 40, 82 579, 80 345, 10	Lass 20, 0%
W0145 W0151 L05(1) I tem No. L020 R0301-371 R0305-106	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3.71m Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t) Four Tamping Foot Wheels (Tire Roller) 16t	m3 m3 m2 LS m3	100. 00 100. 00 9, 74 1. 00 Quantity 0, 13 0, 26 0, 17	12. 7% 3. 0% 3. 0% 7. 5% 7. 5% Lah. 100. 0% 3. 6% 4. 0%	20, 0% 7, 8% 7, 8% 7, 4% 0, 0%	67. 2% 89. 2% 89. 2% 89. 2% 85. 1% Uniponent Equip. 0. 0% 89. 5% 87. 7%	43. 6% 53. 6% 53. 6% 51. 1% 61 t Rati (%) For. 0. 0% 53. 2% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314, 00 2, 238, 00 2, 030, 00	2, 530, 43 82, 50 72, 90 28, 78 0, 90 2, 713, 71 10, 78 27, 18 Labor 40, 82 20, 87	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4% 44, 32 Material 0, 00 40, 01 31, 06	Equipment 13, 395, 83 2, 453, 00 2, 1441, 80 328, 22 0, 00 18, 317, 86 72, 0% 183, 50 Component (PT) Equipment (PT) Equipment 0, 00 518, 92 300, 24	8, 679, 80 1, 473, 42 1, 285, 90 197, 15 0, 00 11, 636, 27 45, 7X 116, 57 Unit: t	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43 100, 00 m	(PP) 19, 920, 00 2, 750, 00 2, 760, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 0% 255, 00 2 Total (PP) 40, 82 579, 80 345, 10	Lass 20.0%
W0145 W0151 L05(1) I tem No. L020 R0301-371 R0305-106 R0304-016	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3.71m Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t) Four Tamping Foot Wheels (Tire Roller) 16t Water Wagon/Pump Truck 500-1000 gal	m3 m3 m2 LS m3 Unit md hr	Quantity Quantity 0. 13 0. 26 0. 17	12. 7% 3. 0% 3. 0% 7. 5% 7. 5% 100. 0% 3. 6% 4. 0% 11. 3%	20, 0% 7, 8% 7, 8% 7, 4% 7, 4% 8, 0% 8, 0%	67. 2% 89. 2% 89. 2% 89. 2% 85. 1% Uniponent Equip. 0. 0% 89. 5% 87. 7%	43. 6% 53. 6% 53. 6% 51. 1% 6it Rati (%) For. 0. 0% 53. 2% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314, 00 2, 030, 00 1, 970, 00	2, 530, 43 82, 50 72, 90) 28, 78 9, 90 0, 2, 713, 71 10, 7% 27, 18 Labor 40, 82 20, 87 13, 80 14, 40	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 45 44, 32 Material 0, 00 40, 01 31, 06 26, 79	Equipment 13, 395, 83 2, 453, 00 2, 148, 80 328, 22 0, 00 18, 317, 86 72, 0% 183, 50 Angue Component (PP) Equipment 0, 00 518, 92 300, 24 293, 71	8, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 7% 116, 57 Unit: t Foreign 0, 100 308, 27 183, 62 176, 59	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 9, 90 13, 819, 43 54, 3% 138, 43 100, 00 m Local 40, 82 271, 53 161, 48 158, 31	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 90 25, 455, 70 100, 03 255, 60 2 Total (PP) 40, 82 579, 80 345, 10	Lass 20, 0%
W0145 W0151 L05(1) I tem No. L020 R0301-371 R0305-106 R0304-016	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3.71m Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t) Four Tamping Foot Wheels (Tire Roller) 16t Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr) Miscellaneous Total	m3 m3 m2 LS m3 Unit md hr hr	Quantity 0, 13 0, 26 0, 17 0, 17 0, 11	12. 7% 3. 0% 3. 0% 7. 5% 7. 5% 100. 0% 3. 6% 4. 0% 4. 3%	20, 0% 7, 8% 7, 8% 7, 4% 7, 4% 8, 0% 8, 0%	67. 2% 89. 2% 89. 2% 89. 2% 85. 1% Uniponent Equip. 0. 0% 89. 5% 87. 7%	43. 6% 53. 6% 53. 6% 51. 1% 6it Rati (%) For. 0. 0% 53. 2% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314, 00 2, 030, 00 1, 970, 00	2, 530, 43 82, 50 72, 90 28, 78 0, 90 2, 713, 71 10, 78 27, 18 Labor 40, 82 20, 87 13, 80 14, 40 6, 77 0, 96, 67	3, 993, 73 214, 50 187, 20 28, 70 0, 00 4, 424, 13 17, 4% 44, 32 Malerial 0, 00 40, 01 31, 06 26, 79 14, 75 0, 00 112, 60	Equipment 13, 395, 83 2, 453, 00 2, 1441, 80 329, 22 0, 00 18, 317, 86 72, 0% 183, 50 Anatur Component (PT) Equipment 0, 00 518, 92 300, 24 293, 71 38, 43 0, 00 1, 151, 29	6, 679, 80 1, 473, 80 1, 478, 80 1, 286, 90 197, 15 0, 00 11, 636, 277 45, 78 116, 57 Unit: 1 Foreign 0, 00 308, 27 183, 62 176, 59 30, 46 0, 00 698, 94	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43 100, 00 m Local 40, 82 271, 53 161, 48 158, 31 29, 49 0, 00 661, 63	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 00 2 Total (PP) 40, 82 579, 80 345, 13 334, 90 59, 95 0, 00 1, 360, 57	0.0%
W0145 W0151 L05(1) I tem No. L020 R0301-371 R0305-106 R0304-016	Compaction, bulldozer 15t Slope Formation by Bulldozer Miscellaneous Total Components (%) Unit Rate Subgrade Preparation (Common Soil) Description Unskilled Labor Motor Grader, 3. 71m Vibratory Tandem Smooth Drum 10. 6t (Vibration Roller, tandem, 8~10t) Four Tamping Foot Wheels (Tire Roller) 16t Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr) Miscellaneous	m3 m3 m2 LS m3 Unit md hr hr	Quantity 0, 13 0, 26 0, 17 0, 17 0, 11	12. 7% 3. 0% 3. 0% 7. 5% 7. 5% 100. 0% 3. 6% 4. 0% 4. 3%	20, 0% 7, 8% 7, 8% 7, 4% 7, 4% 8, 0% 8, 0%	67. 2% 89. 2% 89. 2% 89. 2% 85. 1% Uniponent Equip. 0. 0% 89. 5% 87. 7%	43. 6% 53. 6% 53. 6% 51. 1% 6it Rati (%) For. 0. 0% 53. 2% 53. 2%	56. 4% 46. 4% 46. 4% 48. 9% Local 100. 0% 46. 8% 46. 8%	Total (PP) 314, 00 2, 030, 00 1, 970, 00	2, 530, 43 82, 50 72, 90 28, 78 9, 90 2, 713, 71 10, 78 27, 18 Labor 40, 82 20, 87 13, 80 14, 40 6, 77 9, 90	3,993,73 214,50 187,20 28,70 0,00 4,424,13 17,4% 44,32 Material 0,00 40,01 31,06 26,79 14,75 0,00	Equipment 13, 395, 83 2, 453, 00 2, 1441, 80 328, 22 0, 00 18, 317, 86 72, 0% 183, 50 Anount Component (PT) Equipment 0, 00 518, 92 300, 24 293, 71 38, 43 0, 00 0	6, 679, 80 1, 473, 42 1, 286, 90 197, 15 0, 00 11, 636, 27 45, 7% 116, 57 Unit: 1 Foreign 0, 90 308, 27 183, 62 176, 59 30, 46 0, 00	11, 240, 20 1, 276, 58 1, 114, 10 188, 55 0, 00 13, 819, 43 54, 3% 138, 43 100, 00 m Local 40, 82, 271, 53 161, 48 158, 31 29, 49 0, 00	(PP) 19, 920, 00 2, 750, 00 2, 400, 00 385, 70 0, 00 25, 455, 70 100, 08 255, 601 2 Total (PP) 40, 82 579, 80 345, 10 334, 90 59, 95	0.0%

105(2)	Subgrade Preparation (Existing Gravel)	urface	·)										linit:	100, 00	m2	
						Ų	hit Rati	9				Λino	Unt			
Item No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
·	<u> </u>			Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
f.020	Unskilled Labor	md	0. 13	100, 0%	0.0%	0.0%	0.0%	100.0%	314.00	40. 82	0, 00	0, 00	0.00	40, 82	40. 82	
80301-371	Motor Grader, 3,71m	hr	0, 26	3, 6%	6.9%	89.5%	53.2%	46, 8%	2, 230, 00	20, 87	40, 01	518. 92	308, 27	271.50	579, 80	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	. 0, 17	4.0%	9.0%	87.0%	53, 2%	46, 8%	2, 030. 00	13, 80	31.06	300. 24	183, 62	161. 48	345, 10	
R0304-016	Four Tamping Foot Wheels (Tire Roller)	hr	0, 17	4, 3%	8,0%	87. 7%	52.7%	47. 3%	ι, 970. 00	i 1. 40	26. 79	293. 71	176, 59	158. 31	334, 90	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	0. 11	11, 3%	24,6%	64, 1%	50.8%	49. 2%	545, 00	6. 77	t4. 76	38, 43	30, 46	29, 49	59. 95	
	Miscellaneous	LS	1.00	1	<u> </u>		L			_0.00	<u>0.00</u>	0, 00	0.00		0.00	0.0%
	Total					L				96. 67	112.60	l, 151. 29	698, 94	661.63	1, 360. 57	
	Components (%)									7, 1%	8. 3%	84.6%	51.4%	48.6%	100.0%	
	linit Rate	m2			!			T		0.97	1, 13	11.51	6. 99	6.61	13, 60	

Part	D	Subbase	and	Base	Course

200 (1)	Aggregate Subbase Course												Unit:	100.00 m	3	
] [- 1	Init Rate	>				Amou	in L			
Item No.	Description	Unit	Quantity		Соп	ponent	(%)		Total			Component (PP)			Total	Remarks
i	J			Lab.	Mal.	Equip.	For.	Local	(PP)	l.ahor	Material	Equipment	Foreign	Local	(PP)	
1.020	Unskilled Labor	md	1, 36	100.0%	0.0%	0.0%	0.0%	100.0%	314, 08	427. 04	0, 00	0, 00	0.00	427. 04	427, 04	
R0301-371	Motor Grader, 3.71m	br	2, 48	3, 6%	6, 9%	89.5%	53.2%	46, 8%	2, 230, 00	199. 09	381, 60	4, 949. 71	2, 940, 39	2, 590. 01	5, 530, 40	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	2, 08	4, 0%	9, 0%	87. 0%	53, 2%	46, 8%	2, 030. 00	168, 90	380, 02	3, 673. 49	2, 246, 70	1, 975, 70	4, 222. 40	
R0304-016	Four Tamping Foot Wheels (Tire Roller)	hr	2.08	4. 3%	9.0%	97, 7 <u>%</u>	52.7%	47.3%	1, 970. 00	176. 20	327, 81	3, 593. 60	2, 160, 62	1, 936. 98	4, 097, 60	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1, 36	11.3%	24.6%	64. 1%	50.8%	49. 2%	545, 00	83. 76	182, 34	475. 11	376, 56	364, 64	741, 20	
WO122	Crushed Aggregato, transported	m3	128, 00	9.1%	15.5%	75.4%	47, 0%	53.0%	258.00	2, 996. 26	5, 129, 06	24, 898, 68	15, 532, 88	17, 491, 12	33, 024, 00	Loss 28.0%
l	Miscelianeous	ાડ	1.00		l						0.00	0, 00	0.00	0.00	0.00	0.0%
	Total			I			L.			4, 051, 24	6, 400. 81	37, 590, 58	23, 257. 15	24, 785, 49	48, 042, 64	
	Components (%)									9. 1%	13. 3%	78. 2%	49. 4%	51.6%	100.0%	
	Unit Rate	m3	2.50							40. 48	_63, 95	375. 57	232, 37	247. 63	480, 00	

Thickness = 0.250 m Compaction layer thickness = 0.200 m

200(2)	Aggregate Subbase Course using materia	ls born	by removal of	existi	ng grave	I paven	ent						<u> Unit:</u>	100.00 m	a3Ea	
		1 1				L L	nit Rat	e				Amo	unt			
ltem No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Remarks
	<u></u>			Lab.		Equip,	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
	Unskilled Labor	md	1, 36	100.0%	0,0%	0.0%	0.0%	100,0%	314.00	427. 04	0.00	0, 00	0.00	427, 04	427. 04	
R0301-371	Motor Grader, 3,71m	hr	2, 48	3.6%	6.9%	89, 5%	53.2%	46.8%	2, 230, 00	199.09	381, 60	4, 949. 71	2, 940, 39	2, 590, 01	5, 530, 40	
R0305-106	Yibratory Tandem Smooth Drum 10,6t (Vibration Roller, tandem, 8∼10t)	hr	2. 08	4.0%	9,0%	87, 0%	53. 2%	46.8%	2, 030, 00	168. 90	380, 02	3, 673. 49	2, 246. 70	1, 975. 70	4, 222, 40	
R0304-016	Four Tamping Foot Wheels (Tire Roller)	hr	2. 08.	4. 3%	8.0%	87. 7%	52, 7%	47. 3%	1, 970, 00	176. 20	327. 81	ປ, 593. 60	2, 160, 62	(, 936. 98	4, 097, 60	,
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	1. 36	11.3%	24.6%	64.1%	50, 8%	49. 2%	545.00	83, 76	182. 34	475. [1]	376. 56	364, 64	741. 20	
L	Miscellaneous	l LS	1.00		L]	L]	Ll	0,00	0.00	0.00	0.00	0,00	0.00	0.0%
	Total									1, 054. 98	1, 271. 76	12, 691. 90	7, 724. 27	7, 294. 37	15, 018, 64	
	Components (%)							L		7.0%	8. 5%	84.5%	51.4%	48,6%	100.0%	
	linit Rate	m3						I		10. 54	12, 70	126. 76	77. 15	72. 85	150, 00	

Thickness = 0.250 m
Compaction layer thickness = 0.200 m

201(1)	Aggregate Base Course				_								Unit:	100, 00	m3	
						t	hit Rate	,				Апно	unt			
Lem No.	Description	Unit	Quantity		Cor	aponent	(%)		Total			Component (PP)			Total	Remarks
				Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.020	Unskilled Labor	nd	1.76	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	552. 64	0.00		0, 80	552. 64	552, 64	
R0301-371	Motor Grader, 3.71m	hr	2. 48	3.6%	h, 9%	89. 5%	53.2%	46.8%	2, 230, 00	199.09	381, 60	4, 949. 71	2, 940, 39	2, 590. 01	5, 530, 40	
R0305-106	Vibratory Tandem Smooth Drum 18,6t (Vibration Roller, tandem, 8∼10t)	hr	2. 64	4.0%	9.0%	87.0%	53. 2%	16. B%	2, 030. 00	214. 37	482, 33	4, 662. 50	2, 851, 58	2, 507. 62	5, 359, 20	
R0304-016	Four Tamping Foot Wheels (Tire Roller)	hr	2, 64	4.3%	8.0%	87. 7%	52, 7%	47. 3%	1, 970, 00	223. 63	416, 06	4, 561. 10	2, 742, 33	2, 458. 47	5, 200, 80	
R1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	br	1, 68	11.3%	24, 6%	64.1%	50.8%	49. 2%	545. 00	103. 46	225. 24	586. 90	465, 17	450. 43	915, 60	
WO122	Crushed Aggregate, transported	m3	128, 00	9.1%	15, 5%	75.4%	47.0%	53.0%	258. 00	2, 996. 26	5, 129. 06	24, 898. 68	15, 532, 88	17, 491. 12	33, 024, 00	l.oss 28.0%
	Miscellancous	LS	1.00							0.00	0.00	(1, 00)	0.00	0, 00	8.00	0.0%
	Total									_4, 289. 46	6, 634. 28		24, 532. 34	26, 050. 30	50, 582, 64	
	Components (%)									8. 5%	13.1%		48.5%	51.5%	100.0%	
	Unit Rate	m3								42. 91	66. 37	396. 73	245. 41	260, 59	506. 00	

Thickness = 0.250 m

Compaction layer thickness = 0.150 m

Thickness =

204 (1)	Cement Stabilized Sand Base Course												_Unit:	100, 00 m ²	3	
	T					l	nit Kate	,				Атои	nt			
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
	<u></u>	1 1		Lab.	Mat.	Equip.	For,	l,ocal	(PP)	Labor	Material	Equipment	Pareign	l.oca1	(PP)	_
L020	Unskilled Labor	md	1.67	100, 0%	0.0%	0.0%	0.0%	100.0%	314.00	524. 38	0.00	0. 40	0.00	524. 38	524. 38	-
W0128	Selected Sand, transported	m3	120.75	12.7%	20.0%	67. 2%	43,6%	56.4%	166.00	2, 546, 25	4, 018. 69		8, 734. 05	11, 310, 45	20, 044, 50	Loss 28.09
MO3011	Portland Cement, ordinary	t	5.77	0.0%	100.0%	0.0%	60,0%	40.0%	3, 375, 00	0.00	19, 473, 76	0.00	11,684.25	7, 789, 50	19, 473, 75	Loss 2, 09
R0402-005	Truck Crane, Hydraulic 2-5t	hr	1.90	17.9%	10.9%	71.2%	45.7%	54.3%	412.00	140. 12	85, 33	557. 35	357. 90	424. 90	782. 80	
R0302-000	Soil Stabilizer/Road Reclaimer	hr	2.00	1.4%	4.2%	94.4%	54.0%	46, 0%	5, 840. 00	163, 52	490. 56	11, 025, 92	6, 303, 36	5, 376, 64	11,680,00	
R0301-371	Motor Grader, 0.71m	nr	1, 67,	3, 6%	6.9%	89, 5%	53.2%	46.8%	2, 230, 00	134.07	256, 96	3, 333, 07	1, 980, 02	1, 744. 08	3, 724, 10	
R0304~016	Four Tamping Foot Wheels (Tirc Roller)	hr	1, 67	4. 3%	8.0%	87.7%	52.7%	47, 3%	1, 970. 00	141.47	263. 19	2, 885. 24	1, 734, 73	1, 555. 17	3, 289, 90	
	Miscellancous	LS	1.00				L			0.00	0.08	0.00	0,00	0,00	0.00	0.0%
	Total									3, 649, 80	24, 588, 48	31, 281, 14	30, 794. 30	28, 725, 13	59, 519, 43	
	Components (%)						L			6.1%	41.3%	52.6%	51.7%	48.3%	100.0%	
	linit Rata	m3						T		36 49	245 80	312.71	307.84	287 16	595, 00	

Part E Surface Courses

300(1)	Gravel Surface Course												- Unit:	100, 00 p	13	
			- <u>-</u>			υ	nit Rate					Amou	nt			
Item No.	Description	Unit	Quantity		Con	panent	(%)		Total			Component (PP)			Total	Remarks
				Lah.	Mat,	Equip.		Local	(PP)	l,ahor	Material	Equipment	Foreign	Local	(PP)	
1.020	Unskilled Labor	md	2, 20	100.0%	0,0%	0.0%		100.0%	314, 00	690. 80	0, 00	0.00	0.00	690, 80	690, R0	
R0301-371	Motor Grader, 3.71m	hr	3, 10	3, 6%	6.9%	89.5%	53.2%	46, 8%	2, 230. 00	248, 87	477, 00	6, 187, 14	3, 675, 48	3, 237. 52	6, 913, 00	
R0305-106	Vibratory Tandem Smooth Prum 10.61 (Vibration Roller, tandem, 8~101)	hr	3, 30	4, 0%	9.0%	87.0%	53. 2%	46, 8%	2, 030, 00	267. 96	602. 91	5, 828. 13	3, 564. 47	3, 134, 53	6, 699, 00	
R0304-016	Four Tamping Foot Wheels (Tire Roller)	hr	3, 30	4, 3%	8.0%	87.7%	52,7%	47, 3%	1,970,00	279. 54	520, 08	5, 701. 38	3, 427, 91	3, 073, 09	6,501.00	l
K1103-450	Water Wagon/Pump Truck 500-1000 gal (2200-4500 ltr)	hr	2. 10	11.3%	24. 6%	64. 1%	50.8%	49. 2%	545. 00	129. 33	281. 55	733, 62	581, 46	563. 04	1, 144, 50	
W0129	Gravel/Stone, transported	m3	132, 00	11.7%	10, 7%	69.7%	44.9%	65. I%	196.00	3, 019, 19	4, 827. 42	18, 025, 39	11,616,29	14, 255, 72	25, 872, 00	Loss 32.0%
	Miscel Janeous	LS	1.00		- 1					0.00	0.00	0.00	0.00	0.00	0.00	0.0%
	Total									4, 635, 69	6, 708. 96	36, 475, 66	22, 865. 61	24, 954. 69	47, 820, 30	
	Components (%)									9. 7%	14.0%		47. 8%	52. 2%	100.0%	
	Unit Rate	m3								46. 34	67, 06	364, 60	228. 56	249, 44	478, 00	

Thickness = 0.200 m
Compaction layer thickness = 0.150 m

a. 300 m

6.0%

301(1)	Prime Cost												Unit:	1.0 <u>0 t</u>	L	
		_				I.	Init Rate	?				Атои	nl			
Item No.	Description	Unit	Quantity		Cor	mponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(99)	
L020	Unskilled Labor	md	0.40	100.0%	0.0%	0.0%	0.0%	100.0%	314, 00	125.60	0, 00	9, 60	0.00	125, 60	125, 60	
M07011	Prime Coat	1 1	1, 00	0.0%	100.0%	0.0%	65.0%	35.0%	22, 635, 00	0, 86]	22, 635, 00	0.00	14, 712, 75	7, 922, 25	22, 635. 00	
	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50.0%	50.0%		0.00	22. 76	204, 85	113, 80	113. R <u>O</u>	227. 61	1, 0%
	Total									125, 60	22, 657, 76	204, 85	14, 826, 55	8, 161. 65	22, 988, 21	
	Components (%)						Γ			0, 5%	98, 6%	0.9%	64. 5%	35.5%	100, 0%	
	Unit Pata									195 66	22 660 10	204 95	14 834 16	8 165 84	23 000 80	

Miscellaneous covers the costs for minor tools, cleaning, etc.

302 (1)	Tack Coat									_			Unit:	1.00	l	
						U	nil Rate					Λmou	nt			
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Materiai	Eguipment	Foreign	Local	(PP)	
L020	Unskilled Labor	md	0. 47	100.0%		0, 0%	0, 0%	100.0%	314.00	. [47, 58]	0.00	0, 00	0, 00	147. 58	147, 58	
M07012	Tack Coat	t	1.00	0.0%	100.0%	0.0%		35, 0%	22, 635, 00	0.00	22, 635. 00	0, 00	14, 712. 75	7, 922, 25	22, 635. 00	
L	Miscellaneous	LS	1.00	0.0%	10.0%	90.0%	50, 1%	50.0%	<u></u>	0,00	22, 78	205.04	113.91	113.91	227, 83	1.0%
	Total									147, 58	22, 657. 78	205. 04	14, 826. 66	8, 183, 74	23, 010, 41	
	Components (%)			L						0, 6%	98, 5%	0.9%	64. 4%	35.6%	100.0%	
<u> </u>	Unit Rate	t		L						147, 51	22, 647, 54	204. 95	14, 819, 96	8, 180, 04	23, 000, 00	

Miscellaneous covers the costs for minor tools, cleaning, etc.

310(1)	Bituminous Concrete Surface Course, ho	t laid											Unit:	10, 00	t	
		T				1	hit Rat	е				Amou	nt			_
Item No.	Description	Unit	Quantity		. Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab,		Equip.			(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0.03	300,0%	0.0%	0.0%	0.0%	100, 0%	566, 00	16. 98	0,00	0.00	0,00	16, 98	16. 98	
L019	Skilled Labor	md	0, 18	100,0%		0.0%	0.0%	100.0%	403.00	72. 54	0.00	0, 00	. 0,00	72, 54	72, 54	
L020	Unskilled Labor	md	0.18	100.0%	0.0%	0, 0%	0.0%	100.0%	314,00	56, 52	0. 00	0, 00	0.00	56, 52	56. 52	
R0802-047	Asphalt Paver/Finisher, 4.7m	hr	0. 28	3, 2%	4.3%	92.5%	53.1%	46.9%	2, 420, 00	21, 68	29, 14	626. 78	359, 89	317. 71	677, 60	
R0305~106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	0. 28	4.0%	9.0%	87.0%	53, 2%	46, 8%	2, 030. 00	22, 74	51, 16	494, 51	302, 44	265. 96	568, 40	
R0304-01fi	Four Tamping Foot Wheels (Tire Roller)	hr	0. 28	4.3%	8,0%	87. 7%	52. 7%	47. 3%	1, 970, 00	23, 72	44. 13	483. 75	290, 85	260. 75	551, 60	
M07021	Asphalt Mixture	ι	11. 20	0,0%	100,0%	0.0%	65,0%	35.0%	2, 500, 00	a. pot	28, 000, 00	U. UO	18, 200, 00	9, 800, 00	28, 000, 00	Loss 12, 0%
	Miscellaneous	LS	1.00	0.0%	20.0%	80.0%	50.0%	50.0%	·	0.00	59. 89	239, 55	149. 72	149, 72	299, 44	1.0%
	Total									214. 18	28, 184, 31	1, 844, 59	19, 302, 90	10, 940, 18	30, 243. 08	
	Components (%)		l							0.7%	93, 2%	6.1%	_63, 8%	36. 2%	100.0%	
	Unit Rate	\top \Box								21, 39	2, 814, 42	184, 20	1, 927, 54	1, 092, 46	3, 020, 00	

Miscellaneous covers the cost for spraying equipment, heating fuel, formwork, etc.
Asphalt Pavement Thickness = 50.000 mm Uni Asphalt Pavement Thickness 50.000 mm Unit Wight = 2.35 t/m3 .

310(2)	Asphalt Mixture Wearing Course (t=50mm) for b	ridge pavement										Unit:	100, <u>00</u> m	12	
		1 1				IJ	n <u>it Rat</u> c	2				Amou	ın t			
item No.	Description	Unit	Quantity		Con	ponent +	(%)		Total			Component (PP)			Total	Remarks
						Equip.	For.	l.oca1	(PP)	l.abor	Material	Equipment	Foreign	Luca	(PØ)	
L002	Foreman	md	0.04	100, 0%	0.0%	0.0%	0.0%	100,0%	566, 00	22, 64	0, 00	0.00	0.00	22.64	22, 64	
F018	Skilled tabor	nad l	0.21	. too.o%	0.0%	0.0%	0.0%	100.0%	403.00	84, 63	0.00	0,00	0.00	84,63	84.63	
L020	Unskilled Labor	md	0. 21	100.0%	0,0%	0,0%	0.0%	100.0%	314.00	65. 94	8.00	0.00	0.00	65, 94	65, 94	
R0802-047	Asphalt Paver/Finisher, 4.7m	hr	0. 33	3, 2%	4.3%	92.5%	53, 1%	46.9%	2, 420, 00	25, 56	34. 34	738, 71	424, 15	374, 45	798, 60	
R0305-106	Vibratory Tandem Smooth Drum 10.6t (Vibration Roller, tandem, 8~10t)	hr	0, 33	4.0%	9.0%	87.0%	53. 2%	46, 8%	2, 030. 00	26, 80	60, 29	582. Bi	356, 45	313. 45	669, 90	
R0304-016	Four Tamping Foot Wheels (Tire Roller)	hr	0. 33	4, 3%	8,0%	87.7%	52. 7%	47, 3%	1, 970, 00	27. 95	52, 01	670, 14	342. 79	307, 31	650, 10	
M07012	Tack Coat	t	0, 04	0.0%	100.0%	0.0%	65, 0%	35.0%	22, 635, 00	0, 00	905. 40	0.00	588. 51	316, 89	905.40	
M07021	Asphalt Mixture	l t	13. 16	0.0%	100.0%	0.0%	65.0%	35.0%	2, 500, 00	0.00	32, 900, 00	0.00	21, 385, 00	11, 515, 00	32, 900, 00	Loss 12.0%
	Miscellaneous	L5	1.00	0,0%	20.0%	80.0%	50, 0%	50.0%		0, 00	72. 19	288. 78	180. 49	180, 49	360, 97	1.0%
	Total									253, 52	34, 024, 23		23, 277, 38	13, 180, 80	36, 458, 18	
	Components (%)				L. "					0.7%	93. 3%	6.0%	63. 8%	36. 2%	100, 0%	
_	Unit Rate	283		Γ						2, 54	340, 63	21, 83	233. 04	131, 96	365, 00	

Miscellancous covers the cost for spraying equipment, heating fuel, formwork, etc.

Asphalt Pavement Thickness = 50 mm Uni
Tack Cost = 0.428 ltr/m2 Uni

Unit Wight = 2,35 t/m3 Unit Wight = 1,00 t/m3

100,00 m2 310(3) Waterproofing Layer for Pampanga Deck Slab Unit: Unit Rate Quantity Description linit Component (%) Total (PP) Component (PP) Total Remarks Item No. Lahor Material Equipment Foreign Local (PP) Mat. Equip. For. l.ocal 283.00 0, 110 283.00 283, 00 L002 l'oreman md 0.50 100,0% 0.0% 0.0% 0.0% 100.0% 566,00 0.00 Skilled Labor Unskilled Labor 100.0% 1.019 md 1, 20 0, 70 0.0% 0.0% 0.0% 100.0% 403.00 483, 60 6, 00 0.00 0, 80 483, 60 483, 60 0, 00 219.80 0.0% 100.0% 314.00 219, 80 0.00 0.00 219,801.020 md kg 0.0% 0.0% 1, 281. 00 Loss 5, 0% 1, 281, 00 0.00 Rubberized Asphalt Agent 52. 50 0.0% 100.0% 0.0% 65.0% 35.0% 24, 40 0.00 832, 65 148, 35 M07051 M07052 Rubberized Asphalt kg LS 42.00 0,0% 100.0% 0.0% 65.0% 35, 0% 18, 70 0.00 785. 40 0.00 510.51 274.89 785, 40 Loss 5.0% Miscellaneous 1.00 0.0% 10.0% 90.0% 50, 0% 50.0% 0, 00 15, 26 137, 38 76, 32 76, 32 152, 64 5.0% 3, 205. 44 2, 081. 66 137, 38 1, 119, 48 1, 785, 96 55, 7% Total 986, 40 30.8% 100,0% 4.3% 44. 3% Components (%) 64.9% 9, 88 1, 38 17, 89 32. 10

Unit Rate m2
Miscellaneous covers the costs for asphalt kettle, generator, air compressor, sponge roller, brushes, minor tools, etc.

311(1)e	PCC Pavement (Plain), t=280mm												Unit:	100,00 m	2	
		l i				- Ui	il Rato					Апон	ıt			
ltem Ma,	Description	Unit	Quantity		Com	nanent (%)		Total			Component (PP)			Total	Remarks
_				Lab.	Mat.	Equip.	for.	Local	(PP)	Labor	Material	Equipment	Foreign	l.oca!	<u>(P</u> P)	
1.002	Foreman	md	0.40	100, 0%	0.0%	0.0%	0.0%	100, 0%	566, 00	226, 40	0, 00	0.00	0.00	226, 40	226, 40	
L019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100.0%	403, 00	673, 01	0, 00	0.00	0, 00	673.01	673, 01	
L020	Unskilled Labor	md	6. 71	100. በ%	0.0%	0.0%	0.0%	100.0%	314.00	2, 106, 94	0.00	0.08	0.00	2, 106, 94	2, 106. 94	
W0211	Concrete (for PCC Pavement, 24.1MPa, max		20.04	0.00	77 CW	10.50	57, 1%	42.9%	1, 530. 00	1, 214, 42	34, 249, 58	8, 661, 20	25, 181, 84	18, 943, 36	44, 125, 20	Loss 3,0%
M0211	(agg. 50mm)	[" [28. 84	2.8%	77.6%	19.6%	57, 176	32.7%	1, 530. 00	1, 419, 44	31, 219, 36	0,001.20	20, 101. 11	10, 343, 10	41, 120. 20	LOSS A. UN
M07103	Joint Filler (bituminous L=18mm)	m2	0, 83	0.0%	100.0%	0.0%	60, 0%	40.0%	514,00	0.00	426, 62	0.00	255. 97	170.65	426, 62	
M07113	Joint Sealant (18x18mm)	m	3. 18	0.0%	100,0%	0.0%	60.0%	40, 0%	103.00	0.00	327, 54	0.00	196, 52	131, 02	327, 54	
M07117	Joint Scalant (liquid type)	kg	10, 20	0.0%	100.0%	D. 0%	60.0%	40.0%	96, 20	0, 00	981, 24	0, 00	588, 74	392. 50	981, 24	
M02011	Structural Steel (Round Bar, SS400)	kg	94.49	0.0%	100.4%	0.0%	70.0%	30.0%	21, 80	0.00	2, 059, 88	0.00	1, 441, 92	617.96	2, 059, 88	
M08700	Steel Gas Pipe, \$420	m	1, 42	0,0%	100.0%	0.0%	60.0%	40.0%	76. 70	U. 00	108.91	υ, οο	65. 35	43, 56	108, 91	
Q0705-075	Concrete Spreader, 3~7.5m	hr	ł. 15	2.2%	1.5%	96, 3%	52.9%	47.1%	3, 260. 00	82, 28	57, 03	3, 609, 69	1, 983, 76	1, 765, 24	3, 749, 00	
R0706-090	Concrete Paver/Finisher	hr	1. 15	5.0%	9.6%	85.4%	52, 6%	47.4%	1, 400, 00	80, 50	154, 56	1, 374. 94	847, 44]	762, 56	1,610.00	
R0402-025	Truck Crane, Mydraulic 21-25t	hr	1.71	5.5%	6,8%	87.7%	52.0%	48.0%	1, 330, 80	125. 09	154,65	1, 994. 56	1, 181, 76	1, 092, 54	2, 274, 30	
	Miscellaneous	LS	1.00	0.0%	30.0%	70 <u>. 0%</u> [50.0%	50.0%		0, 00		2, 464, 10	1, 760, 07	1, 760, 07	3, 520. 14	6, 0%
	Total									4, 508, 63	39, 576, 06	18, 104, 49	33, 503, 38	28, 685, 81	62, 189, 18	
	Components (%)									7. 2%	63. 6%	29. 1%	53, 9%	46, 1%	100,0%	
	Unit Rate									45. 09	395, 83	181, 08	335. 09	286, 91	622, 00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.
Thickness = 0.280 m

311(1)b	PCC Pavement (Plain), t=250mm												Unit:	100, 000 m	2	
						U	nit Kate	<u> </u>				Arsou	nt			
Item No.	Description	Unit	Quantity		Com	ponent	(%)		Total			Component (PP)			Total	Remarks
<u> </u>	<u> </u>			Lab.	Mat.	Equip.		Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	nd	0, 40	100, 0%	0.0%	0.0%	0,0%	100, 0%	566. 00	226, 40	0, 00	0.00	9, 00	226. 40	226, 40	
L019	Skilled Labor	nad	l. 67	100.0%	0.0%	O. U%	0.0%	100.0%	403.00	673.01	0, 00	U. 00	0.00	673.01	673.01	
L020	Unskilled Labor	md	6, 71	100, 0%	0.0%	0.0%	0.0%	100, 0%	314.00	2, 106, 94	0.00	0.00	0, 00	2, 106, 94	2, 106, 94	
₩0211	Concrete (for PCC Pavement, 24.1MPa, max agg, 50mm)	m3	26.00	2.8%	77. 6%	19.6%	57, 1%	42, 9%	1, 530. 00	1, 094, 83	30, 876. 88	7, 808. 29	22, 702. 07	17, 077. 93	39, 780, 00	Loss 4.0%
M07183	[aint Filler (hituminous t=18mm)	m2	0,74	0.0%	100,0%	0.0%	60.0%	40.0%	514.00	0.00	380, 36	0.00	228, 22	152, 14	380, 36	
MO7113	foint Sealant (18x18mm)	ta	3. 18	0.0%	100, 0%	0.0%	60.0%	40,0%	103, 00	0.00	327. 54	0.40	196. 52	131, 62	327, 54	
M07117	Joint Sealant (liquid type)	kg	10. 20	ი, 0%	100,0%	Q. 0%	60, 0%	40,0%	96. 20	0, 00	981, 24	0.00	588, 74	392, 50	981, 24	
MO2011	Structural Steel (Round Bar, SS400)	kg	94, 49	0.0%	100, 0%	0.0%	70,0%	30.0%	21.80	0.00	2, 059, 88	0.00	1, 441, 92	617, 96	2, 059.88	
M08700	Steel Gas Pipe, ø20	m]	l. 42	8,0%	100.0%	0.0%	60.0%	40,0%	76. 70	0, 00	108. 91	Ø. HO	65. 36	43, 56	108. 91	
Q0705-075	Concrete Spreader, 3~7.5m	br	1. 15	2, 2%	1.5%	96. 3%	52, 9%	47, 1%	3, 260, 00	82. 28	57. 03	3, 609, 69	1, 983. 76	1, 765. 24	3, 749, 00	
R0706-090	Concrete Paver/Finisher	hr	1, 15		9.6%	85. 4%	52.6%	47.4%	1, 400, 00	80, 50	154, 56	1, 374, 94	847. 44	762, 56	1, 610, 00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5.5%	6, 8%	87.7%	52.0%	48.0%	1, 330, 00	125.09	154, 65	1, 994. 56	1, 181, 76	1, 092, 54	2, 274. 30	
<u> </u>	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50, 0%		0.00	977.00		1, 628. 33	1, 628. 33	3, 256, 65	6.0%
	Total									4, 389. 04	36, 078, 05		30, 864, 11	26, 670, 12	57, 534, 23	
	Components (%)									7.6%	62. 7%	29. 7%	53. 6%	46. 4%	190.0%	
	lhit Kate	m2								43, 86	360, 57	170. 57	308.46	266, 54	575, 00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, choirs, biding wires, glc.

Thickness = 0.250 m

311(1)c	PCC Pavement (Plain), t=230mm												Unit:	100.00 n	12	
						<u>i</u> u	nit Kato)				Атои	nt			
Item No.	Description	Unit	Quantity		Com	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.		Equip.	For.	Local	(PP)	Labor	Materia]	Equipment	Foreign	Loca l	(PP)	
L002	Foreman	md	0, 40	100, 0%	0,0%	0.0%	0.0%	100.0%	566.00	226, 40	0.00	0.00	0.00	226, 40	226. 40	
1.019	Skilled Labor	md	1.67	100.0%	0.0%	0.0%	0.0%	100,0%	403, 00	673.01	0. 00	0, 00	0.00	673, 01	673, 01	
L020	Unskilled Labor	md	6. 71	100.0%	0.0%	0.0%	U. 0%	100.0%	314.00	2, 106, 94	0, 00	0.00	0, 00	2, 106, 94	2, 106, 94	
W0211	Concrete (for PCC Pavement, 24.1MPa, max	2	23.92	2.8%	77. 6%	19.6%	57, 1%	42, 9%	1, 530, 00	1, 007. 24	28, 406, 73	7, 183, 63	20, 886, 91	15, 711, 69	36, 597, 60	Loss 4.0%
1	agg. 50mm)	1 "" 1	23, 32	2.070	11.04	19.0,61	31, 1,4	12, 20	. 1	1, 907. 241	20, 400, 14	1	- ' 1	(0, 111, 110)	1	1043 1. UK
M07103	Joint Filler (bituminous t=18mm)	m2	0. 67	0.0%	100.0%	0.0%	60.0%	40.0%	514.00	0.00	344, 38		206. 63	137. 75	344, 38	
M07113	Joint Sealant (18x18mm)	m	3.18	0.0%	100.0%	0, 0%	60.0%	40.0%	103. 00	0.00	327. 54		196, 52	131. 02	327. 54	
MO7117	Joint Sealant (liquid type)	kg	10.20	0.0%	100.0%	0.0%	60.0%	40.0%	96, 20	0.00	981. 24	0.00	588. 74	392, 50	981, 24	
M02011	Structural Steel (Round Bar, SS400)	kg	97.02	0.0%	100.0%	0.0%	70,0%	30, 0%	21.80	0, 00	2, 115, 04	0.00	1, 480, 53	634, 51	2, 115. 04	
M08700	Steel Gas Pipe, # 20	RI	1.42	0.0%	100.0%	0.0%	60.0%	40.0%	76, 70	0.08	108, 91	0.00	65. 35	43, 56	108, 91	
Q0705~075	Concrete Spreader, 3~7.5m	hr	1. 15	2.2%	1.5%	96, 3%	52, 9%	47. 1%	3, 260, 00	82. 28	57, 03	3, 609, 69	1, 983. 76	1, 765, 24	3, 749, 00	
R0706-090	Concrete Paver/Finisher	hr	1, 15	5.0%	9.6%	85, 4%	52.6%	47, 4%	1,400.00	80, 50	154. 56	t, 374. 94	847, 44	762. 56	1,610,00	
R0402-025	Truck Crane, Mydraulic 21-25t	hr	1, 71	5.5%	6.8%	67. 7%	52, 0%	48, 0%	1, 330, 00	125. 09	154, 65	L, 994. 56	1, 191, 76	1, 092, 54	2, 274, 30,	
İ	Miscellaneous	<u>L</u> S	1.00	0.0%	30.0%	70.0%	50.0%	50.0%	·	0,00	920, 06	2, 146. 80	1, 533, 43	1, 533. 43	3, 066, 86	6, 0%
	Total									4, 30 L, 46	33, 570, t4	16, 309, 63	28, 970, 07	25, 211, 15	54, 181, 22	
	Components (%)									7.9%	62.0%	30, 1%	53. 5%	46. <u>5%</u>	180,0%	
	Unit Rate	m2								43. 03	335, 82	163, 15	289. 80	252. 20	542.00	

Unit Rate | m2 | }
Miscellaneous covers the cost for formwork, truck, concrete cuttor, curing materials, chairs, biding wires, etc.
Thickness = 0.230 m

311(1)d	PCC Pavement (Plain), t=180mm												Unit:	100. <u>00</u> i	ni2	
						U	n <u>it Ra</u> ti	n				Amou	nt			
I Lem Na.	Description	linit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Kemarks
				Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	loreign	Local	(PP)	
L002	Foreman	md	0.40	100, 0%	0.0%	0.0%	0.0%	100, 0%	566, 00	226. 40	0, 00	0, 00	0, 00	226, 40	226. 40	
L019	Skilled Labor	nd 1	l. 67	100.0%	0.0%	0.0%	0.0%	100, 0%	403.00	673, 01	0. 90	0.00	8.00	673. 01	673, 01	
0.020	Unskilled Labor	nd	6.71	100.0%	0.0%	0,0%	0.0%	100.0%	314,00	2, 106, 94	0. 00	0,00	0,00	2, 106. 94	2, 106, 94	
W0211	Concrete (for PCC Pevement, 24.1MPa, max agg. 50mm)	m3	18. 72	2.8%	77.6%	19, 6%	57. 1%	42.9%	1, 630. 00	788, 28	22, 231. 35	5, 621, 97	16, 345, 49	12, 296. 11	28, 641, 60	Loss 4.0%
M07103	Joint Filler (bituminous t=18mm)	m2	0. 51	0.0%	100.0%	0.0%	60, 0%	40.0%	514.00	0, 00	262.14	0,00	157, 28	104, 86	262, 14	
M07113	Joint Scalant (18x18mm)	m.	3. 18	0.0%	100.0%	0.0%	60.0%	40.0%	103, 00	0.00	327, 54	0,00	196. 52	131, 02	327, 54	
MO7117	Joint Sealant (liquid type)	kg	10, 20	0.0%	100.0%	0.0%	60.0%	40.0%	96. 20	0, 00	981. 24	0,00]	588. 74	392, 50	981, 24	
MO2011	Structural Steel (Round Bar, SS400)	kg	114.78	0.0%	100.0%	0.0%	70.0%	30.0%	21, 80	0.00	2, 502, 20	0,00	1, 751, 54	750, 66	2, 502, 20	
MO8700	Steel Gas Pipe, \$20	m	1, 42	0.0%	100.0%	0, 0%	60, 0%	40,0%	76. 70	0, 00	108, 91	0.00	65, 35	43.56	108, 91	
Q0705-075	Concrete Spreader, 3~7.5m	hr	1. 15	2. 2%	1.5%	96, 3%	52.9%	47.1%	3, 260, 00	82. 28	57, 03	3, 609, 69	1, 983. 76	1, 765, 24	3, 749. 00	
R0706-090	Concrete Paver/Finisher	hr	1, 15	5.0%	9.6%	85, 4%	52.6%	43.4%	1,400.00	80, 50	154.56	1,374.94	847, 44	762, 56	1,610,00	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	1.71	5, 5%	6.8%	87, 7%	52.0%	48.0%	1, 330, 00	125, 09	151, 65	1, 994, 56	[, 181, 76]	1, 092, 54	2, 274. 30	
	Miscellaneous	LS	1.00	0.0%	30.0%	70.0%	50.0%	50.0%		0.00	782, 34	1, 825, 46	1, 303, 90	1, 303, 90	2, 607, 80	6, 0%
	Total	Ι						Ī		4, 082, 49	27, 561. 96	14, 426, 62	24, 121, 79	21, 649, 28	46, 071, 08	
	Components (%)							<u> </u>		8.9%	59.8%	31.3%	53.0%	47.0%	100.0%	
L	Unit Rate	m2								40, 85	275. 79	144, 36	244, 37	216.63	461,00	

Miscellaneous covers the cost for formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.

Thickness = 0.180 m

SPL 311(1)e	PCC Pavement (Lean Mix Concrete)												Unit:	10.00 mi	3	
1		ll				Uı	it Rate					Amoun	t			
Item No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Component (PP)			Total	Remarks
<u></u>				Lab.	Mat.	Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foresan	mrt §	0, 33		0.0%	0.0%			566.00	186, 78	0.00	0.00	0.00	186, 78	186, 78	
L019	Skilled Labor	md	1. 39	100.0%	0.0%	0, 0%	0.0%	100.0%	403, 00	560.17	0.00	0, 60	0.00	560. 17	560. 17	į.
L020	Unskilled Labor	m di	5. 59	100.0%	0.0%	0.0%	0.0%	100.0%	314, 00	1, 755. 26	0, 00	0.00	0.00	1, 755, 26	1, 755, 26	-
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	10, 40	3.0%	75.5%	21.5%	56.1%	43.9%	1, 400. 00	439, 39	10, 995. 39	3, 125, 22	8, 166, 85	6, 393, 15	14, 560, 90	Loss 4.0%
Q0705-075	Concrete Spreader, 3~7.5m	hr	0.96	2.2%	1.5%	96, 3%	52, 9%	47. 1%	3, 260. 00	68, 68	47. 61	3, 013, 31	1, 656. 01	1, 473, 59	3, 129, 60	1
R0706-090	Concrete Paver/Finisher	hr	0.96	5,0%	9, 6%	85, 1%	52.6%	47, 4%	1, 400, 00	67. 20	129. 02	1, 147, 78	707, 43	636, 67	1, 344, 00	İ
R0402~025	Truck Crane, Hydraulic 21-25t	hr	1. 43	5, 5%	6.8%	87.7%	52.0%	48, 0%	1, 330, 00	104, 60	129. 33	1, 667, 97	988, 26	913, 64	1, 901, 90	1
L	Miscellaneous	LS	1.00	0.0%	30, 0%	70, U%	50.0%	50.0%		0.00	421.88	984. 38	703, 13	703. 13	1, 406, 26	6.0%
	Tota)									3, 182, 09	11, 723, 23	9, 938, 85	12, 221, 68	12, 622, 30	24, 843, 97	
	Components (%)									12.8%	47. 2%	40.0%	49. 2%	50.8%	100. (1%	
<u> </u>	Unit Rate	m3								317.65	1, 170. 25	992, 11	1, 220, 00	1, 260, 00	2, 480, 00	

Miscellaneous covers the cost for joints, formwork, truck, concrete cutter, curing materials, chairs, biding wires, etc.

Average Thickness =

0.120 m

SPL 311(2)	PCC Pavement (Reinforced), t=300mm (App	roach	Slab)										Unit:	100.00 m	2	
						<u> </u>	nil Rate	,			·	Amou	ıt.			
item No.	Description	linit	Quantity	L	Cor	npopent			Total			Component (PP)			Total	Remarks
				_l.ah,	Mat.	Equip.		Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0203	Concrete (Class A. 21MPa, max agg. 38mm)	m3	33, 66	2.5%	79.7%	17, 7%	56. 7%	43.3%	1,630.00	1, 394, 33	43, 741, 19	9, 730, 28	31, 105, 70	23, 760, 10	54, 865, 80	Loss 2.09
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	т3	33, 00	15.5%	0. 2%	84, 3%	45. 2%	54.8%	257, 00	t, 317, 55	16, 63	7, 146, 82	3, 829. 99	4, 651. 01	8, 481, 00	
W0237	Concrete Curing (reinforced concrete)	т3	33, 00	74.6%	7.6%	17.8%	14.0%	86. 0%	4. 21	103, 68	10, 58	24. 68	19. 39	119, 54	138, 93	
W0241	Formwork (reinforced cancrete IK4m)	п2	18, 62	59.3%	39, 9%	0.8%	2.9%	97, 1%	224.00	2, 472, 75	1, 665, 42	32, 71	121, 71	4, 049, 17	4, 170, 88	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	J, 444, 40	15, 2%	77. 0%	7.8%	54, 0%	46, 0%	23, 30	5, 111.06	25, 915, 79	2, 627, 67	18, 171, 74	15, 482. 78	33, 654, 52	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3, 845, 50	14.5%	77.9%	7. 7%	54. 5%	45. 5%	24. 50	13, 484, 40	72, 597, 63	7, 152, 72	50, 794. 49	42, 440. 26	93, 234, 75	
M07102	Joint Filler (bituminous t=12mm)	m2	9, 27	0.0%	100.0%	0.0%	60.0%	40.0%	343. 00	0.00	3, 179, 61	0, 00	1, 907, 77	1, 271. 84	3, 179, 61	
M07112	Joint Sealant (12xt2mm)	(m. (32. 20	0.0%	100.0%	0.0%	60,0%	40.0%	75, 20	0, 00]	2, 421, 44	0.00	1, 452, 86	968, 58	2, 421, 44	
M02811	Structural Steel (Round Bar, SS400)	kg	118,89	0.0%	100.0%	0,0%	70.0%	30,0%	21,80	0.00	2, 591, 80	0,00	1,814.26	777.64	2, 591, 80	
	Miscellaneous	LS	1.00	10, 0%	20.0%	70.0%	50.0%	50.0%		405, 48	810.95		2, 027, 39	2, 027, 39	4, 054, 77	2.0%
	Total									24, 289, 24	152,951.04	29, 553, 22	111, 245, 29	95, 548. 21	206, 793, 50	
	Components (%)									11.7%	74. 0%		53, 8%	46. 2%	100, 0%	
	Unit Rate	m2								243, 13	1, 531, 04	295, 83	1, 113, 56	956, 44	2, 070, 00	

Components (%)

| Ihit Rate | m2 |
| Miscellaneous covers the cost for surface finishing, minor tools, etc.
| Thickness = 0.300 m

Part F Bridge Construction

400 (3) a	Steel H Piles (450mmx260kg/m), furni	shed									<u> </u>		Unit:	100.00 m	n	
	····	1				U	nit Rate	,				Ато	unt			
item No.	Description	Unit	Quantity		Con	nponen L	(%)		Total			Component (PP)			Total	Remarks
				Ųab.	Mat.	Equip	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(44)	
1.002	Foreman	md	0. 20	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	113. 20	0,00	0, 00	0, 00	113. 20	113, 20	
1.009	Welder	md	1.00	100.0%	0, 0%	0, 0%	0.0%	100.0%	500.00	500.00	0.00	0, 00	n. oo:	500, 00	509, 00	
	Skilled Lahor	ınd	1,00		0, 8%	0.0%	0.0%	100.0%	403, 00	403. 00	0.00	0.00	0, 00	403, 00	403, 00	
MO2015	Structural Sicel (Plates, SS400)	kg	25, 396, 80	0.0%	100.0%	0.0%	70, 0%	30.0%	20. 20	0.00	513, 015, 36	0, 00	359, 110, 75	153, 904. 61	513, 015, 36	Loss 4.0%
R0901-025	Welding Machine 250A	day	1.00	0.0%	39.8%	60.2%	58.6%	41.4%	588. 00	0.00	234.02			243. 52	588.00	1
R1001-150	Generator 101~150 k₩	nay	1,00	0.0%	52.2%	47.8%	59.9%	40, 1%;	3, 610. 00	0. 00	1, 881. 42	1, 725, 58	2, 164, 17	l, 445, 83	3,610,00	Ţ
R0402-020	Truck Crane, flydraulic 16-20t	hr	0.61	6, 9%	7.7%	85. 4%	5 t. 5%	48.5%	1,070.00	45, 04	50, 26	557.41	335. 83	316, 87	652, 70	į.
R0604-020	Trailer 20t	br	12. 53	3.8%	10.7%	85, 5%	53.3%	46, 7%	1,670.00	795. 15	2, 238. 99	17, 890, 96	11, 154, 38	9, 770, 72	20, 925, 10	
<u>L</u>	Miscellaneous	1.S	1.00	_10, 0%	20.0%	70.0%	_ 50.0%	_ 50.0%		13, 495. 18	26, 990, 37	94, 166, 29	67, 475, 92	67, 475, 92	134, 951, 84	25.0%
	Total									15, 351, 57	544, 413. 42	114, 994, 21	440, 585, 54	234, 173, 66	674, 759, 20	
	Components (%)									2, 3%	80.7%	17.0%	65, 3%	34. 7%	100, 0%	
	Unit Rate	m								153, 57	5, 446, 08	1, 150. 35	4, 407, 43	2, 342, 57	6, 750, 00	

Miscellaneous covers the cost for fabricator's overhead, facilities, etc.

400 (4) a	Precast RC Concrete Pile (400mm x 400mm), fur	nished										Unit:	100.00	m	
						U	nit Rate					Апоч	nt			
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Tota!	Remarks
				Lab.	Mat.	Equip.	for,	l.oca1	(PP)	Labor	Material	Equipment	Poreign	Local	(PP)	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	15. 94	2. 2%	82.7%	15, 1%	57. 8%	42. 2%	1, 860. 00	647, 23	24, 513. 11	4, 488, 06	17, 144, 21	12, 504. 19	29, 648, 40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	15.63	15, 5%	0.2%	84, 3%	45, 2%	54.8%	257.00	624, 04	7, 88	A, 385, QQ	1,814,02	2, 202, 89	4,016.91	
₩Q237	Concrete Curing (reinforced concrete)	m3	15, 63,	74, 6%	7.6%	17, 8%	14.0%	86.0%	4. 21	49, 10	5, 01	11.69	9, 18	56, 62	65, 80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4, 696. 70	15, 2%	77.0%	7, 8%	54, 0%	46.0%	23. 30	16, 619, 44	84, 269, 39	N, 544, 29	59, 088. 34	50, 344. 77	109, 433, 11	
K04Q2-025	Truck Crane, Mydraulic 21-25t	հեր	0.59	5.5%	6.8%	87.7%	52,0%	48.0%	1, 330, 00	43, 16	53, 36	688, 18	407, 74	376. 96	784.70	ļ
R0604-020	Trailer 20t	hr	1, 49	3.8%	10.7%	85, 5%	53, 3%	46, 7%	1,670.00	94. 56	266. 25	2, 127, 50	1, 326, 42	1, 161, 88	2, 488, 30	
	Miscellaneous	LS	1,00	5.0%	25.0%	70.0%	50.0%	50.0%		585, 75	2, 928, 74		5, 857 . 49	5, 857. 49	11, 714, 98	<u>H.</u> 0%
	Total	<u> </u>		Ĺ						18, 663, 27	112, 043, 73	27, 445, 19	85, 647, 40	72, 504, 79	158, 152, 20	
	Components (%)	L								11.8%	70. 8%	17. 4%	54. 2%	45.8%	100, 0%	
L	Unit Rate	_ m	<u> </u>					L		186, 45		274, 19	<u>85</u> 5, 65	724. 35	1, 580, 00	

Miscellaneous covers the cost for mould, forms, maintenance of Cabrication yard, minor tools and devices, etc.

400 (4) b	Precast RC Concrete Pile (450mmx450mm)	furnie	shed										<u>Unit:</u>	100, <u>0</u> 0 m		
							nit Rate	:				Amou	nt			
ltem No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
_		į l		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	20. 04	2. 2%	82.7%	15. 1%	57.8%	42. 2%	1,860.00	813.71	30, 818. 23	5, 642. 46	21, 553. 95	15, 720, 45	37, 274, 40	Loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	т3	19, 66	16, 5%	0.2%	84. 3%	45. 2%	54.8%	257. 00	784. 54	9, 90	4, 255, 61	2, 280. 59	2, 769, 46	5, 050. 05	
WO237	Concrete Curing (reinforced concrete)	m3	19, 65	74.6%	7.6%	17.8%	14,0%	86.0%	4. 21	61. 74	6, 30	14. 69	11, 65	71.18	82. 73	
WO251	Reinforcement Grade 40, cutting, bending & assembly	kg	5, 985. 30	15.2%	77.0%	7.8%	54, 0%	46, 0%	23. 30	21, 179, 19	107, 389, 78	10, 888. 52	75, 299, 98	64, 157, 51	139, 457. 49	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0.74	5. 5%	6.8%	87.7%	52.0%	48.0%	1,330.00	54, 13	66. 93	863, 14	511, 41	472. 79	984. 20	
R0604~020	Trailer 20t	hr	1.88	3, 8%	10.7%	85.5%	53.3%	46.7%	1, 670, 00	119. 30	335, 94	2, 684. 36	1, 673. 60	1, 466, 00	3, 139, 60	
	Miscellaneous	LS	L. 00	5.0%	25, 0%	70.0%	50,0%	50.0%		743, 95	3, 719, 77	10, 415, 35	7, 439, 54	7, 439, 54	14, 879, 08	8.0%
	Total									23, 756. 57	142, 346, 84		108, 770, 61	92, 096, 94	200, 867, 55	
	Components (%)	L .					Ε			11, 8%]	70, 9%	17. 3%	54.2%	45. 8%	100, 0%	
	Unit Rate	m						1		237, 72	1, 424, 41	347. 87	1, 088, 42	921, 58	2,010,00	

Miscellaneous covers the cost for mould, forms, maintenance of fabrication yard, minor tools and devices, etc.

400 (10) a	Steel H Piles (450mmx260kg/m), driven												_Unit:	100, 08 m	1	
						IJ	nit Rate	9				Алоы	nt			
Item No.	Description	Unit	Quantity		Con	mponent	(%)		Total			Component (PP)			Total	Remarks
L	<u></u>			Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md	l. 40	100.0%		0.0%	0.0%	100.0%	566, 00	792. 40	0, 80	0, 00	0.00	792, 40	792. 40	
L009	Welder	nd	I. 40	100,0%	0.0%	0.0%	0.0%	100, 0%	500, 00	700.00	0, 00	0.00	8, 00	700. 00	700, 00	
	Skilled Labor	md	2. 80	100.0%	0.0%	0, 0%	0,0%	100, 0%	403.00	1, 128, 40	0.00	0, 00	0, 00	1, 128, 40	1, 128, 40	
L020	Unskilled Labor	md	1.40	100.0%	0, 0%	0.0%	0, 0%	100.0%	314.00	439, 60	0.00	0,00	0.00	439, 60	439, 60	
R0501-025	Diesel Hammer w/o Cranc, 2.5t	hr	8. 80	0, 0%	0, 0%	100, 0%		11. 1%	1, 670, 00	0.00	0, 00	14, 696, 00	8, 173. 10	6, 522, 90	14, 696, 00	
R0401-035	Crawler Crane, 31-35t	hr	8,80	4.3%	9.8%	85.9%	52.9%	47.1%	1,680.60	635.71	₹, 448. 83	12,699.46	7, 822, 46	6, 961, 54	14, 784, 00	
MO2001	Reinforcing Bars, Grade 40	kg	938, 40	0.0%	100.0%	0, 0%	65.0%	35, 0%	16.00	0,00	15, 014, 40	0, 00	9, 759. 36	5, 255, 04	15, 014, 40	Loss 2.0%
R0402-025	Truck Crane, Hydraulic 21-25t	hr	5. 28	5.5%	6.8%	87. 7%	52.0%	48.0%	1, 330, 00	386, 23	477, 52	6, 158, 64	3, 648, 95	3, 373, 45	7, 022. 40	
R0901~050	Welding Machine 500A	day	1, 40	0, 0%	60.4%	39. 6%	60.6%	39, 4%	1, 470, 00	0.00	1, 243, 03	814, 97	1, 247, 90	810, 10	2, 058, 00	
R1001~150	Generator 101-150 kW	day	1.40	0, 0%	52, 2%	47.8%	59, 9%	40.1%	3, 610, 00	0.00	2, 638, 19	2, 415, 81	3, 029. 84	2, 024, 16	5, 054, 00	
1	Miscellancous	LS	1.00	5, 0%	20.0%	75.0%	50.0%	50.0%		30. 84	123, 38	462. 67	308, 45	308. 45	616, 89	1, 0%
	Total									4, 113, 19	20, 945. 35	37, 247, 55	33, 990. 06	28, 316, 03	62, 306, 09	
	Components (%)									6.6%	33. 6%	59.8%	54.6%	45. 4%	100.0%	
1	Unit Kate	Fil								41, 13	209. 43	372, 44	339, 87	283, 13	623.00	

| Unit Rate | m | Unit Rate | m | Unit Rate | m | Unit Rate | m | Unit Rate | m | Unit Rate | Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc. Tc = (Th + Tw + Tp) / F | Tc: Cycle time por pile | = 26,39 min | Tb: Driving Time = K·α·L·β | = 5,75 min | Tw: Welding Time = 17·n | = 0.00 min | Tr: Preparation time = 6·(n+1)+12 | = 18.00 min | F: Efficiency = 0.9 + (f1 + f2 + f3) | = 0.90 | K: Pile Coefficient | = 1.00 | = 1.00 | a: Soil factor | = 1.15 | A: Nammer factor | = 1.10 | = 1.00 | | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | = 1.00 | Min | Tr: Preparation | Min 1. Pile Driving Length O : Pile size n : number of joint 5, 00 m 0, 45 m 0.00 fl: Obstruction factor 0.00 f2: Space factor f3: Volume factor 0.00 0, 00 T: Daily Operation hour Pile head re-bars 6. 29 hr A: Hammer factor 1.00 46.00 kg/each

400(13)a	Precest Concrete Piles (400mm x 400mm),	driver	n										<u>Unit:</u>	100.00 m	٠	
						U	nit Rate	3				Атон	ıt			-
ltem No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Component (PP)			To tal	Remarks
	<u></u>			Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	l'ore i gn	<u>Local</u>	(PP)	
L002	Foreman	and	0.98	100,0%	0.0%	0.0%	0.0%	100.0%	566, 00	554.68	0.00	0.00	0.00	554. 68	554, 68	
1,009	Welder	mà	v, 98°	100,0%	0.0%	0.0%	0, 0%	300.0%	500.00	490, 80	0.00	n. 60	0.00	490.00	190.00	ì
L019	Skilled Labor	md	1. 96	100.0%	0, 0%	0.0%	0.0%	100.0%	403, 00	789. 88	0, 00	0.00	8,00	789. 88	789, 88	
L020	Unskilled Labor	md }	0.98	100, 0%	0.0%	0.0%	0, 0%	100.0%	314.00	307, 72	0.00	0.00	0,00	307.72	307, 72	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	6. 17	0.0%	0.0%	100.0%	55, fi%	44. 4%	1, 670. 00	0, 00	0. 00	10, 303, 90	5, 730. 45	4, 573, 45	10, 303, 90	
R0401-035	Crawler Crane, 31-351	112:	6. 17	4, 376	9.8%	85. 9%	52.9%	47, 1%	1, 680, 00	445. 72	1, 015, 83	8, 904, 05	5, 484, 61	4, 880, 99	10, 365, 60	
RO402-025	Truck Crane, Hydraulic 21-25t	hr	3, 70	5, 5%	6.8%	87.7%	52, 0%	48, 0%	1, 330, 00	270, 66	334. 63	4, 315, 72	2, 557. 03	2, 363, 97	4, 921. 00	
R0901~050	Welding Machine 500A	day	0.98	0.0%	68.4%	39, 6%	60.6%	39.4%	1, 478, 00	0.00	870, 12	570.48	873.53	567. 07	1, 440, 60	ļ
R1001-150	Generator 101-150 kW	day	0.98	0,0%	52.2%	47.8%	59.9%	40, 1%	3, 610, 00	0.00	1, 846, 73	1, 691, 07	2, 120, 89	1, 416, 91	3, 537. 80	
	Miscellaneous	1.S	1, 00	5.0%	20.0%	75.0%	55.0%	45.0%		16. 36	65, 42	245, 33	<u> 179. 91</u>	147. 20	327. (1	1, 0%
	Total									2, 875. 01	4, 132, 73	26, 030, 55	16, 946, 43	16, 091, 86	33, 038, 29	
	Components (%)									9. 7%	12.5%	78.8%	51.3%	48.7%	100.0%	
L	Unit Rate	m								28. 72	41.28	260, 00	169, 27	160.73	330, 00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.

β: Hammer factor

Tc = (Th + Tw + Tp) / F Tc: Cycle time per pile 43.10 min 11.65 m L: Pile Driving Length To: Briving Time = $K \cdot \alpha \cdot L \cdot \beta$ Tw: Welding Time = $17 \cdot n$ Tp: Preparation time = $6 \cdot (n+1) + 12$ F: Efficiency = 0.9 + (11 + 12 + 13)20.79 min D : Pile size 0.40 m 0.00 min n : number of joint 0.00 18.00 min fl: Obstruction factor 0.00 0.90 f2: Space factor 0.00 K : Pile Coefficient 1.60 f3: Volume factor 0.00 a: Soil factor 1. 15 T : Daily Operation hour 6, 29 hr

0.97

400 (13) Ь Precast Concrete Piles (450mm x 450mm), driven Unit: 100.00 m

300 (13) B	Tibeast concrete tires (400am x 450mm)	, ULI 101	·										- tall to	100,00 1	a	
		'					nit Rate					Amou	int			
) tem No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Romarks
				Lah,	Mat.	Equip.	lior.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	nd	1,04	100.0%	0.0%	0.0%	0.0%	100, 0%	566,00	588, 64	0.00	0.00	0, 00	588, 64	588. 64	
1,009	Welder	md	1.04	100.0%	0.0%	0.0%	0.0%	100.0%	500.00	520.00	0.00	O. GD	Ö, 90	520.00	520, 00	
1.019	Skilled Labor	_ md	2, 09	100,0%	0.0%	0.0%	0.0%	100.0%	403, 00	838. 24	9, 00	0.00	0.00	838, 24	938. 24	
L020	Unskilled Labor	nd	1.04	100, 0%	0.0%	0.0%	0.0%	100.0%	314.00	326, 56	U. 00	0.00	0.00	326, 56	326, 56	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	6.54	0,0%	0.0%	100.0%	55.6%	44.4%	1, 670, 00	0.00	0.00	10, 921. 80	6, 074, 10	4, 847, 70	10, 921, 80	
R0401-035	Crawler Crane, 31-35t	hr	6. 54	4.3%	9.8%	85.9%	52.9%	47.1%	1, 680, 00	472, 45	1, 076. 75	9, 438, 00	5, 813. 51	5, 173, 69	10, 987, 20	
R0402~025	Truck Crane, Hydraulic 21-25t	hr	3, 92	5.5%	6.8%	87.7%	52.0%	48.0%	1, 330, 00	286, 75	354, 52	4, 572. 33	2, 709, 07	2, 504, 53	5, 213, 60	
R0901~050	Welding Machine 500A	day	1.04	0.0%	60.4%	39, 6%	60.6%	39. 4%	1, 470, 00	0,00	923, 40	605, 40	927.01	601, 79	1, 528. 80	
R1001~150	Generator 101-150 kW	day	1.04	0,0%	52.2%	47.8%	59. 9%	40.1%	3, 610, 00	8,00	1, 959, 80	1, 794. 60	2, 250, 74	1, 503. 66	3, 754, 40	
	Miscellancous	LS	1.00	5.0%	20.0%	75_0%	55.0%	45.0%		17. 34	69, 36	260.09	_190, 74	156, 86	346. 79	L. O%
	Total									3,049,98	4, 383.82	27, 592, 23	17, 965. 17	17, 060, 87	35, 026, 03	
	Components (%)									8. 7%	12.5%	78.8%	51.3%	48. 7%	100.0%	
L	linit Rate	m								30. 48	43.81	275. 72	179. 52	170. 48	350, 00	

Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc.
Tc = (Tb + Tw + Tp) / F To: Cycle time per pile
Th: Driving Time = K·α·l·β
Tw: Wolding Time = 18·n 41.78 min 4. : Pile Driving Longth 10,65 m D : Pile size 19, 60 min 0,45 m 0,00 min n : number of joint 0.00 Tp: Preparation time = 6: (n+1)+12 18.00 min fl: Obstruction factor 0.00 F: Efficiency = 0.9 + (f1 + f2 + f3) K: Pile Coefficient 12: Space factor 13: Volume factor U. 90 0.00 1.60 0.00 n: Soil factor 1.15 T : Daily Operation hour 6, 29 hr β: Hammer factor 1,00

00 (15) a	Test Piles (400mm x 400mm), furnished	& drive	n				nil Rate					Amout	lhit:	100, 00 m		
Item No.	Description	Unit	Quantity		Co-	ponent i		-	Total			Component (PP)	<u></u>	···	Total	Romarks
Trem no.	pescription	Gart	MORITTLA	Lab.	Mat.	Equip.	For.	Lucal	(PP)	1.abor	Material	Equipment	Foreign	Local	(PP)	KOUITI K
1.002	Foreman	md	0, 77		0.0%	0.0%		100.0%	566, 00	435, 82	0, 00	0, 00	0.00	135. 82	435, 82	_
L002	Welder	ned	0.77		0.0%	0.0%	0.0%		500, 00	385. 00	0, 00	0, 00	0, 00	385, 00	385.00	
1.019	Skilled Labor	rad	1. 53		0.0%	0.0%	0.0%		403.00	616, 59	0.00	0.00	0. 00	616, 59	616, 59	
1.020	Unskilled Labor	md	0.77		0.0%	0.0%	0.0%		314.00	241, 78	0.00	0.00	0.00	241.78	241, 78	
	Precast RC Concrete Pile (400mm x	[""	ν, ι (150,0,4	0, 0,4	0.001			317.00	10) .104	1	W. 937)	211.70	2.11.111	
400 (4) a	400mm), furnished	m	100, 00	1	70.8%		54.2%		1, 580. 00	18, 645. 31	F11, 935, 90	27, 418. 78	85, 564, 98	72, 435. 02	158, 1100, 00	
R0501-025	Diesel Hammur w/o Crane, 2.5t	hr	4, 82			100.0%		44. 4%	1, 670, 00	0.00	0.00	8, 049, 40	4, 476, 63	3, 572. 77	8, 049, 40	
R0401-035	Crawler Crane, 31-35t	he	4, 82	4.3%	9.8%	65.9%	52, 9%	47. 1%	1, 690, 00	348. 20	793, 56	6, 955, 84	4, 294, 58	3, 813, 02	8, 097, 60	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	2.89	5, 5%	6,8%	87.7%	52.0%	48.0%	1, 330, 00	211, 40	261.37	3, 370, 92	1, 997, 25	1, 846. 45	3, 843, 70	
R0901-050	Welding Machine 500A	day	0, 77	0.0%	60.4%	39, 6%	60, 6%	39, 1%	1, 470, 00	0, 00	683, 67	448. 23	686, 35	445, 55	t, i31. 90	
R1001~150	Generator 101-150 kW	day	0, 77	0.0%	52, 2%	47. 8%	59.9%	40. 1%	3, 610, 00	0, 00	1,451.00	1, 328, 70	1, 666, 41	1, 113, 29	2,779,70	
	Miscellaneous	LS	1, 00	10.0%	20.0%	70, 0%	55.0%	45, 0%		183, 58	367, 16	1, 285, 07	1,009,70	826, 12	1, 835, 81	1.0%
	Total									21, 067, 69	115, 492, 67	48, 85h, 95	99, 685, 89	85, 731. 41	185, 417, 30	
	Components (%)			1						11.4%	62. 3%	26, 3%	53. 8%	46, 2%	100, 0%	
	Unit Rate	T		11		1				210, 20	1, 152, 33	487. 47	994, 62	855, 38	1, 850, 00	
	Miscellaneous covers the cost for weldig	ng rods,	scaffolding,	Lubrican	t, etc.											
	Te = (Th + Tw + Tp) / F						Lf: Pile	e Purnis	hed Length	14. 90 1	n .					
	To: Cycle time per pile	=	43.10	min			id: Pilo	e Drivin	g Length	11.65 (n					
	Th: Driving Time = K·α·t.d·β	=	20, 79	min			D : Pilo	e size		9, 40)	n					
	Tw: Welding Time = 17·n	<u>ur</u>	0.00	min			n : neml	ber of j	oint	0,00						
	Tn: Preparation time = 6 (n+1)+12	=	18, 00	min			fl: Obs	truction	factor	0.00						
	F : Efficiency = 0.9 + (f1 + f2 + f3)	=	0.90				f2: Spa	se l'acto	г	0.00						
	K : Pile Coefficient	=	1.60				[3: Vol	ume fact	or	0.00						
	a: Soil factor	=	1.15				T : Daí	lv Opera	tion hour	6, 29	ar .					
	3: Hammer Cactor	=	0.97					, ,								
	,															
0(15)Ъ	Test Piles (450mm x 450mm), furnished	& drive	in '										Unit:	100,00 m		
						Ü	nit Rate	,				Amou	nt			
ltem No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Remar
				Lab.	Mat.	Equip.	For.		(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md		100.0%	0.0%	0, 0%	0.0%		566, 00	452.80	0.00	0.00	0.00	452, 80	452.80	
L009	Welder	md	0, 80	100, 0%	0.0%	0.0%	0,0%	100, 0%	500, 00	400.00	o, on	0, 00	0.00	400, 00	400.00	
1.019	Skilled Labor	nd	l. 59	100.0%	0.0%	0,0%	0.0%	100,0%	403.00	640, 77	0.00	0, 00	0, 80	640.77	640, 77	
1.020	Unskilled Labor	md	0, 80	100.0%	0.0%	0,0%	0.0%	100.0%	314, 00	251, 20	0, 00	0,00	0.00	251, 20	251.20	
400 (4) 5	Precast RC Concrete Pile (450mmx450mm)	1 .	100.00	اسي ا	70.00	(27,100)	E4 CM	AT COL	0 010 00		(40 445 70)	D4 707 00	100 040 00	00 157 47	601 000 00	
400 (4) 0	furnished	1 " 1	100,00	11.8%	70.9%	17.3%	54.2%	45, 8%	2, 010, 00	23, 772. 24	(42, 440, 70	34, 787.06	108, 842, 33	92, 157, 67	201,000.00	

1, 670, 00

1,680.00

1, 330, 00

1, 470, 00

3,610.00

0.00

361. 92

220. 18

227.60

26, 326, 70

0.00

0,00

0.00

824.85

272, 22

710.30

455, 19

63.6%

1, 462. 93

1, 507, 54

146, 210, 81

8, 366, 70

7, 230, 03

3, 510, 89

1, 380, 46

1, 593, 17

57, 334, 02

465, 70

24.9%

573.66

4, 653, 09

4, 453, 47

2, 080. 18

1, 731, 34

1, 251. 78

1, 237, 94

123, 725. 28

713.09

53, 8%

3, 713, 61

3, 963, 33

1, 923, 12

1, 156, 66

1,024.18

1,062.06

46, 2%

106, 146, 25

462, 91

8, 366, 70

8, 416, 80

4, 003, 30

1, 176.00

2, 888, 00

2, 275. 96

100,0%

2, 300, 00

229, 871, 53

1.0%

Components (%) Unit Kate 11.5% 3 Miscellaneous covers the cost for welding rods, scaffolding, lubricant, etc. Tc = (Tb + Tw + Tp) / FLf: Pile Furnished Length 13.90 m To: Cycle time per pile Tb: Driving Time = K·α·L·β 41,78 min Ld: Pile Oriving Length 10.65 m 19.60 min D: Pile size 0.45 m Tw: Welding Time = 18-n 0.00 min n: number of joint 0,00 Tp: Preparation time = 6 (n+1)+12 18.00 min fl: Obstruction factor 0, 00 F: Efficiency = 0.9 + (f1 + f2 + f3)

K: Pile Coefficient f2: Space factor 0.90 0,00 1.60 (3: Volume factor 0.00 α: Sail factor 1, 15 T: Daily Operation hour 6, 29 hr

0.0%

4.3%

5. 5%

0, 0%

0.0%

10.0%

5, 01

5.01

3, 01

0.80

0.80

1.00

0.0%

9.8%

6, 8%

60.4%

52.2%

20.0%

100.0%

85.9%

87.7%

39.6%

47.8%

70, 0%

55.6%

52.9%

52.0%

60.6%

59, 9%

55.0%

44.4%

47.1%

48.0%

39.4%

40.1%

hr

hr

hr

day

day

Diesel Hammer w/o Crane, 2.5t

Truck Crane, Hydraulic 21-25t

Crawler Crane, 31-35t

Welding Machine 500A

Generator 101-150 kW

Miscellaneous

B: Hammer Factor

R0501-025

10401-035

R0402-025

80901-050

R1001-150

400 (15) c	Test Piles (Steel H Piles 460mmx260kg/m), fur	nished & drive	ih									Uni ti	100.00 m	n	
						U	nit Rate)				Атоц	int			· —
[tem No.	Description	Unit	Quantity		Соп	ponent	(%)		Total			Component (PP)			Total	Remarks
L				Lab.	Mat.	Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(१४२)	
L002	Foreman	md	0.99	100.0%	0.0%	0.0%	0.0%	100, 0%	566, 00	560, 34	0.00	0. 00	0.00	560. 34	560. 34	
1,009	Welder	md	0, 99	100.0%	0.0%	0.0%	0.0%	[00.0%]	500.00	495, 00	0, 00)	0.00	0, 00	495.00	495, 00	ì
L019	Skilled Labor	md	1.98	100.0%	0.0%	0.0%	0.0%	100.0%	403, 00	797. 94	0, 80	0. 00	0.00	797. 94	797. 94	}
1.020	Unskilled Labor	md	0, 99	100.0%	0.0%	0.0%	0, 0%	100.0%	314.00	310, 86	0, 90	0. 00	0, 00	310. 8fi	310, 86	1
400 (3) a	Steel H Piles (450mmx260kg/m), furnished	m	100, 00	2.3%	80.7%	17.0%	65.3%	34.7%	6, 750, 00	15, 357, 06	544, 607, 70	115, 035, 25	440, 742, 77	234, 257, 23	675, 000, 00	
R0501-025	Diesel Hammer w/o Crane, 2.5t	hr	6. 24	0.0%	0.0%	100.0%	55. fi%	44.4%	1, 670. 00	0, 110	0.00	10, 420, 80	5, 795, 47	4, 625, 33	10, 420, 80	
R0401-035	Crawler Crane, 31-35t	hr	ჩ. 24	4, 3%	9.8%	85.9%	52, 9%	47. 1%	1,680.00	450. 78	1, 027. 35	9, 005. 07	5, 546, 84	4, 936. 36	10, 483, 20	
R0402-025	Truck Crane, Hydraulic 21-25t	hr	3, 74	5.5%	6.8%	87.7%	52.0%	48.0%	1, 330, 00	273.58	338, 25	4, 362, 37	2, 584, 67	2, 389, 53	4, 974, 20	
R0901-050	Welding Machine 500A	day	0.99	0.0%	60.4%	39.6%	60.6%	39, 4%	1, 470, 00	0, 00	879.00	576, 30	882, 45	572, 85	1, 455, 30	
R1001-150	Generator 101-150 kW	day	0.99	8, 0%	52. 2%	47. 8%	59, 9%	40.1%	3,610.00	0.00	1, 865, 58	1, 708. 32	2, 142, 53	1, 431, 37	3, 573, 90	
L	Miscellaneous	LS	1.60	10.0%	20.0%	70, 0%	55.0%	45.0%		708.07	1, 416, 14	4, 956, 50	3 <u>, 894.</u> 39	3, 186, 32	7, 080, 72	1. 0%
	Total									18, 953, 62	<u>55</u> 0, 134. 02	146, 064, 61	461, 589. 11	253, 563, 14	715, 152. 26	
	Components (%)									2. 7%	76. 9%	20, 4%	64. 5%	35.5%	100.0%	
	Unit Rate	<i>m</i>					_			189.5	5, 500, 2	1,460.3	4,614.9	2, 535, 1	7, 150. 0	

Miscellaneous covers the cost for welding rods, scaffolding, tubricant, etc. Tc = (Th + Tw + Tp) / FLf: Pile Furnished Length 7.00 m To: Cycle time per pile L: Pile Driving Longth 26, 20 min 5.00 m Th: Driving Time = $K \cdot \alpha \cdot L \cdot \beta$ Tw: Welding Time = $18 \cdot \mu$ 5, 58 min D : Pile size 0.40 m 0.00 min n : number of joint 0.00 Th: Preparation time = 6 (n+1)+12
F: Efficiency = 0.9 + (f1 + f2 + f3)
K: Pile Coefficient 18,00 min fl: Obstruction factor 0,00 0.90f2: Space factor 0,00 1.00 f3: Volume factor 0, 00 m: Soil factor T: Daily Operation hour . 1, 15 6. 29 hr β: Hammer factor 0.97

	Cast-in-place Concrete Bored Files \$10]				U	nit Rate		1			Апіоці	n L	100,00 i		
item No.	Description	Սուլ	Quantity		Con	iponent ((%)		Total			Component (PP)			Total	Remarks
		1 1		Lab,	Met.	Equip.	For.	Local	(PP)	Lahor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md .	5.44		0.0%	0.0%		100, 0%	566. 00	3, 079, 04	0.00	0.00	0, 00	3, 079, 04	3, 079, 04	
L019	Skilled Labor	md	9, 14		0.0%	0.0%		100.0%	403, 00	3, 683. 42	0, 00	0.40	0.00	3, 683, 42	3, 683, 42	
£020	Unskilled Labor	md	8. 40	100.0%	0.0%	8.0%	0.0%	100, 0%	314.00	2, 637, 60	0.00	0.00	0.00	2, 637, 60	2, 637, 60	
W0205	Concrete (Class AA1, 28MPa, max agg. 25mm)	m3	84. 82	2, 3%	81,4%	16. 3%	57.6%	42, 4%	1, 780. 00	3, 503, 63	122, 926, 09	24, 549. 87	87, 028, 64	63, 950, 96	150, 979, 60	Loss 8,0%
¥0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	78. 54	15.5%	0.2%	84. 3%	45. 2%	64.8%	257.00	3, 135, 76	39, 68	17, 009. 44	9, 115, 38	11, 069, 40	20, 184. 78	
₩0251	Reinforcement Grade 10, cutting, bending & assembly	kg	157, 00	15. 2%	77, 0%	7.8%	54.0%	46.0%	23, 30	555, 55	2, 816, 93	285. 62	1, 975, 19	1, 682, 91	3, 658. 10	
₩0252	Reinforcement Grade 60, cutting, bending & assembly	kg	21, 049, 00	14. 5%	77.9%	7.7%	54, 5%	45. 5%	24, 50	74, 584. 98	401, 552. 37	39, 563, 15	280, 954, 73	234, 745. 77	515, 700, 50	
Q0513-120	All Casing Excavator, 6 1200max	hr	34. 35	1.0%	4, 4%	94.6%	55. 4%	44.6%	6, 200, 00	2, 167, 74	9, 303, 94	201, 498, 33	117, 997, 57	94, 972, 43	212, 970, 00	
R0401-035	Crawler Crane, 31-35t	hr	30, 91	4.3%	9.8%	85.9%	52.9%	47, 1%	1, 680, 00	2, 232, 94	5, 089, 02	44, 606, 84	27, 476, 40	24, 452, 40	51, 928, 80	
Q0514-100	Hammer Grab, • 1000	day	5. 28	0.0%	0.0%	100.0%	67.0%	33.0%	5, 660. 00	0.00	0, 00	29, 884, 80	20, 011, 07	9, 873, 73	29, 884, 80	
Q0515-001	Hammer Crown. ≦ ¢ 1200	day	5. 28	0,0%	0.0%	100.0%	70, 7%	29, 3%	1, 430, 08	0.00	0, 00	7, 550, 40	5, 338, 53	2, 211, 87	7, 550, 40	
Q0516-105	Casing Tube. \$ 1000, 1.=5m	day	116.07	0.0%	0.0%	100.0%	68, 5%	31.5%	1, 780, 00	0.00	0.00	206, 604, 60	141, 572, 06	65, 032, 54	206,604.60	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	77. 52	8.1%	14.8%	77. 1%	51.5%	48, 5%	93.00	587. 19	1, 063, 59	5, 558. 58	3, 710. 94	3, 498. 42	7, 209, 36	
	Miscellaneous	LS	1,00	5.0%	30.0%	65.0%	55.0%	45, 0%		1, 824. 11	10, 944, 64	23, 713, 38	20, 065. 17	16, 416, 96	36, 482, 13	3, 0%
	Total	T								97, 991, 95	553, 736, 17		715, 245, 68	537, 307, 45	1, 252, 553. 13	
	Components (%)	I								7.8%	44. 2%	48.0%	57.1%	42.9%	100.0%	
	Unit Rate	B		T — T						977, 92	5, 526, 07	5,996,00	7, 137, 8R	5, 362, 12	12 500 00	

Miscellaneous covers the cost for stand pipe, tremmy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

Tc = Tso + Te

To: Cycle time per pile

Tso: Preparation Time = 46,8+11.3xL2

Te: Excavation Time = 40,8+1(.3)

573 min/pile 348 min/pile 225 min/pile

Excavator Operation Time TD1 = Tc - 16.4 Crawler Crane Operation Time TD2 = 0.9xTD1

D: Pile diameter
L: Pile Length
L2: Excavation depth
Steel Casing Length
T: Daily Operation hour

556. 44 min/pile 500. B0 min/pile 1, 000 m 27, 000 m 26, 650 m 29, 650 m 6, 50 hr

400 (16) b	Cast-in-place Concrete Bored Piles # 12	O0aun											Unit:	100. (0)	<u> </u>	
	1						nit Rate						nt			
Item No.	Description	Unit	Quantity		Con	monent	(%)		Total			Component (PP)			Total	Remarks
1	<u> </u>			Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1,002	Foreman	md	5. 62	100.0%	0,0%	0.0%	0.0%	100.0%	56fi, 00	3, 180, 92	0, 00	0, 00	0.00	3, 180, 92	3, 180, 92	-
1.019	Skilled Labor	ind	10, 89		0.0%	0.0%	0.0%	100, 8%	403, 00	4, 388. 67	0.00	0,00	0.00	4, 388, 67	4, 398, 67	
1.020	Unskilled Labor	md.	9.84	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	3, 089, 76	0.00	0,00	0,00	3, 089, 76	3, 089, 76	
W0205	Concrete (Class AAI, 28MPa, max [agg. 25mm)	m3	122. 15	2.3%	81.4%	16.3%	57, 6%	12.1%	1, 780.00	5, 045, 61	177, 026, 91	35, 354, 48	125, 330. 68	92, 096, 32	217, 427. 00	loss 8,0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	113, 10	15.5%	0, 2%	84, 3%	45. 2%	54.8%	257. 00	4, 515, 59	56, 99	24, 494, 12	13, 126, 42	15, 940, 28	. 29, 066, 70	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	226, 00	15. 2%	77.0%	7.8%	54.0%	46. 0%	23, 30	799. 71	4, 054, 95	411. 14	2, 843, 27	2, 422, 53	5, 265. 80	
₩0252	Reinforcement Grade 60, cutting, bending & assembly	kg	30, 311, 00	14, 5%	77.9%	7. 7%	54. 5%	45. 5%	24, 50	107, 403. 92	578, 243, 81	56, 971, 76	404, 580. 68	338, 038, 82	742, 619, 50	
Q0513-120	All Casing Excavator, \$1200max	hr	35, 12	1.0%	4.4%	94.6%	55, 4%	44.6%	6, 200, 00	2, 216, 33	9, 512, 50	206, 015, 17	120, 642, 64	97, 101, 36	217, 744. 00	
R0401-035	Crawler Crane, 31-35t	hr	31.61	4.3%	9, 8%	85, 9%	52.9%	47. 1%	1, 680, 80	2, 283, 51	5, 204. 27	45, 617, 02	28, 098, 64	25, 006, 16	53, 104, 80	
Q0514-120	Hammer Grab, # 1200	day	5, 40	0,0%	0.0%	100.0%	67.0%	33, 0%	5, 910, 00	0.00	0, 00	31, 914, 00	21, 369, 83	10, 544, 17	31, 914. 00	
Q0515~001	Hammer Crown, ≤ \$1200	dny	5, 40	0.0%	0.0%	100.0%	70.7%	29, 3%	1, 430, 00	อ. ทอ	0, 00	7,722.00	5, 459, 86	2, 262, 14	7, 722, 00	
Q0516-125	Casing Tube, & 1200, L=5m	day	128. 82	0.0%	0.0%	100, 0%	68, 5%	31.5%	2, 080, 00	0, 00	0.00	267, 945, 60	183, 604. 87	84, 340, 73	267, 945, 60	
MOTIT	Disposal of Surplus Scil (backhoe loading)	m3	111.01	8. 1%	14.8%	77. 1%	51.5%	48.5%	93.00	840, 87	1, 523. 08	7, 959, 99	5, 314, 13	5, 009, 80	10, 323, 93	
	Miscellaneous	LS	1, 00	5.0%	30.0%	65.0%	55.0%	45,0%		2, 390, 69	14, 344, 13		26, 297, 58	21, 516, 20	47, 813, 78	3, 0%
	Total			LI						136, 155, 58	789, 966, 64		936, 668. 62	704, 937, 84	1,641,606.46	
	Companents (%)									8. 3%	48, 1%	43.6%	57, 1%	42.9%	100.0%	
	Unit Rate	h		[1, 360, 22	7, 891. 94	7, 147, 84	9, 357. 52	7, 042. 48	16, 400, 00	

Miscellaneous covers the cost for stand pipe, tremmy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

Tc = Tso + Te

To: Cycle time per pile
Tso: Preparation Time = 46.8*I1.3xL2
Te: Excavation Time = \(\Sigma\) interest.

416.78 min/pile 257.55 min/pile 159.24 min/pile

ai Li aixLi 8, 30 15, 050 124, 92 9, 20 2, 400 22, 08 N < 20 N < 40 N > 40 Total

Excavator Operation Time TD1 = Tc - 16.4 Crawler Crane Operation Time TD2 = 0.9xTD1 D: Pile diameter

L: Pile Length
L2: Excavation depth
Steel Casing Length
T: Daily Operation bour

400, 38 mia/pile 360, 34 min/pile 1, 200 m

19, 000 m 18, 650 m 22, 650 m 6. 50 hr

400 (16) c	Cast-in-place Concrete Bored Piles # 15	OOmta											Unit:	100, 00	n	
							nit Rate	·				Amou	nt			
Item No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Kemarks
	<u> </u>			Lab.	Mat.	Equip.	for,	Local	(99)	Labor	Material	Equipment	Foreign_	Local	(PP)	
1,002	Foreman	md	5. 61		0.0%			100.0%	566, 00	3, 175, 26	0.00	0, 00	0.00	3, 175, 26	3, 175, 26	
1.019	Skilled Labor	md	10.64		0.0%		0.0%		403.00	4, 275, 83	0, 00	0, 00	0, 00	4, 275, 83	4, 275, 83	
L020	Unskilled Labor	md	9. 61	100,0%	0.0%	0.0%	0,0%	100,0%	314.00	3, 017, 54	0, 00	0.00	0, 00	3, 017, 54	3, 017, 54	
W0205	Concrete (Class AAI, 28MPa, max (agg. 25mm)	m3	190, 85	2, 3%	81.4%	16. 3%	57, 6%	42. 4%	1, 780. 00	7, 883, 38	276, 590, 96	55, 238, 66	195, 819, 57	143, 893, 43	339, 713, 60	Loss 8, 0%
₩0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	176. 71	15.6%	0, 2%	84.3%	45. 2%	54, 8%	257. 00	7, 055. 26	89, 05	38, 270, 16	20, 509, 02	24, 905, 45	45, 414, 47	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	353.00	15. 2%	77.0%	7. 8%	54.0%	46, 0%	23. 30	1, 249, 10	6, 333. 62	642, 18	4, 441. 83	3, 783, 97	8, 224. 90	
₩0252	Reinforcement Grade 60, cutting, bending	kg	47, 358, 00	(4.5%	77, 9%	7.7%	54.5%	45.5%	24, 50	167, 808. 22	903, 449. 92	89, 012, 86	632, 118, 11	528, 152, 89	1, 160, 271, 00	
Q0513-150	All Casing Excavator, \$\phi\$1500max	hr [35. 09	0.7%	2.1%	97. 2%	55.3%	44, 7%	8, 630, 00	2, 215, 05	6, 323, 86	294, 287, 79	167, 613, 21	135, 213, 49	302, 826, 70	
R0401~035	Crawler Crane, 31-35t	hr	31, 58	4, 3%	9.8%	85, 9%	52.9%	47.1%	1, 680, 00	2, 281. 34	5, 199, 33	45, 573, 73	28, 071, 98	24, 982, 42	53, 064, 40	
Q0514-150	Hammer Grab, ø 1500	day	5. 40	0.0%	0,0%	100,0%	67.0%	33.0%	10, 100, 00	0.00	0. 80	54, 540, 00	26, 520, 36	18, 019, 64	54, 540, 00	
Q0515-002	Hammer Crown, > 6 1200	day	5. 40	0.0%	0.0%	100.0%	70, 7%	29, 3%	1, 920. 00	0.00	0.00	10, 368, 00	7, 330, 72	3, 037, 28	10, 368, 00	
00516-155	Casing Tube, ∲1500, L≂5m	day	133, 07	0.0%	0.0%	100, 1%	68.5%	31.5%	2, 890, 00	0.00	0.00	357, 958, 30	245, 284, 45	112, 673, 85	357, 958, 30	
WO111	Disposal of Surplus Soil (backhoe loading)	m3	173. 62	8.1%	14.8%	77. 1%	51.5%	48, 5%	93. 00	1, 315, 12	2, 382, 09	12, 449. 45	8, 311, 32	7, 835, 34	16, 146, 66	
L	Miscellaneous	1.5	1,00	5.0%	30.0%	65.0%	55.0%	45,0%		3, 538, 48	21, 230, 87	46, 000, 23	38, 923, 27	31, 846, 31	70, 769, 58	3, 0%
L	Total									203, 814, 58	1, 221, 599, 70	1,004,341.36	1, 384, 943. 04	1, 044, 812, 60	2, 429, 755, 64	
	Components (%)									8.4%	50.3%	41.3%	57.0%	43.0%	100.0%	
L	Unit Rate	m							<u> </u>	2, 038. 35	12, 217, 23	10, 044, 42	13, 850, 82	18, 449. 18	24, 300, 00	

Miscellaneous covers the cost for stand pipe, tremmy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

Tc = Tso + Te

To: Cycle time per pile

Tso: Preparation Time = 46,8+11,3x1.2
Te: Excavation Time = EaixLi

437.49 min/pile 268,85 min/pile 168,65 min/pile

ai t.i aixLi 8.30 15.150 125.75 9.20 3.000 27.60 10.20 1.500 15.30 19.650 168.65 N < 40 N > 40 Total

Excavator Operation Time TD1 = Tc - 16.4 Crawler Crane Operation Time TD2 = 0.9xTD1

D: Pile diameter
L: Pile Length

L2: Excavation depth Steel Casing Length T: Daily Operation hour

421.09 min/pile 378,98 min/pile 1,500 m 20,000 m 19, 650 m

24, 650 m

6, 50 hr

400 (16) d	Contained to Consents Royal Diles 4 000mm			Unit:	100.00 m
400(10/0	Cast-in-place Concrete Bored Piles 6800mm	 	 	 OHIL.	(017,017 111

		1				Ur	nit Rate	!	!			Amou	nt			į
Item No.	Description	Unit	Quantity		Cat	npopent (%)		Total			Component (PP)			Total	Remarks
	·	1 1		Lab,	Mat	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1,002	Foreman	md	5, 94	100, 0%	0.0%	0.0%		100, 0%	566.00	3, 362, 04	0.00		0.00	3, 362, 04	3, 362, 04	Ì
L019	Skilled Labor	md	14. 28			0.0%	0.0%	100,0%	403, 80	5, 754. 84			0.00	5, 754, 84	5, 754. 84	
L020	Unskilled Labor	and	12.61	100, 0%	0.0%	0.0%	0.0%	100, 0%	314.00	3, 959, 54	0.00	0, 20	0, 00	3, 959. 54	3, 959, 54	
₩0205	Concrete (Class AA), 28MPa, max lagg, 25mm)	L'an	54. 29	2.3%	81.4%	16.3%	57.6%	42.4%	1, 780.00	2, 242, 54	78, 680. 24	15, 713, 42	55, 703, 67	40, 932, 53	96, 636, 20	Loss 8.0%
₩0232	Concrete Pauring by Pump Vehicle (reinforced concrete)	тЗ	50, 27	15, 5%	0, 2%	84.3%	45. 2%	54.8%	257, 00	2, 007. 06	25, 33	10, 887, 00	5, 834, 35	7, 085, 04	12, 919. 39	}
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3, 137, 00	15.2%	77.0%	7.8%	54,0%	46.0%	23, 38	11, 100. 38	56, 284, 85	5, 706, 86	39, 466. 03	33, 626, 07	73, 092. 10	
WO252	Reinforcement Grade 60, cutting, bending & assembly	kg	13, 975, 00	14, 5%	77. 9%	7.7%	54, 5%	45, 5%	24. 50	49, 518, 98	266, 601. 47		186, 533, 44	155, 854, 06	342, 387, 50	
Q0513-120	All Casing Excavator, & 1200max	br	36. 35	1,0%					6, 200, 00	2, 293, 95	9, 845. 65		124, 867, 88	100, 502, 12	225, 370, 00	
R0401-035	Crawler Crane, 31-35t	hr	32, 71	4.3%	9.8%				1,680.00	2, 362, 97	5, 385, 37		29, 076. 45	25, 876. 35	54, 952. 80	
Q0514-080	Hammer Grab, \$800	day	5. 59	0,0%	0.0%			33, 0%	5, 170, 00	9.00	0, 00	28, 900. 30	19, 351, 84	9, 548. 46	28, 900, 30	
Q0515-002	Hammer Crown, > ₫ 1200	day	5, 59	0,0%	0.0%			29. 3%	1, 920, 00	0.00	0.00	10, 732, 80	7, 588. 66	3, 144. 14	10, 732, 80	
Q0516~085	Casing Tube, \$800, L=5m	day	117. 90	0.0%	0,0%	100, 0%	68, 5%	31.5%	1,710,00	0.00	0.00	201,609.00	138, 148, 92	63, 160. 08	201, 609. 00	1
W0111	Disposal of Surplus Soil (backhoe loading)	m3	48. 80	8.1%	14.8%	77, 1%	51.5%	48.5%	93. 00	369. 65	669, 54	.,	2, 336, 09	2, 202. 31	4, 538, 40	
	Miscellaneous	LS	1.00	5.0%	30, 11%	65.0%	55, 0%	45.0%		1, 596. 32			17, 559, 55	14, 366. 90		3, 0%
	Total									84, 568, 28	427, 070, 40	584, 502, 68	626, 466, 87	469, 674, 49	1, 095, 141, 36	
	Components (%)		·			lI				7. 7%	39, 0%		57. 2%	42.8%	100.0%	
L	Unit Rate	ltr;		L		ا ــــــــــــــــــــــــــــــــــــ		لــــــا	<u>-</u>	818.66	4, 285, 74	5, <u>865. 60</u>	6, 286. 72	4, 713. 28	11, 000, 00	

Miscellaneous covers the cost for stand pipe, tremmy pipe, welder, vessel, slash tank, suction hose, water pump, etc.

Tc ≃ Tso + Te

To: Cycle time per pile
Tso: Preparation Time = 46.8+11.3xL2
Te: Excavation Time = \(\Sigma \) aixLi

278.10 min/pile 178.45 min/pile

99.66 min/pile

ai I.i aixl.i 8.30 9.250 76.78 N < 40 9. 20 | 1. 600 | 14. 72 10. 20 U. 800 8. 16 11. 650 99. 66 N > 40 Total

Excavator Operation Time TD1 = Tc - 16.4 Crawler Crane Operation Time TD2 = 0.9xTD1

D : Pile diameter L : Pile Length L2: Excavation depth Steel Casing Length T : Daily Operation hour

261.70 min/pile 235.53 min/pile 0.800 m 12.000 m 11,650 m 12.650 в 6.50 hr

400(19)a	Pile shoes for 400mm x 400mm Piles												lini t:	1.00 c	each	
						U.	nit Rate					Amou	nt		<u></u>	
Item No.	Description	Unit	Quantity		Cor	monent ((%)		Total			Component (PP)			Total	Kemarks
L				Lab,	Mat	Equip.	For.	l.oca]	(PP)	Lahor	Material	Equipment	Foreign	Local	(PP)	
1.009	Welder	md	0.05	100, 0%	0.0%	0.0%	0.0%	100, 0%	500. 00	25, 00	£1, 00	0.00	0.00	25. 00	25, 00	
	Skilled Labor	md	0.05	100.0%	0.0%	0,0%	0.0%	100.0%	403, 00	20. 15	0,00	0.00	0.00	20, 15	20. 15	
M02015	Structural Steel (Plates, SS400)	kg	11,99	0.0%	100.0%	0.0%	70.0%	30,0%	20, 20	0.00	242, 20	0, 00	169. 54	72. 66	242, 20	
M02002	Reinforcing Bars, Grade 60	kg	22, 70	0.0%	100.0%	0.0%	65.0%	35.0%	17. 00	0.00	385, 90	0.00	250, 84	125. 07	395, 90	
K0901-025	Welding Machine 250A	day	0.05	0.0%	39.8%	60.2%	58.6%	41.4%	588, 00	0, 00	11.70	17. 70	17. 22	12. 18	29. 40	
	Miscellaneous	LS	1, 00	10.0%	30.0%	60.0%	50, 0%	50.0%		1,41	4. 22	8, 43	7. 03	7. 03	14, 05	2, 0%
	Total	ΙΙ								46. 56	644, 02	26. 13	444, 63	272, 08	716, 70	
	Components (%)									6. 5%	89. 9%		fi2. 0%	38, 0%	100.0%	
	Unit Rate	cach								46, 57	644. 28	26. 14	444, 81	272. 19	717.00	

Unit Rate Miscellaneous covers the cost for steel cutters, acotylene gas, welding rods, wires, etc.

400 (19) b	Pile shoes for 450mm x 450mm Piles												Unit:	1, 00 ea	ach	
						U	nit Rate	3				Amou	nt			
Lem No.	Description	Unit	Quantity		Cor	mponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Eguip.	For.	Local	(PP)	l.abor_	Material	Equipment	Foreign	Local	(PP)	
1.009	Welder	md	0.05	100, 0%	0, 0%	0.0%	0. 0%	100.0%	500.00	25, 00	0.00	0, 00	0, 00	25.00	25, 00	,
L019	Skilled Labor	md	0.05	100, 0%	0.0%	0.0%	0.0%	100.0%	403, 00	20. 15	0, 00	0, 00	8,00	20. 15	20, 15	,
M02015	Structural Steel (Plates, SS400)	kg	11.99	0.0%	100.0%	U. 0%	70.0%	30.0%	20, 20	8.00	242. 20	u, oo (169, 54	72.66	242. 20	,
M02002	Reinforcing Bars, Grade 60	kg	22. 70	0,0%	100,0%	0.0%	65.0%	35, 0%	17.00	0, 00	385.90	0, 00	250. 84	135, 07	385, 90	ļ
R0901~025	Welding Machine 250A	day	0.05	0, 0%	39, 8%	60. 2%	58.6%	41.4%	588.00	0.00	11, 70	17. 70	17. 22	12. 18	29, 40	į
	Miscellancous	LS	1.00	10.0%	30. <u>0%</u>	60, 0%	50.0%	50.0%		1.41	4. 22	8. 43	7, 03	7, 03	14. 05	2.0%
	Total									46.56	644.02	26, 13	444. 63	272. 08	716, 70	
	Components (%)									6.5%	89.9%	3.6%	62, 0%	38.0%	100.0%	
	Unit Kate	each				<u> </u>				46, 57	644, 28	26, 14	444. 81	272. 19	717, 00	

Miscellaneous covers the cost for steel cutters, acctylene gas, welding rods, wires, etc.

400 (20) a	Splices for 400mm x 400mm Piles													100.00	each	
							nit kate	,					un t			
Item No.	Description	Unit	Quantity		Con	ропепі	(%)		Total			Component (PP)			[ota]	Remarks
	<u> </u>			Lab.	Mat.	Equip.	for.	Local	(PP)	Labor	Material	Equipment	l'oreign .	Local	(PP)	
L019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403, 00	403.00	0, 00	Q. 00	0, 00	403.00	403, 00	
W02011	Structural Steel (Round Bar, SS400)	kg }	5, 752, 40	0.0%	100.0%	0.0%	70.0%	30.0%	21.80	v. vo	125, 402, 32	0.00	87,781.62	37, 620, 76	125, 402, 32	, }
W0225	Grout (non-shrink)	m3	0.78	1.0%	96, 5%	2, 6%	61.3%	38.7%	3, 050, 00	22. 76	2, 294, 71	61.52	1, 457, 61	921.39	2, 379, 00	, ,
L	Miscellaneous	is	1.00	10, 0%	30.0%	60 <u>. 0%</u>	50.0%	50.0%	1	256, 37	769.11	1, 538, 21		1, 281, 84	2, 563. 6 <u>9</u>	2, 0%
	Total	$\perp \!\!\!\perp \!\!\!\perp \!\!\!\perp$								682. [3]	128, 466, 14	1, 599. 74	90 <u>, 52</u> 1. 08	40, 226, 93	130, 748, 01	
	Components (%)									0, 5%	98.3%	1.2%	69. 2%	30.8%	100.0%	
	Unit Rate	cach		T						6. B3	1, 287, 14	16.031	906.96	403 04	1.310.00	

Miscellaneous covers the cost for steel cutters, acetylene gas, welding rods, wires, etc.

400 (20) b	Splices for 450mm x 450mm Piles			_									Unit:		each	
	•	1				i	lnit Rat∉	;				Ana	nunt			
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
	<u></u>	1 1		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	l.ocal	(PP)	
	Skilled Labor	md	1.00	100,0%	0.0%	0.0%	0.0%	100, 0%	403, 00	403, 00	0.00	0, 00	0.00	403, 00	403.00	
M02811	Structural Steel (Round Bar, SS400)	kg	5, 762, 10	0.0%	100.0%	0, 0%	70,0%	30, 0%	21.80	0, 00	125, 613, 78	0.00	87, 929, 65	37, 684, 13	125, 613, 78	,
₩0225	Grout (non-shrink)	m3	0.82	1.0%	96.5%	2, 6%	61.3%	38.7%	3, 050, 00	23. 93	2, 412, 39	64.68	1, 532, 36	968, 64	2,501.00	:
L	Miscellaneous	LS	1.00	10, 0%	30.0%	60.0%	50.0%	50,0%		257. 04	771.11	1, 542, 21	l <u>, 2</u> 85. 18	1, 285. 18	2, 570, 36	2, 0%
	Total	L								683. 97	128, 797, 28	1, 606, 89	90, 747, 18	40, 340, 95	131, 088, 14	
	Components (%)									U. 5%	98.3%	1.2%	69. 2%	30, 8%	100.0%	
	Unit Rate	each								6, 84	1, 287. 11	16.06	906, 86	403.14	1, 310, 00	

Miscellancous covers the cost for steel cutters, acetylene gas, welding rods, wires, etc.

400 (21)	Static Pile Load Test for \$1500mm Bore	d Pile	5										Unit:	1.00 e	ach	
						1	nit Rate					Amou	int			
ltem No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	(.ocal	(PP)	l.abor	Material	Equipment	Foreign	<u>L</u> oçal	(PP)	
1.002	Foreman	md	0, 50	100.0%	0.0%	0.0%	0, 0%	100,0%	566,00	283, 00	0.00	0,00	0,00	283.00	283.00	
1.019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	403, 00	403, 00	0.00	0, 00	0, 00	403, 00	103.00	
	Static Pile Load Test for \$41500mm Bored Piles	each	¬ 1.00	30,0%	15.0%	55.0%	45.0%	55.0%	92, 700. 00	27, 810. 00	13, 905, 00	50, 985. 00	41, 715. 00	50, 985, 00	92, 700, 00	
	Miscellaneous	LS	1.00	30.0%	10.0%	60.0%	40.0%	60.0%		8, 404, 74	2, 801, 58	16, 809, 48	£1_206. 32	₹6, 809, 48	28, 015, 80	30.0%
	Total									36, 900, 74	16, 706, 58	67, 794 <u>. 48</u>	52, 921, 32	68, 480, 48	121, 401. 80	
	Components (%)	1								30. 4%	13, 8%	55. B%	43. 6%	56, 4%	100.0%	
	Unit Rate	each								36, 778, 61	16, 651. 29	67, 570, 10	52, 746, 17	68, 253, 83	121,000.00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400 (23) a	High Strain Dynamic Pile Test for \$100	Domm Bo	ored Piles										Unit:	1.00	each	
		I I					<u>lnj</u> t Rat	e				Amor	int			
Item No.	Description	linit	Quantity		Con	panent	(%)		Total			Companent (PP)			Total	Remarks
<u> </u>				Lab.	Mat.	Equip.	For.	Local	(PP)	sbor	Material	Eguipment	Foreign	Local	(PP)	
1.002	Foreman	md	0.50	100.0%	0.0%	0.0%	0.0%	100.0%	566, 00	283, 00	0.00	0.80	0. 00	283, 00	283, 00	
L019	Skilled Labor	md	t, ac	100,0%	0.0%	0.0%	0.0%	100.0%	403, 00	403,00	0,00	0.00	0, 00	403, 90	403.00	
,	Dynamic Pile Load Test for ø1000mm Bored Piles	each	1. 00	30,0%	15.0%	55. O%	45, 0%	55.0%	94, 000, 00	28, 200. 00	14, 100, 00	51, 700. 00	42, 300, 00	51, 700. 80	94, 000. 00	
	Niscellaneous	l.S	1,00	30,0%	10.0%	60.0%	40.0%	60.0%		<u>8, 521. 74</u>	2, 840, 58	17, 043, 48	11, 362, 32	17, 043, 48	28, 405, 80	30.0%
	Total	L					I			37, 407, 74	16, 940, 58	68, 743, 48	53, 662, 32	69, 429, 48	123, 091, 80	
	Components (%)									30. 4%	13.8%	55.8%	43. 6%	56. 4%	100.0%	
	Unit Rate	each			L					37, 379, 84	16, 927, 95	68, 692, 21	53, 622, 30	69, 377, 70	123, 000, 00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400 (23) b	High Strain Dynamic Pile Test for # 12	Olem Bo	red Piles										Unit:	1,00	each	
1	1	1 1				u l	nit Rate	<u>, </u>				Amou	in t			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
		\perp		Lab	Mat.	Equip.	For.		(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0. 50	100, 0%	0,0%	0.0%	0.0%		566.00	283, 00	0, 00	0.00	U. 00	283.00	283, 00	
L019	Skilled Labor	nd	1.00	100,0%	0.0%	0.0%	0.0%	100.0%	403, DO	403.00	0.00	0.00	0.00	403, 00	403.00	
	Dynamic Pile Load Test for \$1500mm Bored Piles	each	1.00	30, 0%	15.0%	55. 0%	45, 0%	55, 0%	96, 000. 80	28, 800, 00	14, 400, 00	52, 800. 00	43, 200, 00	52, 800, 00	96, 000, 00	ļ
	Miscellaneous	LS	1,00	30. <u>0%</u>	10.0%	60.0%	40.0%	60,0%		8, 701, 74	2, 900, 58	17, 403. 48	11,602.32	17, 403, 48	29, 005, 80	30.0%
	Total									38, 187, 74	17, 300, 58	70, 203, 48	54, 802, 32	70, 889, 48	125, 691, 80	
	Components (%)									30, 4%	13.8%	55. 9%	43, 6%	56. 4%	100.0%	
	Unit Rate	each								38, 281, 38	17, 343, 00	70, 375. 62	54, 936, 70	71, 063, 30	126, 000, 00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400 (23) c	High Strain Dynamic Pile Test for \$800	mm Bor	ed Piles										Unit:	1.00	each	
						Ū	nit Rate					Amo	un t			
item No.	Description	Unit	Quantity		Сон	mponent	(%)		Tota)			Component (PP)			Total	Remarks
	<u>'</u>	!		Lab.	Mat.	Equip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0, 50	100.0%	0.0%	0, 0%	0.0%	100,0%	586.00	283, 00	0, 80	0.00	11, 00	283, 00	283. 00	
1.019	Skilled Labor	md	£. 00	100, 0%	0,0%	0.0%	0.0%	100.0%	493, 00	403, 00	0, 00	0, 00	0.00	403.00	403.00	i
	Dynamic Pile Load Test for \$400mm Bored Piles	each	1.00	30.0%	15, 0%	55.0%	45, 0%	55, 0%	92, 000. 00	27, 600, 00	13, 800, 00	1 ' 1	41, 400, 00	50, 6 00. 00	92, 000, 00	
i	Miscellaneous	LS_	1,00	30.0%	10, 0%	60,0%	40.0%	60, 0%		8, 341, 74	2, <u>780. 58</u>	16, 683, 48	11, 122, 32	16, 683. 48	27, 805, 80	
	Total									36, 627, 74	16, 580, 58	67, 293, 48	52, 522. 32	67, 969, 48	120, 491, 80	
	Components (%)									30. 4%	13, 8%	55. 8%	43, 6%	56, 4%	100.0%	
	Unit Rate	each								36, 478, 24	16, 512. 90	67, 008, 86	52, 307, 94	67, 692, 06	120, 000, 00	

Unit Rate each
Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

SPL 400(24)	Pile Integrity Test for Bored Piles of	variou	s diameter										Unit:	1,00	each	
	T					[]	nit Rate	<u> </u>				Апоц	int			
Item No.	Description	Unit	Quantity		Car	nponent	(%)		Total			Component (PP)			Total	Remarks
		l		Lab.	Mat.	Equip.	For.	Local	(PP)[l.abor	Material	Equipment_	Foreign	Local	(PP)	
1.002	Foreman	md	0.50	100, 0%	0.0%	0.0%	0.0%	100, 0%	566.00	283, 00	D, 00		0,00	283.00	283, 00	1
1.019	Skilled Labor	md	1.00	100.0%	0.0%	0.0%	0,0%	100,0%	403.00	403.00	0.00	0,00	0, 00	103, 00	403, 00	
	Dynamic Pilc Load Test for \$1500mm Bored Piles	each	1, 00	30.0%	15, 0%	55, 0%	45, 0%	55, 0%	125, 000. 00	37, 500, 00	18, 750. 00	· '	56, 250, 00		125, 000, 00	
	Miscellaneous	LS	1.00	30.0%	10,0%	60. U%	40.0%	60.0%		11, 311, 74	3, 770, 58		15, 082. 32		37, 705, 80	30.0%
	Total									49, 497, 74	22, 520, 58	91, 373, 48	71, 332, 32	92, 059, 48	163, 391, 80	
	Components (%)									30, 3%			43. 7%	56.3%	100.0%	
	Unit Rate	each								49, 379, 05	22, 466, 58	91, 151.37	71, 161, 27	91, 838, 73	163, 000, 00	

Miscellaneous covers the cost for overhead, mobilization, etc. of subcontractor, etc.

40 <u>1</u> (1) a	Concrete Railing Type A (Concrete Posts	and F	recast Beams)										Unit:	10, 00	m	
						U	nit Rate	2				Λmoι	int			
Item No.	Description	Unit	Quantity			monent.	(%)		'fotal			Component (PP)			Total	Romarks
·		į į		Lab.	Mat	Equip.	For,	l.ocal	(PP)	Lahor	Material	Equipment .	Foreign	Local	(PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	1. 13	2. 5%	79, 7%	17.7%	56. 7%	43. 3%	1, 630, 00	46. 81	1, 468, 44	326, 66	1, 044. 25	797, 65	1,841,90	Loss 2.0%
WQ232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	1.11	15, 6%	0, 2%	84, 3%	45. 2%	54. 8%	257. 00	14. 32	0, 56	240, 39	128. 83	156, 44	285. 27	
W0237	Concrete Curing (reinforced concrete)	m3	1.11	74.6%	7,6%	17, 8%	14.0%	86.0%	4, 21	3, 49	0, 36	0, 83	0.65	4, 02	4.67	ļ
W0241	Formwork (reinforced concrete H4m)	m2	17, 00	59, 3%	39, 9%	0.8%	2.9%	97, 1%	224. 00	2, 257. 61	1, 520, 52	29. 87	111. 12	3, 696, 88	3, 808, 00	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	189. 90	15, 2%	77, 0%	7.8%	54.0%	46, 0%	23, 30	671. 97	3, 407. 23	345. 47	2, 389, 10	2, 035. 57	4, 424, 67	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	81.90	14.5%	77. 9%	7. 7%	54.5%	45.5%	24, 50	290. 20	1, 562. 41	153, 94	1, 093. 17	913, 38	2, 006. 55	
	Miscellangous	LS	J., 00		_ [[0.00	0.00	0, 00	0.00	U. 00	0.00	0.0%
	Total									3, 314, 40	7, 959, 51	1,097.15	4, 767: 12	7, 603. 94	12, 371, 06	
	Components (%)									26, 8%	61.3%	8.9%	38.5%	61.5%	100.0%	
	Unit Rate	m								332, 21	797.81	109. 97	477, 83	762. 17	1, 246, 00	

401(1)b	Concrete Railing Type B (Concrete Wall	Type)					_						Unit:	180, 00 m		
						B	nit Rate					Amou	nt			
Item No.	Description	Unit	Quantity		Com	ponent l	(%)		Total			Component (PP)			Total	Kemarks
L	<u> </u>			Lab.	Mat.	Equip.		Local	(PP)	Lahor_	Material	Equipment	Foreign	Local	(PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	44. 27	2.5%	79, 7%	17. 7%	56. 7%	43.3%	1,630.00	1,833.84	57, 528, 89	12, 797. 38	40, 910, 56	31, 249, 54	72, 160, 10	loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	43, 40	15.5%	0, 2%	84, 3%	45, 2%	54.8%	257.00	1,732.77	21.87	9, 399. 16	5, 037, 02	6, 116, 78	11, 153, 80	
W0237	Concrete Curing (reinforced concrete)	m3	43. 40	74.6%	7, 6%	17, 8%	14.0%	86.0%	4. 21	136. 35	13.91	32. 45	25, 50	157. 21	182.71	i
W0241	Formwork (reinforced concrete IK4m)	m2	340, 90	59, 3%	39, 9%	0.8%	2.9%	97, 1%	224.00	45, 271, 77	30, 490. 92	598, 91	2, 228, 27	74, 133, 33	76, 361, 60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3, 786. 60	15, 2%	77. 0%	7. 8%	54.0%	46.0%	23. 30	13, 398, 66	67, 938. 35	6,888,44	47, 637, 27	40, 588. 18	88, 225, 45	
	Miscellaneous	LS	1.00:							_8,00	0, 00		0.00	n, 00	0.00	0.0%
	Total									62, 373, 39	155, 993, 93	29, 716, 34	95, 838. 62	152, 245, 04	248, 083, 66	
	Components (%)	\Box								25. 1%	62. 9%		38.6%	61.4%	100, 0%	
	Unit Rate	m								346. 96	867, 74	165, 30	533, 12	846, 88	1, 380, 00	

401 (2) a	Steel Railing Type A for Angat and Tala	vera E	iridge, and App	reach of	' Pampan		go nit Rato					Amou	Մnit:	30, 00	n	
Item No.	Description	Unit	Quantity		Соп	ponent			Total			Component (PP)		 -	Total	Remarks
L	<u> </u>	1 1		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Haterial	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0. 18	100, 0%	0.0%	0.0%	0.0%	100, 0%	566, 00	271.68	0, 00	0.00	0.00	271.68	271. 68	
L009	Wolder	md	0, 48	100.0%	0.0%	0.0%	0,0%	100, 0%	500, 80	240, 00	0.00	0, 00	0.00	240, 00	240. 00	
£019	Skilled Labor	md	1. 44	100.0%	0.0%	0, 0%	0.0%	100.0%	403.00	580. 32	0, 00	0.00	0, 00	580. 32	580. 32	
1.020	Unskilled Labor	nd l	0.96	100,0%	0.0%	0.0%	0,0%	100.0%	314.00	301,44	0.00	0.00	0.03	301.44	301.44	
M02015	Structural Steel (Plates, SS400)	kg	301.50	0,0%	100, 0%	0.0%	70.0%	30.0%	20, 20	0.00	6, 090, 30	0.00	4, 263, 21	1, 827, 09	6, 090, 30	
MO2031	Steel Pipe	kg	1, 342. 50	U. 0%	100, 0%	0.0%	70.0%	30,0%	23, 90	0, 00	32, 085, 75	0.00	22, 460, 03	9, 625, 73.	32,085.75	
MO2011	Structural Steel (Round Bar, \$\$400)	kg	35, 50	0.0%	100.0%	0.0%	70, 0%	30.0%	21.80	0, 00	773, 90	0, 00	541. 73	232. 17	773. 90	
M06003	Zinc Rich Primer for Steel	l kg	4.02	0.0%	100,0%	0.0%	65.0%	35.0%	374. 00	0.00	1, 503. 48	0.00	977, 26	526, 22	1, 503, 48	
M06011	Rustproof Lead Paint for Steel	kg	6.71	0.0%	100.0%	0.0%	65.0%	35, 0%	209.00	0, 60	1, 402. 39	0, 00	911, 55	490. 84	1, 402. 39	
M06022	Epoxy Resin Paint for Steel	kg	4.56	0.0%	100.0%	0.0%	65.0%	35.0%	496, 00	0.00	2, 261, 76	0.00	1, 470, 14	791, 62	2, 261, 76	
R0901-025	Welding Machine 250A	day	0.48	0,0%	39.8%	60. 2%	58, 6%	41.4%	588.00	0, 60	112. 33	169, 91	165. 35	116, 89	282, 24	
R1001-200	Generator 151-200 kW	day	0, 48	0.0%	47,6%	52, 4%	59, 4%	40.6%	5, 280, 00	0.00	1, 286. 37	1, 328. 03	1, 505, 96	1, 028, 44	2, 534, 40	
R0402-0111	Truck Crane, Hydraulic 6-10t	br	2, 74	15.2%	9.3%	75.5%	47.0%	53.0%	485.00	201. 99	123. 59	1,003,32	625. 13	703. 77	1, 328. 90	
R0601-003	Dump Truck, 3.0-6.0 cu-yds (2.3-4.6m3)	hr	1, 54	13.5%	19.3%	67, 2%	49, 0%	51.0%	446.00	92, 72	132. 56	461, 56	336, 49	350.35	686, 84	
	Miscellaneous	LS	1.00	20.0%	20, 0%	60, 0%	50.0%	50.0%		3, 020. 60	3, 020, 60	9,061.81	7 <u>, 55 t</u> . 5 l	7, 551, 51	15, 103, 02	30.0%
	T 1	1 1								4 700 70	40 710 04	LA HOLLON	10 000 00	U.4 CDO 05	CE 44C 40	

4, 708. 76

7. 2% 156. 85

74. 4%

1,622,62

48, 713. 04

18.4%

400.54

40, 808. 37

1, 359. 31

62.4%

12, 024, 62

37.6%

820, 69

100.0%

2, 180, 00.

24, 638, 05

Unit Rate Miscellaneous covers the costs for fabricator's overhead, facilities, minor tools and materials, falseworks, etc.

01 (2) в	Stacl Railing Type B for Pampanga Main	Bridge											- Unit:	20, 35 m		
						Ua	nii Rate	· · · · ·				Amoun	11			·
item No.	Description	Unit	Quantity			ponent l	%)		Total			Component (PP)			Total	Remarks
		\bot		Lab.		Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	nd	0. 33		0, 0%	0.0%	0.0%		566, 00	186. 78	0. 00	0,00	0. 00	186, 78	186. 78	
L009	Welder	md	0, 33	100.0%	0.0%	0.0%	0, 0%	100.0%	500.00	165, 00	0.00	0,00	0, 00	165, 00	165.00	
1.019	Skilled Labor	[md [0, 98.	100.0%	0.0%	0, 0%	0.0%	100.0%	403, 00	394. 94	0.08	0, 00	0,00	394, 94	394. 94	
L020	Nnskilled Labor	md	0, 65	108.0%	0.0%	0.0%	0.0%	100, 0%	314.00	204.10	0.00	0, 00	8,00	204. 10	204.10	
M02015	Structural Steel (Plates, SS400)	kg	1, 068, 00		100.0%	0.0%	70, 0%	30.0%	20, 20	0.00	21, 573, 60	0.00	15, 101, 52	6, 472, 08	21, 573.60	
M02031	Steel Pipe	kg	312.70	0.0%	10, 0%	0.0%	70.0%	30.0%	23, 90	0. 00	7, 473. 53	0, 00	5, 231, 47	2, 242, 06	7, 473, 53	
M02011	Structural Steel (Round Bar, SS400)	kg	37. 90		100, 0%	0.0%	70, 0%	30, 0%	21.80	0, 00	826. 22	0.00	578, 35	247. 87	826, 22	
M06003	Zinc Rich Primer for Steel	kg	6.78	0.0%	100.0%	0.0%	65, 0%	35.0%	374.00	0.00	2, 535, 72	0.00	1, 648, 22	887, 50	2, 535, 72	
MO6011	Rustproof Lead Paint for Steel	kg	11, 30		100.0%	0.0%	65, 0%	35.0%	209, 00]	0.00	2, 361, 70	0, 00	1, 535. 11	826.60	2, 361, 70	
MO6022	Epoxy Resin Paint for Steel	kg	7.68		100,0%	0.0%	65, 0%	35, 0%	496.00	0.00	3, 809. 28	0, 00	2, 476, 03	1, 333, 25	3, 809, 28	
R0901-025	Welding Machine 250A	day	0, 33		39.8%	60.2%	58.6%	41.4%	588,00	0.00	77, 23	116.81	113,68	80, 36	194.04	
R1001-200	Generator 151-200 kW	day	0.33		47.6%	52, 4%	59. 4%	40.6%	5, 280, 00	0. 00	829. 38	913.02	1, 035, 35	707, 05	1, 742, 40	
R0402-010	Truck Crane, Hydraulic 6-10t	br	1, 88	15, 2%	9, 3%	75.5%	47.0%	53, 0%	485, 00	138, 59	84, 80	688.41	428, 92	482. 88	911,80	
R0601-003	Dump Truck, 3.0-6.0 cu-vds (2.3-4.6m3)	hr	1, 30		19, 3%	67, 2%	49, 0%	51.0%	446, 00	78. 27	111.90	389. 63	284, 05	295, 75	579. 80	
	Miscellaneous	LS	1.00					1		0.00	0.00	0.00	0,00	0.00	12, 987, 67	30.0%
	Total			L						1, 167. 69	19, 683, 36	2, 107. 86	28, 432, 70	14, 526, 21	55, 846, 58	
	Components (%)	1								2, 1%	71.1%	3.8%	50.9%	26.0%	100, 0%	
	Unit Rate	_ m								57, 29	1, 946. 98	_103, 42	1, 394, 99	712.70	2, 740, 00	

Miscellaneous covers the costs for fabricator's overhead, facilities, minor tools and materials, falseworks, etc.

SPL 401(3)a	Bridge Name Plate, 1000 x 600 mm for A	ngat Br	idge					_					Unit:	10,00 e	ach	
		1 1				U	nit Rate					Amour	ıt.			
Item No,	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab,		Equip.	For.	Local	(PP)_	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md l	0.43	100,0%	0.0%	0.0%	0.0%	100,0%	566, 00	243. 38	0, 00	0.00	0.00	243. 38	243. 38	
L019	Skilled Labor	[md]	1.60	100.0%	0.0%	0.0%	0.0%	100,0%	403, 00	644. 80	0.00	0,00	O, OH	644.80	644, 80	i
1.020	Unskilled Labor) md i	1, 60	100.0%	0.0%	D, 0%	0.0%	100.0%	314,00	502, 40	0.00	0.00	0, 00	502, 40	502, 40	ì
M02501	Brass Plate	kg	1, 068, 00	0.0%	100, 8%	0,0%	70.0%	30.0%	228, 00	0.00	243, 504. 00	0.00	170, 452, 80	73, 051, 20	243, 504, 00	
W0225	Grout (non-shrink)	m3	0.09	1.0%	96, 5%	2.6%	61.3%	38.7%	3, 050, 00	2. 63	264. 77	7. 10	168, 19	106. 31	274, 50	
R0602~002	Cargo truck 2.0-5.0t	hr	2. 53	14.4%	13, 7%	71.9%	48, 0%	52.0%	570.00	207, 66	197, 67	1, 036, 87	691, 77	750, 33	1, 442, 10	
	Miscellancous	LS	1.00	20.0%	40.0%	40.0%	50,0%	50.0%		14, 796, 67	29, 593, 34	29, 593, 34	36, 991, 68	36, 991, 68	73, 983, 35	30, 0%
	Total									16, 397, 54	273, 559. 68	30, 637, 31	208, 304, 44	112, 290, 10	320, 594, 53	
	Components (%)] [5.1%	85. 3%	9. 6%	65, 0%	35. 0%	100.0%	
	Unit Kate	each								1,641.83	27, 390, 57	3, 067, 61	20, 856, 79	11, 243, 21	32, 100, 00	

Miscellaneous covers the cost for overhead of fabricators, anchors, fixtures, carving, chipping, cleaning, minor tools, etc.

Plate Size = Unit Weight =

1,000 x 600 x 20 mm

8,900 kg/m3

Total

Components (%)

SPL 401(3)b	Bridge Name Plate, 1000 x 600 mm for Pa	mpange	Bridge										Unit:	10.0 <u>0</u>	each	
						Ut	nit Rate	3				Атои	nt			
Item No.	Description	Unit	Quantily		Con	popent ((%)		Total			Component (PP)			Total	Remarks
L				Lab.	Mai,	Equip.	For.	Local	(99)	l.abor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0.43	100.0%	0, 0%	0.0%	0, 0%	100, 0%	566.00	243, 38	0, 00	0, 90	0. 00	243, 38	243, 38	
1,019	Skilled Labor	md	1. 60	100. B%	0.0%	0.0%	0.0%	100, 0%	403, 00	644. 80	0, 00		0.00	644, 80	644, 80	
1.020	Unskilled Labor	ba	1, 60	100.0%	0.0%	0,0%	0.4%	100,0%	314.00	502, 40	0.00	0.00	0, 00	502, 40	502, 40	
MO25#1	Brass Plate	kg	1, 068, 00	O. 49%	100.0%	0.0%	70,0%	30.0%	228, 00	0, 00	243, 504, 00	0, 08	170, 452, 80	73, 051, 20	243, 504, 00	
W0225	Grout (non-shrink)	m3	0.09	1.0%	96.5%	2.6%]	61.3%	38.7%	3, 050, 00	2, 63	264, 77		168. 19	106, 31	274, 50	
R0602-002	Cargo truck 2,0-5.0t	hr	2, 53,	14.4%	13.7%	71.9%	48.0%	52.0%	570, 00	207. 66	197, 57		691, 77	750, 33		
	Miscellaneous	LS	1, 00	20.0%	40.0%	40.0%	50,0%	50, 0%		14, 796, 67	29, 593, 34		36, 991, 68	36, 991, 68		30, 0%
	Total									16, 397, 54	273, 559. 68	30, 637, 31	208, 304. 44	112, 290. 10	320, 594, 53	
	Components (%)									5. 1%	85, 3%	9.6%	65.0%	35.0%	100, 0%	<u> </u>

Unit Rate Miscellaneous covers the cost for overhead of Tabricators, anchors, Fixtures, carving, chipping, cleaning, minor tools, etc.

Plate Size = 1,000 x 600 x 20 mm

Plate Size = Unit Weight =

8,900 kg/m3

SPL 401 (3) c	Bridge Name Plate, 1000 x 600 mm for Te	lavers	Bridgo										Unit:	[8, 0 <u>0</u> ea	ach	
						_ U	nit Rate	3				Amou	nt			
Item No.	Description	Unit	Quantity		Соп	ponent -	(%)		Total			Component (PP)			Total	Remarks
	<u>L</u>			l.ab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1,002	Foreman	md	0. 13	100.0%	0.0%	0.0%	0.0%	100, 0%	566, 00	243. 38	0, 00	0,00	0,00	243, 38	243. 38	
1.019	Skilled Labor	md	1, 60	100,0%	0.0%	0.0%		100.0%	403.00	644. 80	0.00	0.00	0,00	644. 80	644, 80	
1.020	Unskilled Labor	md 1	1.60	100,0%	0.0%	0.0%	0.0%	100.0%	314.00	502. 40	0, 00	9, 00	0.00	502, 40	502, 40	į.
M02501	Brass Plate	kg	1, 068, 00	0.0%	100.0%	0.0%	70.0%	30.0%	228. 00	0.00	243, 504. 00	0.00	170, 452, 80	73, 051. 20	243, 504, 00	
W0225	Grout (non-shrink)	m3	0.09	1.0%	96, 5%	2.6%	61.3%	38.7%	3, 650, 00	2. 63	264. 77	7, 10	168. 19	t06, 31	274. 50	
R0602-002	Cargo truck 2.0-5.0t	hr	2. 53	14, 4%	13, 7%	71.9%	48.0%	52.0%	570.00	207. 66	197. 57	1, 036, 87	691, 77	750, 33	1, 142. 10	
	Miscellaneous	LS	1, 80	20,0%	40.0%	40.0%	50.0%	50.0%		14, 796. 67	29, 593. 34		36, 991. 68	36, 991, 68	73, 983, 35	30.0%
	Total]_]	-							16, 397, 54	273, 559, 68	30, 637, 31	208, 304, 44	112, 290. [0]	320, 594, 53	
	Components (%)									5. 1%		9.6%	65.0%	35. 0 <u>%</u>	100, 0%	
	Unit Rate	each								1,641,83	27, 390, 57	3, 067, 61	20, 856, 79	11, 243, 21	32, 100, 00	

Miscellaneous covers the cost for everhead of fabricators, anchors, fixtures, carving, chimping, cleaning, minor tools, etc.

Plate Size = 1,000 x 600 x 20 mm

Unit Weight = 8,900 kg/m3

SPL 401 (3) d	Bridge Name Plate, 1000 x 600 mm fo	r Intercha	nge Ramp										Unit	10.00	each	
	· · · · · · · · · · · · · · · · · · ·					t/	nit Rate					Amou	nt			
Item No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
	<u> </u>	1 1		tab.	Mat.	Equip.	For.	1.ocal	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md	0, 43	100.0%	0.0%	0,0%	O. 0%	100.0%	566.00	243, 38	0,00	0, 00	0.00	243, 38	243.38	
L019	Skilled Labor	md	1.60	100, 0%	0.0%	0.0%	0.0%	100.0%	403.00	644, 80	0,00	0.00	0.00	644.80	644, 80	
L020	Unskilled Labor	md	1.60	100,0%	0.0%	0.0%	0, 4%	100,0%	314.00	502, 40	0.00	0.00	0.00	502, 40	502. 40	
MO2501	Bross Plate	kg	1, 068. 00	0.0%	100.0%	0,0%	70.0%	30.0%	228, 00	0.00	243, 504, 00	0.00	170, 452, 80	73, 051, 20	243, 504. 00	
₩0225	Grout (non-shrink)	п3	0.09	1, 0%	96.5%	2.6%	61.3%	39. 7%	3, 050, 00	2, 63	264. 77	7. 10	168, 19	106.31	274, 50	
R0602-002	Cargo truck 2, 0-5, 0t	hr	2, 53	14.4%	13, 7%	71.9%	48,0%	52.0%	570.00	207. 66	197, 57	1, 036, 87	691.77	750, 33	1, 442. 10	
	Miscellaneous	LS	1.00	20, 0%	40,0%	40, 0%	50.0%	50.0%		14, 796, 67	29, 593, 34	29, 593, 34	36, 991, 68	36, 991. 68	73, 983, 35	30, 0%
	Total						Ξ.			16, 397, 54	273, 559. 68	30, 637. 31	208, 304, 44	112, 290, 10	320, 594, 53	
	Components (%)									5. 1%	85. 3%	9. 6%	65, 11%	35.0%	100.0%	
	Unit Ratu	aach						- 1		1 841 93	27 280 57	3 067 81	20 856 79	11 242 21	39 100 003	

thit Rate each

Miscellaneous covers the cost for overhead of fabricaturs, anchors, fixtures, carving, chimping, cleaning, minor tools, etc.

Plate Size = 1.000 x 600 x 20 mm

Unit Weight = 8,900 km/m3

403 (3)	Structural Steel for Pampanga River B	ridge,	furníshed and !	<u>føbricat</u>	ad								Unil:	1, 707, 860, 00 1	g	· · · · · · · · · · · · · · · · · · ·
						(1)	nit Rate					Amou	nt			
I tem No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Component (PP)			Total	Romarks
1	· ·	1		Lab.	Mat.	Equip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	320. 47	100.0%	0.0%	0, 0%	0.0%	L00, 0%	566, 00	181, 386, 02	0.00	0.00	0.00	181, 386, 02	181, 386, 02	
L009	Welder	md	1, 281. 90	100,0%	0.0%	0.0%	0.0%	100,0%	500, 00	640, 950, 00	0.00	0. 00	0.00	640, 950, 00	640, 950. 00	
1.010	Painter	mď	0, 00	100.0%	0.0%	0.0%	0, 0%	L00, 0%	440.00	0,00	0, 00	0.00	0. 00	0.00	0, 00	
1,019	Skilled Labor	md	1, 922, 85	100.0%	0.0%	0.0%	0.0%	100.0%	403, 00	774, 908, 55	0.00	0, 00	0.00	774, 908, 55	774, 908. 55	
M02017	Structural Steel (Plates SMA490W)	kg	1, 844, 488, 80	0.0%	100.0%	0.0%	75.0%	25, 0%	45.00	0, 00	83, 001, 996, 00	0.00	62, 251, 497, 00	20, 750, 499, 00	83, 001, 996, 00	Loss 8.0%
M02072	High Tension Bolt M20	each	85, 400, 00	0.0%	100.0%	0.0%	70.0%	30.0%	29, 20	0.00	2, 493, 680, 00	0.00	1, 745, 576, 00	748, 104, 90	2, 493, 680, 00)
M06001	Etching Primer for Steel	kg	0.00	0.0%	100,0%	0,0%	65.0%	35.0%	274.00	0, 00	0.00	0, 00	0.00	0, 00	0.00	loss 3,0%
M06011	Rustproof Lead Paint for Steel	kg	0,00	0,0%	100.0%	0.0%	65.0%	35.0%	209.00	0, 00	0.00	0.00	8, 00	0.00	0, 00	Loss 3, 0%
MO6011	Rustproof Lead Paint for Steel	kg	0,00	0.0%	100.0%	0.0%	65, 0%	35, 0%	209, 00	0.00	0.00	ü. 00	0, 00	0.00	0.00	Loss 3, 0%
R0901~050	Welding Machine 500A	day	1, 281. 90	0,0%	60.4%	39.6%	60.6%	39, 4%	1, 470, 00	0, 00	1, 138, 173, 37	746, 219, 63	1, 142, 632, 84	741, 760, 16	1, 884, 393, 00	ĺ

3, 080, 0n

1,670.00

7, 426, 00

68, 598, 36

2 7%

1, 821, 839, 01

3, 495, 107, 93

12, 995, 51

193, 158, 53

10, 931, 034, 03

97, 771, 037, 44

288, 995, 29

20.6%

15, 38

1, 543, 463, 01

23, 683, 907. 07

26, 262, 585, 00

165, 548, 11

962, 294, 12

66, 23

49, 40

18, 218, 390, 05

84, 485, 938, 13

143, 868, 69

842, 925, 78

33.89

25.2

18, 218, 390, 05

43, 042, 792, 25

309, 416, 80

100.0%

74, 70

40.0%

1,805,219,90

36, 436, 780. 11

127, 528, 730, 38

Unit Rate kg Miscellaneous covers the cost for overhead & facilities of fabricators, electricity and fuel consumption, welding rods, acetylene gas. etc. Haulage time = $2 \times 1./V + a =$ Total Steel Weight L 707 86 t 10.76 hr/tria Welding Length 3.19 m/t a: Loading Time = L 00 hr $y = \alpha \cdot (0.013 \cdot 1, +6.0), (9 \le y \le 17)$ L : Haulage Distance = 122,00 km y : Gaily Welding Capacity V : Traveling Speed = 25.00 km/hr 17,00 m/day

3, 8%

5.0%

4.2%

10.7%

30.0%

93, 4%

85. 5%

65.0%

53.5%

53, 3%

50.0%

16, 5%

46 7%

50, 0%

5, 448, 07 m L: Welding Length α: Coefficient 1.00 Paint Area 8,54 m2/t 0.130 kg/m^2 Primer 0.170 kg/m2 Rustproof-1

hr

hr

18

100, 46

1.00

0.170 kg/m2

1,080.97

403 (5) 1, 707, 860, 00 kg Structural Steel for Pampanga River Bridge, erected Unit: Unit Rate Amoun t Component (%) Component (PP) ltem No. Description Unit Quantity Total Total Remarks Lab. Local (PP) Labor Material Foreign Local (PP) Mat. Equip. For. Equipment Ground Assembly of Structural Steel 11.4% 172, 385, 97 46, 266, 68 1, 506, 960, 00 W0501 1, 196, 00 3, 1% 85. 5% 48, 2% 51,8% 1, 260, 00 1, 288, 307, 35 727, 029, 21 779, 930, 79 Bridge Members Erection of Structural Steel Bridge W0502 t 1,707.90 10.9% 4, 8% 84. 4% 48, 4% 51.6% 1, 290.00 239, 489, 81 105, 709, 18 1,858,992.01 1,065,693,53 1, 137, 497, 47 2, 203, 191, 00 Members Bolting of Structural Steel Bridge 1, 111, 005, 32 1, 191, 413, 60 W0503 27, 326, 00 787, 784, 92 403, 628, 68 4,4% 93.3% 66. 1% 33, 9% 43, 60 52, 914, 12, 27, 491. 16 each 2. 3% Members Finish Painting of Structural Steel m2 W0504 0,00 42.1% 48.8% 63.7% 132, 00: 0.00 0, 00 0.00 0.00 0.00 0.00 9. 1% 36.3% Bridge Members W0505 Temporary Bent for Steel Bridge Erection 556, 70 4.5% 91.2% 48, 3% 51, 7% 16, 000, 00 401, 564, 48 8, 126, 611, 60 379, 023, 92 4, 303, 459, 65 4, 603, 740, 35 8, 907, 200, 00 4 3% 481, 997, 47 W0506 Site Welding for Steel Bridge 446, 50 23, 4% 34, 6% 42, 0% 44. 5% 55, 5% 3, 120, 00 325, 635, 25 585, 447, 28 619, 321, 12 773, 758, 88 1, 393, 080, 00 2, 052, 249. <u>02</u> 1.00 0.0% 35, 1% 65, 0% 55.0% 45.0% 0,00 , 596, 193, 68 2, 964, 359, 70 2, 508, 304, 36 4, 560, 553, 38 30.0% Miscellaneous 1, 190, 989, 63 11, 467, 783, 93 7, 103, 624, 42 10, 011, 592, 78 9, 750, 805, 20 19, 762, 397, 98 Total 6.0% 58.0% 50.7% 100.0% Components (%) 35. 9% 49, 3% Unit Kate 0, 70 6. 73 5. 88 11,60

Miscellaneous covers the cost for temporary scaffolding, supports, safety measures, etc.

13 (8) a						ţj	nit Rate	,				Алоиг	nt			
Item No.	Description	Unit	Quantity		Cor	ponent	(X)		Total			Component (PP)			Total	Remarks
_	<u> </u>	\		Lab.	Mat.	Equip.	For,	Local	(PP <u>)</u>	Labor	Material	<u>Equipment</u>	Foreign	Local	(PP)	
L002	For email	md	0, 41	100.0%	0.0%	0, 0%	0, 0%	100, 0%	566. 00	232.06	0.00	0,00	0.00	232, 06	232.06	
L019	Skilled Labor	nd [l. 64	100.0%	0,0%	0,0%	0.0%	100,0%	403, 00	860. 92	0.00	Đ. 00)	a. oo)	660. 92	660. 92	
1,020	Unskilled Labor	hm (0, 41	100, 0%	0,0%	0.0%	0.0%	100,0%	314.00	128. 74	0, 00	8.00	0.00	128, 74	128, 74	
M09104	Bearing Shoe (rubber enclosed type), 250t	each	1.00	п. 0%	100,0%	0.0%	70, a%	30, 0%	291, 000. 00	0, 00	291, 000, 00	0, 00	203, 700, 60	87, 300, 00	291, 000, 00	
R0402-025	Truck Crane, Mydraulic 21-25t] hr]	1. 17	5,5%	6.8%	87.7%	52, 0%	48.0%	1, 330, 00	85, 59	105, 81	1, 364, 70	808, 57	747, 53	1, 556, 10	
W0225	Grout (non-shrink)	ra3	0.06	1.0%	96.5%	2.6%	61.3%	38, 7%	3,050,00	1.75	176, 52	4, 73	112. 12	70.88	183, 00	Loss 3,4
	Miscellaneous	ts	1.00	0.0%	50 <u>, 0%</u>	50.0%	55.0%	45.0%		0.00	2 <u>, 937. 61</u>	2, 937. 61	3 <u>, 2</u> 31, 37	2, 643, 85	<u>5, 875. 22</u>	2.0%
	Total									1, 109, 06	294, 219, 94	4, 307, 04	207, 852, 07	91, 783, 97	299, 636, 04	
	Components (%)						,			0.4%	98.2%	1.4%	69. 4%	30, 6%	100.0%	
	Unit Rate	each		i —						1, 1 0, 40	294, 577, 32	4, 312, 27	208, 104, 54	91, 895, 46	300, 000, 00	

Miscellaneous covers the costs for depreciation of temporary sumports, minor tools, generator, etc.

 $y = N/[02 \cdot a \cdot (N+8)]$

y : Work capacity

2,44 each/day

N: Total number of shoes в : Coefficient

22 1.50

R0402-080

R0604-020

Truck Crane, Nydraulic 71-80t

Total

Components (%)

Trailer 20t

Rustproof-2

Miscellancous

403 (в) ъ	Bearing Shoe for Steel Plate Girder Ty	pe 2 (k	Max. R=650t) i	Pampan	ga Brid	ge							llnit:	1.00	each	
		Т				Ü	lnit katı	e				Aino	un t			
Item No.	Description	Unit	Quantity		Cox	nponent.	(<u>%</u>)		Total			Component (PP)			Total	Remarks
			· _	Lah,	Mat	Equip.	For.	Local	(PP)	Lahor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0, 41	100, 0%	0.0%	0.0%	0.0%	100.0%	566, 00	232.06	0, 00		0.00	232.06	232, 06	
L019	Skilled Labor	md	1.64	100.0%	0.0%	0, 0%	0.0%	100.0%	403.00	660, 92	0.00	0.00	0.00	660, 92	660, 92	
L020	Unskilled Labor	md	0.41	100, 0%	0.0%	0,0%	0.0%	100.0%	314, 00	128, 74	0.00	0.00	0.00	128. 74	128, 74	
M08 F08	Bearing Shoe (rubber enclosed type), 650t	each	1.00	0.0%	100, 0%	0, 0%	70,0%	30,0%	764, 000, 00	0, 00	764, 000, 00	;	534, 800. 00	229, 200, 00	764, 000. 00	
R0402-025	Truck Crane, Mydraulic 21-25t	hr	1. 17	5, 5%	6.8%	87, 7%	52.0%	48.0%	1, 330, 00	85, 59	105. 81	1, 364, 70	809, 57	747, 53	1, 556. 10	
W0225	Grout (non-shrink)	m3	0, 07	1.40%	96,5%	2.6%	61.3%	38.7%	3, 050, 00	2.04	205. 94		130, 81	82.69	213, 50	Loss 3,0%
	Miscellaneous	LS	1.00	0.0%	50.0%	50.0%	55, 0%	45.0%		0.00	7, 667, 91	7, 667, 91	8 <u>, 434. 70</u>		15, 335, 83	2.0%
	Total				L			l		1, 109, 35	771, 979, 66	9, 038. 13	544, 174, 09	237, 953, 06	782, 127, 15	
	Components (%)			Γ						0.1%	98. 7%		69.6%	30. 4 <u>%</u>	100.0%	
	Unit Rate	each						1 1		1 109 171	771.854.17	9, 036, 67	544, 085, 63	237, 914, 37	782, 000, 00	3

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, generator, etc. $y = N/\{02 \cdot a \cdot (N+\theta)\}$ N: Total number

y : Work capacity

2.44 each/day

N: Total number of shoes a : Coefficient

22 1, 50

403 (8) c	Bearing Shoe for Steel Plate Girder Typ	эө 3 ()	Max. R≃650t) in	<u>Ратрян</u>	ga Bridg	ө							Unit:	1,00 (<u>each</u>	
						U	nit Rate					Amor	un t			
Item No.	Description	Unit	Quantity	Г	Cog	ponent	(%)		Total			Component (PP)			Total	Remarks
L		l		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	l.oca l	(PP)	
1,002	Foreman	mri	0.41	100, 0%	0.0%	0.0%	0.0%	100.0%	566, 80	232. 06	0, 00	0,00	0.00	232, 06	232, 06	
L019	Skilled Labor	md	L 64	100,0%	0.0%	0.0%	0.0%	100.0%	403.00	660, 92	0, 00	0.00	0, 00	660, 92	660. 92	
L020	Unskilled Labor	mrt	0.41	100.0%	0.0%	0, 0%	0.0%	100,0%	314.00	128, 74	0.00	0, 00	0, 00	128.74	128, 74]
M09108	Bearing Shoc (rubber enclosed type), 650t	each	1.00	0.0%	100.0%	ი. ს%	70.0%	30, 0%	764, 000. 00	0, 00	764, 000. 00	0.00	534, 800, 00	229, 200. 00	764, 000, 80	
R0402-025	Truck Crane, Hydraulic 21-251	hr	1, 17	5, 5%	6.8%	87, 7%	52.0%	48. 0%	1, 330, 00	85, 59	105, 81	1, 364, 70	808, 57		1, 556. 10	
₩0225	Grout (non-shrink)	m3	0.07	1.0%	96.5%	2. K%	61.3%	36.7%	3, 650. 00	2, 04	205. 94		130, 81	82, 69	213, 50	Loss 3.0%
L	Miscellaneous	LS	1.00	0.0%	50,0%	50,0%	55.0%	45.0%		0.00	7, 667, 91	7, 667, 91	8, 434, 70	6, 901, 12	15, 335, 83	2.0%
	Total									1, 109, 35	771, 979, 66	9, 038, 13	544, 174, 09	237, 953. 06	782, 127, 15	
	Components (%)									0.1%	98. 7%	1. 2%	69.6%	30.4%	100, 0%	
	Unit Rate	each					Γ			1, 109, 17	771, 854, 17	9, 036, 67	544, 085, 63	237, 914, 37	782, 000, 00	

Miscellaneous covers the costs for depreciation of temporary supports, minor tools, gunerator, etc.

y = N/[02 a (N+8)]

v : Work capacity = 2.44 each/day a : Coefficient

22 1. 50

SPL 403(9)	Steel Grating for Sunlight Opening in L	nderpa	sses										Unit:	10, (0) i	n2	
		\ ₁				U	nit Rate					Amou	nt			-
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.		Equip.	For.	I.ocal	(PP)	l.abor	Material	Equipment	Foreign .	Local	(PP)	
1.002	Foreman	md	0, 57			0.0%	0, 0%	100, 0%	566.00	322, 62	0.00	0.00	0.00	322.62	322, 62	
	Welder	md	1.91	100, 0%	0.0%	0.0%	0.0%	100.0%	500, 00	955.00	0, 00	0,00	0. 00	955, 00	955.00	
	Skilled Labor	nad	1,91	100.0%	0.0%	0.0%	0.0%	100,0%	403.00	769, 73	0.00	0.00	0, 00	769.73	769, 73	
	Unskilled Labor	md	0.95	100.0%	0.0%	0.0%	0.0%	100.0%	314,00	298. 30	n, oo [0.00	0.00	298, 30	298, 30	
MO2012	Structural Steel (Flat Bar, SS400)	kg	1, 284, 43	0.0%	100, 0%	0.0%	70, 0%	30, 0%	22, 70	0.00	29, 156, 56	0.00	20, 409, 59	8, 746, 97	29, 156, 56	Loss 7,0%
M02014	Structural Steel (Shapes, SS400)	kg	623, 06	0.0%	100,0%	0.0%	70, 0%	30.0%	17, 60	0, 00	10, 965. 86	0.00	7, 676, 10	3, 289, 76	10, 965, 86	loss 7.0%
R0901~025	Welding Machine 250A	day	1.91	0.0%	39, 8%	60.2%	58.6%	41, 1%	588.00	0.00	446, 99	676, 09	657. 96	465, 12	1, 123.08	ì
R0402-025	Truck Crane, Hydraulic 21-25t	l hr l	0, 10	5.5%	6.8%	87, 7%	52.0%	48,0%	1, 330. 00	6, 98	B. 63	[11, 25]	65.91	60.94	126, 85	!
R0601-006	Dump Truck, 6.0-9.0 cu-yds (4.6-6.9m3)	hr	1.92	10.0%	17.9%	72, 1%	50.8%	19. 2%	603, 00	115, 78	207, 24	834, 74	587. 89	569. 87	1, 157, 76	
1	Miscellaneous	LS	1, 90	10, 0%	35.0%	55.0%	50. 8%	50, 0%		1, 346, 27	4, 711, 95	7, 404. 50	6, 731, 36	6, 731. 36	13, 462, 73	30.0%
	Total									3, 814, 68	45, 497. 23	9, 026, 69	36, 128, 82	22, 209, 66	58, J38, 49	
	Components (%)			[]						6.5%	78.0%	15. 5%	61. 9%	38, 1%	100.0%	
L	Unit Rate	m2						l		381. 22	4, 546. 72	902, 06	3, 610, 50	2, 219, 50	5, 830, 00	

Miscellaneous covers the cost for fabricator's overhead & facilities, painting or galvanizing, etc.

4(1)						υ	nit Rate	•				Атош	nt		_	
Item No.	Description	Սոււ	Quantity		Cor	nponent	(%)		Total			Companent (PP)			Total	Remarks
	<u> </u>	[Lab.	Mat.	Equip.	For.	Local	(PP)	Lahor	Material	Equipment	Foreign	Local	(PP)	
1,002	Foreman	md	0.70	100.0%	0.0%	0.0%	0.0%	100.0%	566, 00	396, 20	0, 00	0.00	0.00	396, 20	396, 20	
1.006	Re-Bar Worker	md	4, 60	100.0%	0.0%	0.0%	0.0%	100, 0%	403, 00	1, 853, 80	0.00	0, 00	0, 00	1, 853. 80	1, 853, 80	
L019	Skilled Labor	md	0.60	100.0%	0.0%	0,0%	0, 0%	100.0%	403, 00	241. 80	0, 00	0.00	0, 00	241.80	241.80	
1.020	Unskilled Labor	l tonal	3.20	100.0%	U. 0%	0.0%	0.0%	100.0%	314,00	1,004.80	0.00	0.00	0.00	t, 004, 80	1,004.80	
M02001	Reinforcing Bars, Grade 40	kg	1, 070, 00	0.0%	100.0%	0.0%	65.0%	35, 0%	16, 00	0.00	17, 120, 00	0, 10	11, 128, 00	5, 992. 00	17, 120, 00	Loss 7
R0402~025	Truck Crane, Hydraulic 21-25t	hr i	0.57	5.5%	6.8%	87. 7%	52, 0%	48.0%	1, 330, 00	41. 70]	51, 55	664.85	393. 92	364, 18	758, 10	
	Miscellaneous	LS	1, 00	0,0%	40,0%	60.0%	55.0%	15.0%		_0,00	<u>7</u> 69, 49	1, 154, 23	1, 058, 05	865. 68	<u>1,</u> 923. 72	9.0%
	Total		***************************************							3, 538. 30	17, 941, 04	1, 819, 09	12, 579. 97	10, 718. 45	23, 298, 42	
	Components (%)									15. 2%	77.0%	7.8%	54. 8%	46, 0%	_ 100.0%	
	Unit Rate	ke								3, 54	17. 94	1. 82	12, 58	10. 72	23, 30	

Miscellaneous covers the cost for bar cutter, har bender, binding wire, spacer, etc.

404(2)	Reinforcement Steel Grade 60												Unit:	<u>1, 000. 00_k</u>	g	
		_ []					hit Kat	e	1			Amou	int			
Item No.	Description	Unit	Quantily		Cor	nponen t	(%)		Total			Component (PP)			Total	Remarks
				Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Materia!	Equipment	Foreign	Local	(PP)	
L002	Foreman	nd i	0.70	100.0%	0.0%	0.0%	0.0%	100, 0%	566, 00	396. 20	0, 00	0, 00	0.00	396, 20	396, 20	1
L006	Re-Bar Worker	nd i	4. 60	100.0%		0.0%	0.0%	100.0%	403, 00	1, 853, 80	0.00	0.00	0, 00	1, 853, 80	1, 853, 80	
6019	Skilled Lahor	and i	0, 60	100.0%	0.0%	0.0%	0, 0%	100,0%	403, 00	241.80	0.00	0.00	0.00	241, 80	241, 80	1
L020	Baskilled Labor	nd	3. 20	100.0%	0,0%	0.0%	0.0%	100.0%	214.00)	1, 004, 80)	0.00	0.00	0.00)	1, 004, 80	1, 004, 80	ì
MO2002	Reinforcing Bars, Grade 60	kg	1, 070, 00	0.0%	100.0%	0.0%	65,0%	35.0%	17.00	0.00	18, 190, 00	0, 00	11,823.50	6, 366, 50	18, 190, 00	(.oss 7.0%)
R0402-025	Truck Crane, Hydraulic 21-25t	hr	0. 57	5.5%	6, 8%	87.7%	52.0%	48.0%	1, 330. 00	41.70	51, 55		393. 92	364. 18	758, 10	
	Miscellaneous	LS	1,00	0.0%	40, 0%	60.0%	55.0%	45.0%		0.00	<u>808. UL</u>		1, 111, 01	909. 01	2, 020, 02	9, 0%
	Total									3, 538. 30	19,049.56	1, 876, 87	13, 328, 43	11, 136, 29	24, 464. 72	
	Components (%)									14.5%	77. 9%	7. 7%	54. 5%	45. 5%	_ 100.0%	}
	Unit Rate	kg						[3, 54	19.08	1. 88	13. 35	11.15	24, 50	

Miscellaneous covers the cost for bar cutter, bar bonder, binding wire, spacer, etc.

	1						nit Rate	!				Алюцг	ìL.			
Item No.	Description	Unit	Quantity		Cor	проnent	(%)		Total			Component (PP)			Total	Remarks
	<u> </u>	<u>1</u>		Lab.	Mat.	Equip,	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PC)	
W0203	Concrete (C)ass A, 21MPa, max agg. 38mm)	m3	10. 20	2, 5%	79, 7%	17. 7%	56.7%	43. 3%	1, 630, 00	422. 52	13, 254, 91	2, 948. 57	9, 425, 97	7, 200. 03	16, 626, 00	Loss 2, 09
W0232	Concrete Pouring by Pump Vehicle (reinfereed concrete)	m3	10.00	15, 5%	0.2%	84. 3%	45. 2%	54.8%	257. 00	399. 26	5. 04	2, 165, 70	1, 160, 60	1, 409. 40	2, 570, 00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4. 21	31.42	3, 20	7. 48	5. 88	36, 22	42, 10	
W0241	Formwork (reinforced concrete MK4m)	m2	49. 20	59, 3%	39.9%	0.8%	2.9%	97. (%)	224, 00	6, 533, 80	4, 400. 57	86, 44	321.59	10, 699, 21	11, 020, 80	
WO441	Temporary Frame Support Installation & Removal	m3	20, 00	58. 9%	3.9%	37. 1%	22. 5%	77, 5%	52, 50	618. 97	41, 16	389. 87	23 6 . 32	813, 68	1, 050. 00	
WO442	Temporary Frame Support Depreciation	m3-d	560.00	0.0%	96, 3%	3,7%	50, 0%	50.0%	0. 76	0.00	410, 92	15. 80	213, 36	213. 36	426. 72	
	Miscellaneous	I.S	1,00			1			1	0.00	0, 00	0,00	0.00	0.00	0, 00	0.0%
	Total									8, 005, 97	18, 115, 79	5, 613, 86	11, 363, 72	20, 371, 90	31, 735, 62	
	Components (%)].								25. 2%	57.1%	17, 7%	35.8%	64. 2%	100.0%	
	Unjt Rate	m3								799, 70	1, 809, 55	560. 76	1, 135, 10	2, 034, 90	3, 170, 00	

405(I)b	Structural Concrete Class A (fc'=21MPa,	max.	aggregate 38mm) for st	nall & π	edium b	idges <u>s</u>	ubstruc	tures				Unit:	10. QO_m	3	
Γ-						1	nit Rate	}				Amou	nt			
Item No.	Description	Unit	Quantity		Соп	ponent	(%)		Total			Component (PP)			Total	Remarks
				J.ab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0203	Concrete (Class A, 21MPa, max agg. 38mm)	m3	10, 20	2.5%	79. 7%	17. 7%	56, 7%	43, 3%	1, 630, 00	122, 52	13, 254. 91	2, 948, 57	9, 425. 97	7, 200, 03	16, 626, 00	Loss 2.0%
₩0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15.5%	0.2%	84.3%	45, 2%	54.8%	257. 00	399. 26	5,04	2, 165. 70	1, 160, 60	1, 409, 40	2, 570. 00	
₩0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7, 6%	17.8%	14.0%	86.0%	4. 21	31, 42	3. 20	7, 48	5, 88	36, 22	42, 10	
₩0241	Formwork (reinforced concrete IK4m)	m2	14.90	59.3%	39, 9%	0. B%	2.9%	97, 1%	224, 00	1, 978. 73	1, 332, 69	26, 18	97. 39	3, 240, 21	3, 337. 60	1
	Miscellaneous	LS	L. 00							0,00	0,00	0.00	U. 00	0.00	0.00	0.0%
	Total									2, 831, 93	14, 595, 84	5, 147. 93	10, 689, 84	11, 895, 86	22, 575, 70	
	Components (%)									12.5%	64. 7%	22. 8%	47, 4%	52, 6%	100.0%	
	Unit Rate	m3						L		283, 50	1, 461. 16	515. 35	i, 070, 13	1, 189, 87	2, 260, 00	

405(1)c	Structural Concrete Class Al (fc'=21MPs	, max.	aggregate 20m	m) for	small &	medium 1	bridges	RCDG su	perstructures				_Unit:	10, 00	m3	
		[Init Rate						in l			
[tem No.	Description	Unit	Quantity		Cor	mponent	(%)		Total			Component (PP)			Total	Remarks
1		1.	•	Lah.	Mat.	Equip.	For.	Local	(PP)[Labor	Material	Equipment	Foreign	Local	(PP)	
₩0203a	Concrete (Class Al. 21MPa, max agg. 20mm)	т3	10. 20	2. 4%	80,9%	16.7%	56.9%	43. 1%	1, 700, 00	418.08	14, 029, 03	2, 892. 89	9, 858, 56	7, 481. 44	17, 340, 00	loss 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10. 00	15, 5%	0, 2%	84, 3%	45, 2%	54.8%	257.00	399, 26	5. 04	2, 165, 70	1, 160. 60	1, 409. 40	2, 570. 00	
W0237	Concrete Curing (reinforced concrete)	m.3	10.00	74.6%	7.6%	L7.8%	14.0%	R6.0%	4, 21	31.42	3. 20	7,48	5,88	36, 22	42.10	
W0441	Temporary Frame Support Installation & Removal	m3	102. 30	58, 9%	3, 9%	37. 1%	22. 5%	77. 6%	52, 50	3, 166, 04	210. 52	1, 994, 19	1, 208, 78	4, 161. 97	5, 3 7 0, <i>7</i> 5	
W0442	Temporary Frame Support Depreciation	m3·d	6, 138. 00	0,0%	96, 3%	3, 7%	50.0%	50.0%	0, 76	0, 00	4, 503. 93	173, 23	2, 338, 58		4, 677, 16	
W0241	Formwork (reinforced concrete IK4m)	m2	50.10	59, 3%	39.9%	0.8%	2.9%	97, 1%	224, 00	6, 653. 32	4, 481, 07	88, 02	327. 48	10, 894, 92	11, 222, 40	
L	Miscellaneous	LS ,	1.00			L l	l	L		<u>0</u> . 00	0,00	0.00	<u>U. 00</u>	0, 00	0.00	0.0%
	Total									.10, 668, 11	23, 232, 80	7, 321. 50	14, 899. 87	26, 322, 54	41, 222, 41	
	Components (%)			Г <u></u> _						25. 9%	56, 4%	17. 8%	36. 1%	63.9%	100, 0%	
	Unit Rate	m3								1 066 231	2.322.02	731. 75	I 189. 18	2, 630, 82	4, 120, 00	··

						Ur	n <u>ít Kate</u>			_		Amou	nt			
Item No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Component (PP)			Total	Remarks
	<u> </u>			Lah.	Mat,	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
₩0203a	Concrete (Class Al. 21MPa, max agg. 20mm)	m3	10, 20	2.4%	80.9%	16, 7%	56.9%	43, 1%	1, 700.00	418, 08	14, 029, 03	2, 892, 89	9, 858, 56	7, 481. 44	17, 340, 00	Loss 2,
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10, 00	15.5%	0.2%	84. 3%	45. 2%	54, 8%	257. 00	399, 26	5, 04	2, 165. 70	1, 160. 60	1,409.40	2, 570, 00	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7.6%	17, 8%	14.0%	86.0%	4. 21	31, 42	3. 20	7, 48	5, 88	36. 22	42.10	
W0411	Temporary Struts & Supports Installation	t	2, 60	33. 7%	9.5%	56.9%	36.9%	63.1%	1, 390, 00	1, 216, 94	341, 99	2, 055, 07	1, 332. 88	2, 281, 12	3,614.00	
W0412	Temporary Struts & Supports Removal	t	2. 60	35.3%	9.1%	55. 5%	35.7%	64, 3%	827.00	759, 53	196, 26	1, 194, 41	768, 44	1, 381, 76	2, 150. 20	
M05041	Temporary Steel Shapes Depreciation	દ હ	156, 00	0.0%	100.0%	0,0%	50, 0%	50.0%	31,30	0, 60	4, 882. 80	0, 00	2,441.40	2, 441, 40	4, 882, 80	
W0241	Formwork (reinforced concrete H/4m)	m2	42, 60	59. 3%	39, 9%	0.8%	2.9%	97.1%	224, 00	5, 657. 31	3, 810, 25	74. 84	278. 45	9, 263, 95	9, 542, 40	
	Miscellaneous	LS	1.00			i				0, 00	0.00	0.00	0.00	0.00	0.00	0, 0%
	Total									8, 482, 54	23, 268, 57	8, 390, 39	15, 846, 20	24, 295, 30	40, 141, 50	
	Components (%)									21.1%	58.0%	20.9%	39.5%	60, 5%	100.0%	
	Unit Rate	_m3					_ [847, 38	2, 324, 45	838, 17	1, 582, 98	2, 427, 02	4, 010, 00	

405(1)e	Structural Concrete Class AA1 (fc'=28M)	a, max	. aggregate 25) for le	ong brid	ige subs	t <u>ruc</u> ture	s					Unit:	10, 00	m3	
		}				l)	nit Rate					Атон	nt			
Ltem No.	Description	Unit	Quantity		Cor	sponent			Total			Component (PP)			Total	Remarks
		1		Lab.	Ma L.	Equip.	for,	l.oca1	(PP)	l.abor	Maierial	Equipment	Foreign	Local	(99)	
₩0205	Concrete (Class AAL, 2BMPa, max agg. 25mm)	m3	10. 20	2, 3%	81.4%	16, 3%	57.6%	12, 4%	1, 780, 00	421.33	14, 782, 44	2, 952. 24	10, 465. 60	7, 690, 40	18, 156. 00	Loss 2,0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10.00	15, 6%	0, 2%	84, 3%	45. 2%	54. 8%	257.00	399. 26	5.04	2, 165. 70	1, 160. 60	1, 409. 40	,	
₩0237	Concrete Curing (reinforced concrete)	mJ	10.00	74.6%	7.6%	17.8%	14.0%	86.0%	4, 21	31.42	3. 20	7.48	5.88	36, 22	42.10	
₩0241	Formwork (reinforced concrete HK4m)	m2	13, 10	59, 3%	39, 9%	0.8%	2.97	97.1%	224, 00	1, 739, 69	1, 171, 70	23.01	85, 63	2, 848, 77	2, 934, 40	
L	Miscellaneous	1.8	1,00			<u>. </u>				0.00	0. 00	0. BO	0.00	0.00	0.00	0.0%
	Total	L. "								2, 591, 69	15, 962. 37	5, 148, 43	11, 717. 71	11, 984, 79	23, 702, 50	
	Commonents (%)									10.9%	67. 3%		49. 4%	50.6%	100, 11%	
	Unit Rate	m3			1					259, 14	1, 596. 07	514, 79	1, 171, 65	1, 198. 35	2, 370, no	

						IJ	<u>nit Rate</u>			_		Amour	<u> </u>			
Lem No.	Description	Unit	Quantity		Cor	monent	()K)		Total			Component (PP)			Total	Remarks
				Lah,	Mat.	Equip.	For.	Local	(PP)	l.abor	Materia!	Equipment	Poreign	Local	(PP)	
WO206	Concrete (Class AA2, 28MPa, max agg. 20mm)	m3	10. 20	2, 2%	82, 7%	15.1%	57.8%	42. 2%	1, 860, 00	414. 16	15, 685, 93	2, 871. 91	10, 970. 58	8,001.42	18, 972, 00	Loss 2.09
WO232	Concrete Pouring by Pump Vehicle (reinforced concrete)	п3	10.00	15. 5%	0, 2%	84. 3%	45. 2%	54. 8%	257. 00	399. 26	5, 04	2, 165. 70	1, 160, 60	1, 409, 40	2, 570, on	
WQ237	Concrete Curing (reinforced concrete)	m3	10,00	74.6%	7,6%	L7.8%	14.0%	86,0%	4.21	31.42	3, 20	7.48	5.88	36.22	42, 10	
WO411	Temporary Struts & Supports Installation	t	2, 90	33.7%	9.5%	56, 9%	36, 9%	63, 1%	1, 390, 00	1, 357, 36	381. 45		1, 486, 67	2, 544, 33	4, 031, 00	
WO412	Temporary Struts & Supports Removal	t	2. 90	35.3%	9.1%	55.5%	35.7%	64.3%	827, 00	847. 16	218, 91	1, 332, 23	857. 10	1, 541, 20	2, 198, 30	
M0S041	Temporary Steel Shapes Depreciation	1.d	174, 00	0,0%	100.0%	0.0%	50.0%	50, 0%	31, 30	0, 00	5, 446, 20	0.00	2, 723, 10	2, 723. 10	5, 446, 20	
WQ241	Formwork (reinforced concrete IK4m)	m2	49, 20	59.3%	39.9%	0.8%	2, 9%	97, 1%	224, 00	6, 533, 80	4, 400. 57	86, 44	321.59	10, 699, 21	11,020.80	
	Miscellaneous	LS	1,00							0.00	0,00	0.00	0, 00	0, 00	0.00	0.0%
	Total	L								9, 583, 16	26, 141, 29	8, 755. 95	17, 525. 52	26, 954, 88	14, 480. 40	
	Components (%)									21.5%	58.8%	19.7%	39, 4%	60.6%	100, 0%	
	Unit Rate	m3								958. 74	2, 615, 28	875, 98	1, 753, 32	2, 696, 68	4, 450, 00	

Depreciation period for temporary support =

405 (2)	Structural Concrete Class B (fc'=17MPa,	max.	aggregate 50mm	n) for p	lain or	lightly	reinfor	ced str	uctures				Unit:	10.00 m	a3	
							nit Rate					Amou	int			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0202	Concrete (Class B. 17MPa, max agg. 50mm)	m3	10, 20	3, 0%	75. 5%	21.5%	56.1%	43. 9%	1, 400.00	430, 94	10, 783, 94	3, 065. 12	8, 009, 79	6, 270. 21	14, 280, 00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	10.80	18, 8%	0. 2%	81.0%	43, 4%		213.00	400, 37	4, 18	1, 725. 45	924. 78	1, 205. 22	2, 130, 00	}
¥0236	Concrete Curing (plain concrete)	m3	10.00	70, 9%	8.7%	20. 4%	16.0%	84, 0%	8, 85	62. 77	7. 72	[8.01]	14. 15	74. 35	88, 50	
₩024L	Formwork (reinforced concrete IK4m)	m2	33, 30	59, 3%	39.9%	0.8%	2.9%	97.1%	224.00	4, 422, 26	2, 978, 43	58, 50	217. 66	7, 241. 54	7, 459, 20	
J	Miscellaneous	LS.	1.00	i _i						0.00	0,00	0.00	0.80	0, 00	0.00	0.0%
	Total	1								5, 316, 34	13, 774. 27	4, 867. 09	9, 166, 39	14, 791. 31	23, 957, 70	
	Components (%)									22. 2%	57. 5%	20.3%	38.3%	61.7%	100.0%	
	Unit Rate	т3								532. 57	1, 379, 86	487. 57	918, 26	1, 481. 74	2, 400. 00	

405 (3)	Structural Concrete Class C (fc'=21MPa,	max,	aggregate 12mm) for t	hin reir	forced	members						Unit:	10,00	m3	
							nit Rate						int			
Item No.	Description	Unit	Quantity		Car	nponent	(%)		Total			Component (PP)			Total	Remarks
L		L		Løb,	Mat,	Equip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
₩0204	Concrete (Class C, 21MPa, max agg. 12mm)	m3 :	10. 20	2.4%	81.5%	16.1%	56, 9%	43.1%	1,720.00	412, 60	14, 298, 09	2, 833, 31	9, 987, 75	7, 556, 25	17, 544, 00	Less 2.0%
W0232	Concrete Pouring by Pump Vehicle (reinforced concrete)	m3	10,00	15, 5%	0, 2%	84. 3%	45, 2%	54.8%	257. 00	399, 26	5, 04	2, 165. 70	1, 160, 60	1, 409, 40	·	
W0237	Concrete Curing (reinforced concrete)	m3	10.00	74.6%	7, 6%	17.8%	14.0%	86.0%	4. 21	31. 42	3, 20	7. 48	5, 88	36, 22	42, 10	
₩0241	Formwork (reinforced concrete IK4m)	m2	25, 80	59.3%	39, 9%	0.8%	2.9%	97. t%	224, 00	3, 426, 26	2, 307, 61	45. 33	168, 64	5, 610, 56	5, 779, 20	
	Miscellaneous	LS	1,00						!	0, 00	0.00	0.00	0,00	0.00	0.00	0.0%
	Total	L								4, 269, 54)	16, 613. 94	5, 051.82	11, 322, 87	14, 612, 43	25, 935, 30	
	Components (%)						L.			16. 5%	64. 1%	19,5%	13. 7%	56, 3%	100.0%	
	Unit Rate	m3								426. 37	1, 659. t3	504, 49	1, 130. 75	1, 459. 25	2, 590, 00	

405 (4) b	Structural Concrete Class PP (41MPa, ma	x. agg	. 20mm) for pr	estress	ed box a	irders_	in Angat	Bridge					Unit:	10.00 :	m3	
						l	nit Rate	,				Δmo	unt			
item No.	Description	Unit	Quantity		Cos	nponent	(%)		Total			Component (PP)			Total	Remarks
L		L		Lab.	Mat.	Equip.	for.	l.ocal	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
WO208	Concrete (Class PP, 41MPa, max agg, 20mm)	m3	10. 20	1. 9%	85.0%	13.1%	58. 2%	41, 8%	2, 150, 00	416, 51	18, 645, 30	2, 868. 19	12, 772, 64	9, 157. 36	21, 930, 00	Loss 2,0%
W0233	Concrete Pouring by Pump Vehicle for PC box girder cantilever construction	m3	10.00	29. 1%	0.2%	70.7%	37.9%	62. 1%	508, 00	1, 478, 72	9. 96	3, 591. 32	L, 925. 70	3, 154, 30	5, 080, 00	
₩0237	Concrete Curing (reinforced concrete)	m3	10, 00	74.6%	7.6%	. 17.8%	14.0%	16.0%	4. 21	31.42	3. 20	7. 48	5. 88	36, 22	42.10	i
W0245	Formwork Installation and Removal for PC Box Girder (Cantilever Construction)	m2	31, 60	62, 6%	21.6%	15.8%	11.4%	88, 6%	468.00	9, 260, 29	3, 191. 11	2, 337. 40	1, 686. 37	13, 102, 43	14, 788. 60	
	Miscellancous	เร	1.00		L .		L	1		0.00	0.00	0.00	0.00		0.00	0.0%
	Total									11, 186, 93	21, 849, 58	8, 804, 39	16, 390, 59	25, 450, 31	4L, 840, 90	
	Components (%)									26. 7%	52. 2%		39. 2%	60, 8%	100. o <u>%</u>	
	Unit Rate	m3								1, 117, 60	2, 182. 82	879. 58	1, 637. 46	2, 542. 54	4, 180, 00	

	<u> </u>					U	nit Rate					Amour	<u></u>			
ltem No.	Description	Unit	Quantity		Com	ponent	(%)		Total			Component (PP)			Total	Remarks
	<u></u>			Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	0, 90	100.0%	0.0%	0.0%	0, 0%	100.0%	566.00	509, 40	0, 00	0.00	9, 00	509, 40	509, 40	
L005	Carpenter	mci	4, 80	100.0%	0.0%	0.0%	0, 0%	100.0%	444, 00	2, 131, 20	0.08	0.00]	0, 00	2, 131, 20	2, 131, 20	
L019	Skilled Labor	moi [0.80	100,0%	0, 0%	0.0%	0.0%	100, 0%	403, 00	322, 40	· 0.00	0.00	0.00	322, 40	322, 40	
1.019	Skilled Labor	md	0.80	100, 0%	0.0%	0.0%	0, 0%	100,0%	403.00	322, 40	0, 00	0.00	0,00	322, 40	322, 40	
L020	Unskilled Labor	md	4. 60	100.0%	0.0%	Q. 0%	0.0%	100.0%	314.00	1, 444. 40	0.00	n. 00	0.00	1, 444, 40	1. 144, 40	
W0208	Concrete (Class PP, 41MPs, max agg, 20mm)	m3°	10. 20	1.9%	85.0%	13. 1%	58, 2%	41.8%	2, 150, 00	416, 51	18, 645. 30	2, 860, 19	12, 772, 64	9, 157, 36	21, 930, 00	l.oss 2.
R0702-100	Concrete Pump Vehicle 100cu-yds/hr (76.5m3/hr)	hr	. 0, 50	0, 0%	0.0%	100.0%	53, 4%	46. 6%	2, 190, 00	0, 00	0. 00	1, 095, 00	585. 05	509. 95	1, 095, 00	
W0242	Formwork (reinforced concrete [[≥4m]	m2	44,00	47, 1%	33.6%	19.3%	13, 6%	86, 4%	283. 00	5, 869, 38	4, 185, 43	2, 397, 19	1, 699, 09	10, 752, 91	12, 452, 00	
W0441	Temporary Frame Support Installation & Removal	m3	81.50	58, 9%	3.9%	37.1%	22.5%	77.5%	52. 50	2, 522. 31	167. 72	ι, 588. 72	963, 01	3, 315, 74	4, 278, 75	
W0442	Temporary Frame Support Depreciation	m3 • d	4, 890.00	0.0%	96.3%	3.7%	50.0%	50.0%	0. 76	0.00	3, 588. 17	138, 01	1, 863, 09	1, 863, 09	3, 726, 18	
	Miscellaneous	LS								0.00	0.00	0.00	0, 00	0,00	0.00	0.0%
	Total	L								13, 538, 00	26, 586, 62	9, 087, 11	17, 882, RB	30, 328. 85	48, 211, 73	
	Components (%)									28. 1%	55. 1%	16.8%	37, 1%	62, 9%	100.0%	
	Unit Rate	n3								1, 353. 47	2, 658. 02	808.51	1, 787, 85	3, 032. 15	4, 820, 00	

405 (6)	Lean Concrete (17MPs, max. agg. 38mm),_	poured	L										lini t	10,00 c	я3	
						U	nit Nate	,				Amou	int			
[Lem No.	Description	Unit	Quantity		Cor	mponent	(%)		Total			Component (PP)			Total	Kemarks
·		1 1		Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
#0201	Lean Concrete (17MPa, max agg. 38mm)	m3	10, 20	2.7%	78.1%	19.1%	56.4%	43.6%	1,510.00	421. 47	12, 033, 25	2, 947. 28	8, 692, 05	6, 709. 95	15, 402, 00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	10, 00	18.8%	0.2%	81.0%			213, 00	400. 37	4, 18		924, 78	1, 205. 22	2, 130, 00	
WO236	Concrete Curing (plain concrete)	m3	10, 00	70.9%	8.7%	20, 4%	16.0%	84. 0%		62. 77	7,72	18, 01	14, 15	74. 35	88, 50	
W0243	Formwork (less concrete)) m2)	12, 50	41.3%	58.0%	0, 8%]	3.8%	96. 2%	152.00	783, 80	1, 101, 30	[4, 90]	72. 57	1, 827, 43	1, 900, 00]	1
Ĺ	Miscellaneous	LS	1,00							0.00	0.00	9, 00	0.00	0.00	0,00	0, 0%
	Total					I 1				1, 668. 41	13, 146, 44	4, 705, 65	9, 703. 56	9, 816, 94	19, 520, 50	
	Components (%)									8, 5%	67. 3%	24. 1%	49, 7%	50, 3%	100.0%	
	Unit Rate	m3								166. 67	1, 313, 26	470.07	969, 34	980. <u>6</u> 6	1, 950, 00	

406 (1) a	Precast Prestressed Structural Concrete	Membe	rs (AASHTO Gir	<u>der Type</u>	. IV L≃2	Ons), fat	ricated	l & erec	ted		-		Uniti	1.00	each	
						lh	nit Rate	2				Amou	nit			
Itum No.	Description	Unit	Quantity .		Con	ponent (%)	_	Total			Component (PP)			Total	Remarks
	<u>l</u>	L . I		Lab.	Mat.	Equip.	For.	Local	(PP)[Labor	Material	Equipment	Foreign	Local	(PP)	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girde	1, 00	76. 3%	11.8%	11.8%	13, 0%	87.0%	502, 00	383. 21	59, 40	59, 40	65. 34	436, 66	502, 00	
W0522	Precast PC Girder Fabrication Base Maintenance	girden	1, 00	100.0%	0, 0%	0.0%	0.0%	100.0%	493, 00	493, 00	0.00	0, 00	0, 00	493. 00	493, 00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	11,59	L. 9%	85, 0%	13, 1%	58.2%	41.8%	2, (50, 00	473, 27	21, 186. 18	3, 259, 05	14, 513, 23	10, 405, 27	24, 918, 50	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	11.36	18.8%	0. 2%	81.0%	43.4%	56. 6%	213.00	454. 82	4. 74	1, 960, 11	1, 1150, 55	1, 369, 13	2, 419, 68	
W0237	Concrete Curing (reinforced concrete)	m3	11.36			17.8%	14.0%	R6. 0%	4.21	35, 69	3. 64	8, 50	6, 67	41.16	47, 83	
W0241	Formwork (reinforced concrete 1(<4m)	m2	62, 46	59, 3%	39.9%	0.8%	2.9%	97. 1%	224,00	8, 294, 73	5, 586, 57	109, 73	408. 27	13, 582. 77	13, 991, 04	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	761.00	15, 2%	77.0%	7.8%	54.0%	46.0%	23. 30	2, 692. 83	13, 654, 06	1, 384, 42	9, 574. 00	8, 157, 30	17, 731. 36	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	959.00	14, 5%	77.9%	7.7%	54.5%	45.5%	24. 50	3, 398, 12	18, 294. 87	1, 802, 51	12, 800. 40	10, 6 95, 10	23, 495, 50	
W0537	PC Strand (12-T(2.7, 225t) Installation for Precast PC Girder	m	40, 80	4.8%	95,0%	0. 2%	65, 9%	34. 1%	1, 340. 00	2, 622. 11	51, 931, 65	118. 24	36, 035, 63	18, 636, 37	54, 672, 00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2, 00	2. 5%	96.6%	1.0%	72, 6%	27, 4%	19, 600. 00	969, 30	37, 854, 18	376. 52	28, 473. 15	10, 726, 85	39, 200. 00	
¥0555	Precast PC Girder Erection (20,0 \leq W \leq 35.0 t)	t	28, 40	15, 3%	3.6%	81.0%	16. 4%	53, 6%	213, 00	925. 90	220, 47	4, 902. 83	2, 808, 54	3, 240, 66	6, 049, 20	
	Miscellaneous	I.S	1.00					Ĺ		0. 00	0, 00		0.00	0, 110	0, 00	0.0%
	Total									20, 742. 98	148, 795, 76		105, 735, 78	77, 784, 27	183, 520, 05	
	Components (%)									11.3%	8). 1%		57.6%	42, <u>4%</u>	100.0%	
L	Unit Rate	each								20, 797, 23	149, 184, 90	14, 017. 87	106, 012, 30	77, 987. 70	184, 000, 00	

	· · ·	I I				U	nit Rate						t			
ltem No.	Description	Unit	Quantity		Сол	ponent			Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	for.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
W0521	Precast PC Girder Fabrication Base Construction & Removal	g i rdet	1.00	76. 3%	11.8%	11.8%	13.0%	87. 0%	502. 00	383, 21	59, 40	59. 40	65. 34	436, 66	502.00	
₩0522	Precast PC Girder Fabrication Base Maintenance	girden	1.00	100, 0%	0, 0%	0, 0%	0.0%	100, 0%	493, 00	493. 00	0, 00	0, 00	0. 00	493, 00	493, 00	
₩0208	Concrete (Class PP, 41MPa, max agg. 20mm)	т3	12. 63	1,9%	85, 0%	13.1%	58.2%	41,8%	2, 150, 00	515.73	23, 087. 27	3, 551, 50	15, 815, 54	11, 338, 96	27, 154, 50	Loss 2.
₩0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	12. 39	18, 8%	0, 2%	81.0%	43.4%	56.6%	213, 00	495. 66	5, 17	2, 136. 11	1, 144. 89	1, 492, 06	2, 636, 94	
₩0237	Concrete Curing (reinforced concrete)	m3	12.38	74.6%	7.6%	17.8%	14.0%	86.0%	4. 21	38. 90	3, 97	9. 26	7. 27	44, 85	52.12	
W0241	Formwork (reinforced concrete HK4m)	m2	68. 53	59.3%	39, 9%	0.8%	2, 9%	97. L%	224.00	9, 100, 83	6, 129, 49	120, 40	447. 94	14, 962, 78	15, 350, 72	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	804. 00	15. 2%	77.0%	7, 8%	54.0%	46.0%	23, 30	2, 844. 98	14, 425, 57	1, 462, 65	10, 114. 98	8, 618, 22	18, 733, 20	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1, 045. 00	14.5%	77. 9%	7, 7%	54.5%	45. 5%	24, 50	3, 702. 85	19, 935. 49	1, 964, 15	L3, 948. 30	11, 654, 20	25, 602, 50	
₩Q537	PC Strand (12-T12.7, 225t) Installation for Procest PC Girder	"	44.88	4.8%	95. G%	0.2%	65, 9%	34. 1%	1,340.00	2, 884, 32	57, 124. 82	130.061	39, 639, 20	20, 500. 00	60, 139, 20	
₩0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cab}e	2. 00	2.5%	96.6%	1.0%	72.6%	27, 4%	19, 600. 00	969, 30	37, 854. 18	376, 52	28, 473, 15	10, 726, 85	39, 200, 08	
W0555	Precast PC Girder Erection (20.0 \leq W \leq 35.0 t)	l t	30, 95	15, 3%	3, 6%	81.0%	46, 4%	53, 6%	213, 00	1,009.04	240. 27	5, 343. 04	3, 060, 71	3, 531, 64	6, 592, 35	
	Miscellaneous	LS	1.00	L						0, 00	0, 00	0.00	0, 00	0.00	0, 00	0.0%
	Total			L						22, 437, 82	15R, 865. 62	15, 153, 09	112, 717, 30	83, 739, 23	196, 456, 53	
	Components (%)	1		 						11. 1%	80.9%	7.7%	57. 4%	42.6%	100.0%	
	Unit Rate	each	L_	I. I		1		1	- 1	22, 385, 68	158, 496, 45	15, 117, 87	112, 455, 36	83, 544, 64	196, 000. 00	

6(1)c	Precast Prestressed Structural Concrete	Kembe	rs (AASHIU GIF	GBE 19DE	IV L-2		nit Rate		<u> </u>			Amour	Unit:	1.00	eacii	
Item No.	Description	Unit	Quantity		Сол	nponen L		<u> </u>	Total			Component (PP)			Total	Remarks
reon mo.	best ipeson	```	ndinter v)	l.ab.		Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girden	1.00	76. 3%			13.0%	87.0%	502.00	383. 21	59. 40	59, 40	65. 34	436. 66	502. 00	
₩0522	Precast PC Girder Fabrication Base	girden	L, 00	100, 0%	Q. 0%	0.0%	0,0%	100.0%	493. 00	493. 00	0, 60	0.00	0. 00	493, 00	193. 00	
W0208	Concrete (Class PP, 41MPa, max agg, 20mm)	m3	13, 67	1.9%	85.0%	13, 1%	58, 2%	41,8%	2, 150.00	558, 20	24, 988. 36	3, 843. 94	17, 117, 85	12, 272, 65	29, 390, 50	Loss 2.
WO231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13, 40	19.8%	0.2%	81.0%	43, 4%	56, 6%	213, 00	536, 50	5, 60	2, 312. 11	1, 239, 21	1,614.99	2, 854, 20	
W0237	Concrete Curing (reinforced concrete)	m3	13, 40						4. 21	42, 10	4. 29	10. 02	7, 87	48. 54	56, 41	
W0241	Formwork (reinforced concrete IK4m)	m2	74. 65	59, 3%	39, 9%	0.8%	2.9%	97. 1%	224. 00	9, 913, 57	6, 676, 88	131, 15	187. 91	16, 233, 66	16, 721, 60	
W0251	Reinforcement Grade 40, cutting, bending & assembly	Kg	879.00	15. 2%	77, 0%	7, 8%	54.0%	16.0%	23, 30	3, 110, 37	15, 771. 24	1, 599, 09	11, 058. 54	9, 422, 16	20, 480. 70	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1, 154. 00	14.5%	77, 9%	7. 7%	54.5%	45. 5%	24, 50	4, 889, 08	22, 014. 89	2, 169. 03	15, 403. 19	12, 869, 81	28, 273, 00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	, n	48, 96	4.8%	95.0%	0, 2%	65, 9%	34, 1%	1, 340. 00	3, 146, 53	62, 317. 98	141.88	43, 242, 76	22, 363. 64	65, 606, 40	
₩0517	PC Strand (12-T12.7, 225t) Tensioning for Procast PC Girder	cable	2, 00	2. 5%	96.6%	1,0%	72.6%	27, 4%	19, 600. 00	969, 30	37, 854. 18	376. 52	28, 473, 15	10, 726, 85	39, 200, 00	
₩0536	PC Strand (10-712.7, 1901) Installation for Precast PC Girder	m	24. 48	5. 3%	94.5%	0. 2%	65, 5%	34.5%	1, 140. 00	1, 467, 63	26, 379. 07	60. 50	18, 291, 21	9, 615, 99	27, 907, 20	
₩054 6	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	1. 00	2.4%	96.7%	0.9%	72.7%	27, 3%	19, 600, 00	467. 05	18, 951. 11	181.84	14, 251. 10	5, 348. 90	19,600,00	
W0555	Precast PC Girder Erection (20,0 \leq W $<$ 35,0 t)	l t	93, 50	15.3%	3.6%	81.0%	46, 4%	53.6%	213.00	1,092,18	260.06	5, 783. 26	3, 312. 89	3, 822. 61	7, 135, 50	
	Miscellaneous	LS	1, 00					<u> </u>		0.00	0.00	U. 00	0.00	0, 00	0.00	0.0%
	Total									26, 268, 72	215, 283. 05	16, 669. 74	152, 951, 04	105, 269, 47	258, 220, 51	
	Components (%)									10. 2%	83. 4%		59. 2%	40, 8%	100.0%	
	Unit Rate	each						ł		26, 246, 29	215, 099, 21	16,654.50	162, 820, 43	105, 179, 57	258, 000, 00	

406 (1) d	Precast Prestressed Structural Concrete	Membe	rs (AASHTO Gir	der Type	IV L=2				ed				Unit:	1,00	each	
							nit Rate	<u> </u>				Amou	nt			
Item No.	Description	Unit	Quantity			popent			Total			Component (PP)			Total	Remarks
		oxdot		Lah.	Mat.	Equip.	For.	Local	(PP)	<u>Labor</u>	Material	Equipment	Foreign	Local	<u>(PP)</u>	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76, 3%	11.8%	11.8%	13, 0%	87.0%	502, 00	383, 21	59, 40	59, 40	65, 34	436, 66	502, 00	
₩0522	Precast PC Girder Pabrication Base Maintenance	gí rdo:	1.00	100,0%	0, 0%	0, 0%	0.0%	100.0%	493, 00	493.00	0, 00	0.00	н, өө	493. 00	493.00	
WO208	Concrete (Class PP, 41MPs, max agg, 20mm)	m3	14. 19	1.9%	85,0%	13.1%	58. 2%	41,8%	2, 150, 00	579, 43	25, 938, 90	3, 990. 16	17, 769, 00	12, 739, 50	30, 508, 50	Loss 2.0
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	13. 91	18.8%	0, 2%	81.0%	43.4%	56.6%	213, 00	556, 92	5, 81	2, 400. 10	1, 286. 37	1, 676, 46	2, 962. 83	
₩0237 ₩0241	Concrete Curing (reinforced concrete) Formwork (reinforced concrete UK4m)	m3 { m2	13. 91 77, 71						4. 21 224, 00	43, 70 10, 319, 94	4. 46 6, 950, 57	10. 40 136. 53	8. 17 507, 95	50, 39 16, 899, 09	58, 56 17, 407, 04	
₩0251	Reinforcement Grade 40, cutting, bending & assembly	kg	918,00	15.2%	77.0%	7.8%	54,0%	46, 0%	23, 30	3, 248, 38	16, 470, 99	1,670,04	tt,549. t9	9,840.21	21, 389, 40	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1, 177. 00	14. 5%	77. 9%	7 . 7 %	54. 5%	45. 5%	24, 50	4, 170. 58	22, 453, 66	2, 212. 26	15, 710, 19	13, 126. 31	28, 836, 50	
W0537	PC Strand (12-T12.7, 2251) Installation for Precast PC Girder	m	51, 00	4.8%	95.0%	0, 2%	65. 9%	34. 1%	1, 310, 00	3, 277, 64	64, 914, 56	147, 80	45, 044. 54	23, 295, 46	68, 340, 00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2, 00	2.5%	96, 6%	1.0%	72.6%	27, 4%	19, 600. 00	969, 30	37, 854. 18	376, 52	28, 473. 15	10, 726, 85	39, 200, 00	
₩0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	"	25, 50	5,3%	94, 5%	0,2%	65, 5%	34, 5%	1,140.00	1, 528. 78	27, 478. 20	63, 1/2	19, 053. 31	111, 016, 66	29, 070, 00	
¥0546	PC Strand (10-T12.7, 1901) Tensioning for Precast PC Girder	cable	1, 00	2.4%	96, 7%	0.9%	72.7%	27.3%	19, 600. 00	467. 05	18, 951. 11	181, 84	14, 251. 10	5, 348, 90	19, 600. 00	
₩0656	Precast PC Girder Grection (20.0 \leq W $<$ 35.0 t)	l t	34. 78	15, 3%	3, 6%	81.0%	16. 1%	53, 6%	213.00	1, 133. 91	270. 00	6, 004. 24	3, 439. 47	3, 968, 67	7, 108. 11	
L	Miscellaneous	LS	1.00	<u> </u>				L 1		0.00	0.00	0, 00	0.00	0,00	0.00	0.0%_
	Total									27, 171, 84	221, 351, 84		157, 157, 81	108, 618, 16		
	Components (%)									10, 2%	83.3%		59. UK	40.9%		
	Unit Rate	cach						I		27, 194, 74	221, 538. 42	17, 266, 84	157, 290, 28	108, 709, 72	266, 800, 00	

						U	níl Rato	·				Атои	nt			
Item No.	Description	Unit	Quantity		Cor	ponent	(%)]	· Total			Component (PP)			Total	Romarks
				Lab.	Mat,	Equip.	For.	Local	(PP)	Lahor	Maturial	Eguipment	Foreign	Local	(PP)	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girder	1.00	76.3%	11.8%	11.8%	13, 0%	87.0%	502.00	383. 21	59. 40	59. 40	65. 34	436, 66	502, 00	
₩0522	Precast PC Girder Pabrication Base Maintenance	girden	1. 00	100, 0%	0.0%	0.0%	0. 0%	100, 0%	493, 00	493. 00	4, 00	0, 00	0. 00	493, 00	493, 00	
W020B	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	18. 78	1.9%	85.0%	13.1%	58.2%	41.8%	2, 150, 00	766. 86	34, 329, 29	5, 280, 85	23, 516, 69	16, 860, 31	40, 377, 00	Loss 2.
₩0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18. 41	18. R%	0.2%	81.0%	43, 4%	56, 6%	213, 00	737. 08	7, 69	3, 176, 56	1, 702, 53	2, 218, 80	3,921.33	
₩0237	Concrete Curing (reinforced concrete)	m3	18.41	74.6%		17, 8%		86, 0%	4. 21	57, 84	5, 90	13. 77	10, 82	66, 69	77, 51	
W0241	Formwork (reinforced concrete H<4m)	m2	94, 89	59, 3%	39, 9%	0.8%	2.9%	97.1%	224, 00	12, 601, 46	9, 487, 19	166, 71	620. 24	20, 635, 12	21, 255, 36	
₩0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1, 156, 00	15, 2%	77.0%	7.8%	54, 0%	46, 0%	23, 30	4, 090. 55	20, 741, 25	2, 103, 01	14, 543. 43	12, 391, 37	26, 934, 80	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1, 471, 00	14, 5%	77.9%	7. 7%	54.5%	45. 5%	24. 50	5, 212. 34	28, 062, 31	2, 764, 85	19, 634. 40	16, 405, 10	36, 039, 50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	61. 20	4. 8%	95, 0%	0. 2%	65, 9%	34. 1%	1, 340. 00	3, 933, 17	77, 897. 48	177, 36	54, 053, 45	27, 954, 55	82, 008. 00	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2,00	2, 5%	96.6%	1.0%	72. 6%	27. 4%	19, 600, 00	969. 30	37, 854. 18	376. 52	28, 473, 15	10, 726, 85	39, 200. 00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	61. 20	5, 3%	94.5%	0, 2%	65, 5%	34.5%	1, 140, 00	3, 669. 08	65, 947. 68	151. 24	45, 728. 03	24, 039, 97	69, 768, 00	
W0546	PC Strand (10-T12.7, 190t) Tonsioning for Precast PC Girder	cable	2.00	2. 4%	96. 7%	0.9%	72. 7%	27, 3%	19, 600. 00	934, 10	37, 902. 21	363, 69	28, 502, 20	10, 697, 80	39, 200, 00	
W0556	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	t l	46, 03	7.3%	1.8%	90.9%	50, 5%	49, 5%	377. 00	1, 275, 13	308. 88	15, 769, 30	8, 765. 05	8, 588, 26	17, 353, 31	
	Miscellaneous	LS	1. UO				_			0.00	0, 00	0,00	0.00	0.00	0.00	0.0%
	Total	 								35, 123, 11	311, 603, 45	30, 403, 24	225, 615, 30	151, 514. 51	377, 129, 91	
	Components (%)	$oxed{oxed}$]	,					9.3%	82, 6%	8, 1%	59. 8%	40.2%	100.0%	
	U <u>n</u> it Rale	each				I I				35, 111, 02	311, 496, 20	30, 392, 78	225, 537, 64	151, 462, 36	377, 000, 00	

406(1) f	Precast Prestressed Structural Concrete	Membe	rs (AASHTO Gir	der Type	V-B L	=31m) 1	fabricat	ed & erc	cted				<u>Unit:</u>	1.00	each	
		!					nit Rate					Amou	n t			
Item No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Remarks
ļ				Lab,	Mat.	Eguip.	For.	Local	(PP)	l.abor	Material	Equipment	Foreign	Local	(PP)	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girdex	1,00	76.3%	11.8%	11.8%	13, 0%	H7. 0%	502. 00	383, 21	59. 40	59, 40	65. 34	436. 66	502, 00	
₩0522	Precest PC Girder Fabrication Base Maintenance	girden	1,00	100.0%	0.0%	0.0%	0, 0%	100, 0%	493.00	493, 00	0. 00	0, 00	0,00	493. 00	493, 00	
W0208	Concrete (Class PP, 41MPa, max agg, 20mm)	m3	19.36	1.9%]	85.0%	13, 1%	58. 2%	41.8%	2, 150.00	790, 54	35, 389, 51	5, 443, 94	24, 242, 98	17, 381, 02	41, 624, 90	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	18, 98	18.8%	0.2%	81.0%	43, 4%	56. 6%	213.00	759, 90	7. 93	3, 274, 91	1, 755. 24	2, 287, 50	4, 042, 74	
W0237 W0241	Concrete Curing (reinforced concrete) Formwork (reinforced concrete HK4m)	m3 m2	18, 98 97, 95	74.6% 59.3%		17.8% 0.8%	14.0% 2.9%	96, 0% 97, 1%	4. 21 224. 00	59, 63 13, 007, 83	6. 08 8, 760, 88		11, 15 640, 24	68, 76 21, 300, 56	79, 91 21, 940, 80	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1, 199, 00	ւ5. 2%	77.0%	7.8%	54, 0%	46.0%	23, 30	4, 242, 70	21, 512. 76	2, 181, 23	15, 084. 40	12, 852, 30	27, 936, 70	
¥0252	Reinforcement Grade 60, cutting, hending & assembly	kg	1, 452. 00	14.5%	77. 9%	7. 7%	54, 6%	45. 5%	24. 50	5, 145, 01	27, 699, 85	2, 729, 14	19, 380, 79	16, 193, 21	35, 574, 00	
¥0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder		63. 24	4.8%	95.0%	0, 2%	65.9%	34.1%	1, 340, 00	4, 064. 27	80, 494, 06	183. 27	55, 855, 23	28, 886, 37	84,741.60	
W0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	2.00	2.5%	96.6%	1.0%	72,6%	27. 4%	19, 600. 00	969, 30	37, 854. 18	376, 52	28, 473. 15	10, 726, 85	39, 200, 00	
W0536	PC Strand (10-T12.7, 1901) Installation for Precast PC Girder	m	63. 24	5. 3%	94, 5%	0.2%	65.5%	34, 5%	1, 140, 00	3, 791. 38	68, 145, 94	156. 28	47, 252. 29	24, 841. 31	72, 093, 60	
₩0516	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2. 00	2.4%	96, 7%	0, 9%	72.7%	27. 3%	19, 600. 00	934. 10	37, 902, 21	363, 69	28, 502. 20	10, 697, 80	39, 200, 00	
₩Q556	Precast PC Girder Erection (35,0 \leq W $<$ 60.0 t)	t	47. 45	7.3%	1.8%	90, 9%	50. 5%	49. 5%	377. 00	1, 314. 47	318, 41	16, 255, 77	9, 035. 44	8, 853. 21	17, 888. 65	
	Miscellaneous	LS	1.00	L		.				0. 00	0, 00	0.00	0.00	0.00	0.00	0.0%
	Total									35, 955, 36	318, 151. 21	31, 210, 43	230, 298. 45	155, 018, 55	385, 317.00	
	Components (%)	1								9. 3%	82, 6%	8.1%	59, 8%	40. 2%	100.0%	
L	Unit Rate	each								35, 925, 78	317, 889. 47	31, 184, 75	230, 108. 99	154, 891, 01	385, 000, 00	

406 (1) g	Precast Prestressed Structural Concrete	<u>Membe</u>	rs (AASHTO Gir	der Type	• V l.=2				ected				Unit:	1.00	each	
		1 1	•				nit Rate					Amo	ınt			
Item No.	Description	linit,	Quantity			ponent			Total	· · · · · · · · · · · · · · · · · · ·		Component (PP)			Total	Remarks
		11		Lah,	Mat.	Equip.	For.	Local	<u>(PP)</u>	Labor	Material	Equipment	Foreign	Local	(PP)	
W0521	Precast PC Girder Fabrication Base Construction & Removal	girden	1.00	76.3%	11,8%	11.8%	13.0%	87.0%	502, 00	383. 21	59, 40	59. 40	65. 34	436. 66	502. 00	
₩0522	Precast PC Girder Pabrication Base Maintenance	girder	1.00	100.0%	0, 0%	n. 0%	0, 0%	100.0%		493, 00	0.00	! I	0. 00	493, 00	493. 00	
W0208	Concrete (Class PP, 41MCa, max agg, 20mm)	m3	21, 52	1.9%	85, 0%	13.1%	50.2%	41.8%	2, 150, 00	878, 75	39, 337, 93	fi, 051, 32	26, 947, 77	19, 320, 23	46, 268. 00	Loss 2.0
₩0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	21. 10	18.8%	0. 2%	81.0%	43, 4%	56.6%	213, 00	844. 78	8, 81	3, 640, 70	1,951.29	2, 543. 01	4, 494, 30	
₩0237 ₩0241	Concrete Curing (reinforced concrete) Formwork (reinforced concrete K<4m)	m3 m2	21. 10 116. 31.	74. 6% 59. 3%					4. 21 224. 00	66, 29 15, 446, 05	6, 76 10, 403, 05		12, 40 7 6 0, 25	76. 43 25, 293. 19	88, 83 26, 053, 44	
W0251	Reinforcement Grade 40, cutling, bending & assembly	kg	0, 00	15, 2%	77.0%	7.8%	54.0%	46.0%	23, 30	0. 00	0, 00	0, 00	0.00	0, 00	0.00	
WO252	Reinforcement Grade 68, cutting, bending & assembly	kg	4, 387. 67	14, 5%	77, 9%	7.7%	54.5%	15. 5%	24, 50	15, 547, 26	83, 703, 71	8, 246, 95	58, 565, to	4 8, 93 2 . 82	107, 497. 92	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	59, 98	4.8%	95, 0%	0, 2%	65, 9%	34. 1%	1, 340, 00	3, 854, 76	76, 344. 62	173. 82	62, 975, 91	27, 397. 29	80, 373, 20	
W0547	PC Strand (12-T12.7, 225t) Tensioning For Precast PC Girder	cable	2.00	2, 5%	96.6%	1.0%	72.6%	27. 4%	19, 600. 00	969, 30	37, 854, 18	376. 52	28, 473. 15	10, 726, 85	39, 200. 00	
W0536	PC Strand (10-T12.7, 1901) Installation for Precast PC Girder	l m	59. 98	5. 3%	94, 5%	0. 2%	65.5%	34, 5%	1, 140, 00	3, 595, 93	64, 633, 04	148, 23	44, 816. 45	23, 560, 75	68, 377, 20	
W0546	PC Strand (10-T12.7, 1981) Tensioning For Precast PC Girder	cable	2.00	2, 4%	96. 7%	0.9%	72. 7%	27.3%	19, 600, 00	934, 10	37, 902. 21	363, 69	28, 502, 20	10, 697, 80	39, 200, 00	
W0556	Precast PC Girder Erection (35.0 \leq W < 60.0 t)	ι	52.75	7.3%	t. 8%	90.9%	50.5%	49. 5%	377, 00	1, 461. 29	353, 98	18, 071. 49	10, 044, 67	9, 842. 08	19, 886, 75	
_	Miscellaneous	LS	£. 00							0,00	0,00	8.00	0,00	0, 00	0.00	0.0%
	Total									44, 474, 72	350, 607. 68		253, 114, 53	179, 320, 11	432, 434, 64	
	Components (%)	Ļ								10.3%	81. 1%	8.6%	58, 5%	41.5%	100.0%	
	Unit Rate	each				لتـــــــــــــــــــــــــــــــــــــ			i	44, 430. 02	350, 255, 29	37, 314, 69	252, 860, 12	179, 139, 88	432, 000, 00	

106 (1) h	Precast Prestressed Structural Concrete	Membe	r (AASHTO Gird	er Type	V 1=29				cted				Unit:	t. 00	each	
		l l					nil Rate					Amot	ant			
Item No.	Description	Unit	Quantity			ponent (Teta)			Component (PP)			Total (PP)	Remarks
	Precast PC Girder Fabrication Base	\		Lab.	MAT.	Equip.	For.	Local	(PP)	Lahor	Material	Equipment	Foreign	Local	(PP)	
₩0521	Construction & Removal	girden	1,00	76. 3%	11.8%	11.8%	13.0%	87.0%	502.00	383, 21	59. 40	59. 40	65, 34	436. 66	502, 00	
₩0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100, 0%	0.0%	0.0%	0.0%	100.0%	493. 00	493, 00	0. 00	0.00	0, 00	493. 00	493, 00	
¥0268	Concrete (Class PP, 41MPs, max agg, 20mm)	т3	21.62	1.9%	85.0%	13.1%	58.2%	41.8%	2, 150, 00	882. 83	39, 520, 73	6, 079. 44	27, 072, 99	19, 410, 01	46, 483, 00	Loss 2
₩0231	Concrete Pouring by Fump Vehicle (plain concrete)	m3	21. 20	19, 8%	0. 2%	BL.0%	43, 4%	56.6%	213,00	848. 79	8, 85	3, 657. 96	1, 960, 54	2, 555, 06.	4, 515, 60	
WO237 WO241	Concrete Curing (reinforced concrete) Formwork (reinforced concrete HK4m)	m3 m2	21.20 116.92			17. 8% 0. 8%		86.0% 97.1%	4, 21 224, 00	66, 60 15, 527, 06	6, 79 L0, 457, 61	15. 85 205. 41	12, 46 764, 24	76, 79 25, 425, 84	89, 25 26, 190, 08	
W0251	Reinforcement Grade 40, cutting, hending assembly	kg	0.00	l t		7.8%	54.0%	46.0%	23, 30	0.00	0. 00	i 1	0.00	0, 00	0, 00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	4, 396, 75	14.5%	77. 9%	7, 7%	54.5%	45.5%	24, 50	15, 579, 42	83, 876, 83	9, 264. 01	58, 686, 22	49, 034. 03	107, 720. 25	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	60, 28	4.8%	95.0%	0, 2%	65, 9%	34. 1%	1, 340, 00	3, 874. 04	76, 726, 47	174. 69	53, 240, 88	27, 534, 32	80, 775, 20	
W0547	PC Strand (12-712.7, 225t) Tensioning for Precast PC Girder	cable	2, 60	2.5%	96, 6%	1.0%	72,6%	27. 4%	19, 600. 00	969, 30	37, 854, 18	376. 52	28, 473. 15	10, 726, 85	39, 200, 00	
W0536	PC Strand (10-712.7, 190t) Installation for Precast PC Girder	m	60. 28	5, 3%	94.5%	0.2%	65. 5%	34, 5%	1, 140. 00	3, 613, 92	64, 956. 31	148, 97	45, 040, 61	23, 678. 59	68, 719, 20	
W0546	PC Strand (10-T12.7, 190t) Tensioning for Precast PC Girder	cable	2.00	2, 4%	96, 7%	ø. 9 %	72. 7%	27. 3%	19, 600. 00	934, 10	37, 902. 21	363, 69	28, 502. 20	10, 697. 80	39, 200, 00	
W055fi	Precast PC Girder Erection (35.0 ≤ W < 60.0 t)	ι	53.00	7. 3%	1.8%	90, 9%	50.5%	49.5%	377, 00	1, 468, 21	355. 66	18, 157, 13	10, 092. 27	9, 888. 73	19, 981, 00	
	Miscel laneous	LS	1.00	L		l		L	i	0.00	0.00	0.00	_0.00	0.00	0, 00	0
	Tota]									44, 640. 48	351, 725. D3	37, 503. 07	253, 910. 90	_179, 957. 68	433, 868. 5 <u>8</u>	
	Components (%)									10, 3%	81.1%	9, 6%	58, 5%	41. 5%	100, 0%	
	Unit Rate	each								44, 654, 00	351,831,57	37, 514, 43	253, 987, 81	180, 012, 19	434, 000. 00	

406(1) i	Precast Prestressed Structural Concrete	Membe	rs (AASHTO Gir	der Type	•V L=33				ted				linit:	1, 00	each	
							nit Rate					Λmou	ın L			
Item No.	Description	Unit	Quantity			ponent			Tota)			Component (PP)			Tatal	Remarks
	· ,	\Box		Lab.	Mat.	Equip.	For,	Local	(PP)	Labor	Material	<u>Equipment</u>	Foreign	Local	(PP)	
₩0521	Precast PC Girder Fabrication Base Construction & Removal	girden	1.00	76, 3%	ll.8%	11.8%	13.0%	87.0%	502. 00	383. 21	59. 40	59. 40	65, 34	436, 66	502, 00	
₩0522	Precast PC Girder Pabrication Base Maintenance	girder	1,00	100.0%	0, 0%	0, 0%	0, 0%	100, 0%	493. 00	493, 00	0.00	0. 00	0, 00	493. 00	493, 00	
W0208	Concrete (Class PP, 41MPa, max agg, 20mm)	m3	24. 26	1.9%	85.0%	13.1%	58, 2%	41.8%	2, 150, 00	990, 63	44, 346. 57	6, 821, 80	30, 378, 85	21,780.15	52, 159, 00	Loss 2.09
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	23, 78		0, 2%	91.0%	43.4%	56.6%	213.00	952. 08	9, 93	4, 103, 13	2, 199. 14	2, 866, 00	5, 065, 14	
W0237 W0241	Concrete Curing (reinforced concrete) Formwork (reinforced concrete NK4m)	m3 m2	23, 78 132, 80				14.0% 2.9%		4, 21 224. 00	74. 71 17, 635, 94	7, 62 11, 877, 95		13. 97 868, 04	86, 14 28, 879, 16,	100, 11 29, 747, 20	
WO251	Reinforcement Grade 40, cutting, bending & assembly	kg	1, 975. 00	15.2%	77.0%	7.8%	54.0%	46, 0%	23. 30	6, 988, 61	35, 435. 95		24, 847. 12	21, 170, 38	46, 017, 50	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1, 612, 00	14.5%	77.9%	7.7%	54.5%	45. 5%	24. 50	5, 711, 96	30, 752. 17	3, 029. 87	21, 516. 42	17, 977. 58	39, 494. 00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	102, 51	4.8%	95.0%	0.2%	65, 9%	34. 1%	1, 340, 00	6, 588. 06	130, 478, 27	297. 07	90, 639. 53	46, 823, 87	137, 363. 40	
₩0547	PC Strand (12-T12.7, 225t) Tensioning For Precast PC Girder	cable	3. 00	2.5%	96. 6%	1.0%	72, 6%	27. 4%	19, 600, 00	1, 453, 95	56, 781, 27	564. 78	42, 709. 72	16, 090, 28	58, 800, 00	
₩0535	PC Strand (8-T12.7, 150t) Installation for Precast PC Girder	ın	68. 34	5, 9%	93, 9%	0.2%	ศ5. 0%	35.0%	934, 00	3, 769. 38	59, 921, 38	138.80	41, 495, 97	22, 333, 69	63, 829, 56	
₩0545	PC Strand (8-Ti2.7, 1501) Tensioning For Precast PC Girder	cable	2.00	3.0%	96. OX	1.1%	72. 2%	27.8%	14, 600, 00	867. 83	28, 020. 27	311.90	21, 093. 73	8, 106, 27	29, 200. 00	
WU556	Precast PC Girder Erection (35.0 \leq W < 60.0 t)	t	59, 45	: I	1.8%	90.9%	50, 5%	49. 5%	377. 00	1, 646, 89	398. 94	20, 366, 82	11, 320, 49	11, 092, 16		
	Miscellancous	LS	1.00							0.00	0, 00		0.80	0.00		0.0%
L	Total									47, 556, 23	398, 089, 73		287, 048, 30	198, 135, 26		
	Components (%)			Ĺ						9. 8%	82.0%	8.1%	59, 2%	40.8%	100.0%	
	Unit Kate	each		I ``				1 7		47, 538, 24	397, 939, 12	39, 522, 64	286, 939, 70	198, 060, 30	485, 000, 00	-

406 (1) j	Precast Prestressed Structural Concrete	Membe	ers (AASHTO Gir	der Type	• VI L≃3				ted				Unit:	1,00	each	
		l.,l					nit Ratu	2				Атои	nt			
Item No.	Description	Unit	Quantity	Lab.		Equip.		Local	Total (PP)	Labor	Material	Companent (PP)	- B	Local	Total (PP)	Remarks
₩052 l	Precast PC Girder Pabrication Base Construction & Removal	girden	1.00	$\overline{}$					502.00	383. 21	Maceriai 59, 40	Equipment 59.40	Foreign 65, 34	436. 66	502, 00	
W0522	Precast PC Girder Pabrication Base Maintenance	girden		100.0%	n, 0%	''''		100.0%	493. 00	493, 00	0,00	0.00	0. 00	493,00	493, 00	
W0208	Concrete (Class PP, 41MPs, max agg, 20nm)	m3	27. 33	1.9%	85, 0%	13.1%	58, 2%	41.8%	2, 150, 00	1, 115. 99	49, 958, 44	7, 685, 07	34, 223, 17	24, 536, 33	58, 759, 50	Loss 2.
₩0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	°26, 79	l I				'	213, 00	1,072.59	11. 19	4, 622, 49	2, 477, 50	3, 228. 77	5, 706. 27	
₩0237 ₩0241	Concrete Curing (reinforced concrete) Formwork (reinforced concrete K4m)	m3 m2	26. 79 154. 83	74.6% 59,3%	7, 6% 39, 9%				4, 21 224, 00	84. 17 20, 561. 54	8, 59 13, 848, 37	20. 03 272. 02	15, 74 1, 012, 04	97, 05 33, 669, 88	112, 79 34, 681, 92	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	1, 936. 00	15, 2%	77.0%	7. 8%	54. 0%	46.0%	23, 30	6, 850, 60	34, 736. 20	3, 521, 99	24, 356, 47	20, 752, 33	45, 108, 80	
WO252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,677.00	14, 5%	77.9%	7.7%	54. 5%	45.5%	24, 50	5, 942. 28	31, 992. 18	3, 152. 05	22, 384. 01	18, 702. 49	41, 086, 50	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m	107. 10	4.8%	95.0%	U, 2%	65. 9%	34.1%	1, 340. 00	6, 883, 04	136, 320. 58	310, 37	94, 593. 54	48, 920. 46	143, \$14, 00	
W0547	PC Strand (12-T(2.7, 225)) Tensioning for Precast PC Girder	cable	3. 00	2.5%	96, 6%	1.0%	72, 6%	27.4%	19, 600, 00	1, 453, 95	56, 781. 27	564, 78	42, 709. 72	16, 090, 28	58, 800. 00	
W0536	PC Strand (10-T12.7, 190t) Installation For Precast PC Girder	m	71.40	5.3%	94. 5%	0, 2%	65.5%	31.5%	1, 140, 00	4, 280. 59	76, 938, 96	176. 45	53, 349, 36	28, 046, 64	91, 396, 00	
W0546	PC Strand (10-712.7, 190t) Tensioning for Precast PC Girder	cable	2, 00	2.4%	96. 7%	0, 9%	72. 7%	27.3%	19, 600, 00	934. 10	37, 902, 21	363. 69	28, 502. 20	10, 697. 80	39, 200, 00	
W0557	Precast PC Girder Erection (60.0 \leq W < 75.0 t)	l l	66, 98	6. 2%	1.8%	92, 0%	51.1%	48. 9%	423. 00	1,768,11	509, 31	26, 055, 12	14, 483, 13	13, 849, 41	28, 332, 54	
	Miscellaneous	I.S	1.00					L		0.00	0, 00	0.00	0, 00	- 0.00	0.00	0.0%
	Total					l				51, 823, 17	439, 866, 69	46, 803, 45	318, 172. 20	219, 521, 12	537, 693, 32	
	Components (%)	$oxed{oxed}$								9, 6%	81, 7 <u>%</u>	8, 7%	59, 2%	40.8%	100.0%	
	Unit Kate	each								51, 852, 73	439, 317, 12	46, 830. 15	318, 353, 68	219, 646, 32	538, 000, 00	

406 (1) k	Precast Prestressed Structural Concrete	Membe	rs (AASHTO Gir	der Type	VI I.=3				ad				Unit:	1.00	each	
	B	l i	0				nit Rate	· · · · · ·				Amor	In L		7 . 1	Remarks
Item No.	Description	Unit	Quantity	Lab.		Equip.		Local	Total (PPI	Labor	Material	Companent (PP) Equipment	Foreign	Local	Total (PP)	кетагкя
₩0521	Procest PC Girder Fabrication Base Construction & Removal	girder	1.00			11.8%			502.00	383. 21	59, 40	59. 40	65, 34	436, 66	502, 00	
W0522	Precast PC Girder Pabrication Base Maintenance	girden			0.0%				493, 00	493. 00	0, 00	i 1	0, 00	493.00	493, 00	
W0208	Concrete (Class PP, 41MPa, max agg, 20mm)	m3	28. 04	1, 9%	85, U%	13.1%	58.2%	41.8%	2, 150, 00	1, 144, 98	51, 256, 30	7, 884, 72	35, 112, 24	25, 173. 76	60, 286, 00	Loss 2.
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	27, 49	18, 8%	0. 2%	81.0%	43, 4%	66.6%	213.00	1, 100, 62	11.48		2, 542. 23	3, 313, 14	5, 855. 37	
W0237	Concrete Curing (reinforced concrete)	m3.	27, 49	74.6%	7.6%		14,0%	86,0%	4.21	86, 37	8.81		16, 15	99, 58	115, 73	
W0241	Formwork (reinforced concrete IK4m)	m2	159. 31	59. 3%	39, 9%	0.8%	2.9%	97. 1%	224, 00	21, 156. 48	14, 249, 07	279.89	1,041.32	34, 644. 12	35, 685, 44	
₩0251	Reinforcement Grade 40, cutting, bending & assembly	kg	2, 017. 00	15, 2%	77.0%	7.8%	54.0%	46.0%	23, 30	7, 137. 23	36, 189, 53	3, 669. 35	25, 375, 51	21, 620, 59	46, 996, 10	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1,721.00	14.5%	77. 9%	7.7%	54, 5%	45. 5%	24, 50	6, 998. (9	32, 891, 57	3, 234. 75	22, 971. 31	19, 193. 19	42, 164, 50	
₩0537	PC Strand (12-712.7, 225t) Installation for Precast PC Girder	170	110, 16	4.8%	95.0%	v. 2%	65.9%	34.1%	1, 340.00	7, 079. 70	140, 215. 46	319. 24	97, 296. 21	50, 318, 19	147, 614, 40	
₩0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	3, 00	2.5%	96, 6%	1.0%	*72.6%	27.4%	19, 600, 00	l, 453. 95	56, 781, 27	564. 78	42, 709. 72	16, 090, 28	58, 800. 00	
W0536	PC Strand (10-T12.7, 190t) Installation for Precast PC Girder	m	73, 44	5. 3%	94, 5%	0, 2%	65.5%	34. 5%	1, 149, 80	4, 402. 89	79, 137, 22	181. 49	54, 873, 63	28, 847, 97	83, 721, 60	
₩0546	PC Strand (10-712.7, 1901) Tensioning for Precast PC Girder	cable	2,00	2.4%	96.7%	0, 9%	72.7%	27.3%	(9, 600, 00	934. (0	37, 902, 21	363.69	28, 502, 20	10, 697, 80	39, 200, 00	
W0557	Procest PC Girder Erection (60.0 \leq W < 75.0 t)	t	68, 73	6, 2%	1.8%	92.0%	51, 1%	48.9%	423. 00	1, 814. 30	522, 61	26, 735, 87	14, 861, 53	14, 211, 26	29, 072, 79	
	Miscellaneous	I.S	I.00			L				0.00	0.00	v. 00	0, 00	0,00	0.00	0.0%
	Total									53, 285. 02	449, 164, 92	48, 056, 99	325, 367. 19	225, 139, 54	550, 506, 93	
	Components (%)									9. 7%	81,6%	8.7%	_59.1%	40.9%	100, 0%	
	Unit Hate	each		- }						53, 332, 75	449, 567, 22	48, 100, 63	325, 658, 81	225, 341, 19	551,000.00	

406(1)1	Precest Prestressed Structural Concrete	Membe	rs (AASHTO Gir	der Type	VI (mod	1) 1.=39.	4m), fat	ricated	& erected				Unit:	1,00 6	each	
		1 1					nit Rate					Аточ	nt			
Item No.	Description	Unit	Quantity			nponent			Total			Component (PP)			Total	Remarks
		11		Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Eguipment	Foreign	l.oca I	(PP)	
W0521	Precast PC Girder Fahrication Base Construction & Removal	girde	1.00	76, 3%	11,8%	11.8%	13.0%	87.0%	502.00	383, 21	59. 40	59, 40	65. 34	436, 66	502, 00	
W0522	Precast PC Girder Fabrication Base Maintenance	girder	1.00	100.0%	0.0%	ø. 0%	0.0%	100.0%	493, 00	493. 00	0.00	0. 00	0. 00	493, 00	493, 00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	Em	32, 18	1.9%	85.0%	13.1%	58.2%	41.8%	2, 150, 00	1,314,04	58, 824, 10	9, 048, 87	40, 296, 43	28, 890, 57	69, 187. 00	Loss 2.0
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.55	18.8%	0. 2%	81.0%	43. 4%	56.6%	213, 00	1, 263, 17	13. 18	5, 443. 80	2, 917. 69	3, 802. 46	6, 720, 15	
W0237	Concrete Curing (reinforced concrete)	m3	31.55				14.0%	86.0%	4, 21	99, 13	10, 11	23. 59	18. 54	114, 29	132, 83	
W0241	Formwork (reinforced concrete HC4m)	m2	188, 02	59, 3%	39.9%	0.8%	2.9%	97, 1%	224.00	24, 969, 19	16, 816, 96	330. 33	1, 228, 98	40, 887, 50	42, 116, 48	
¥0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4, 298. 00	15. 2%	77.0%	7.8%	54.0%	46.0%	23. 30	15, 208. 62	77, 115, 81	7, 818. 97	54, 072, 36	46, 071, 04	100, 143, 40	
₩0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3, 674, 00	14.5%	77. 9%	7, 7%	54.5%	45, 5%	24, 50	13, 018. 44	70, 089. 00	6, 905. 55	49, 039, 27	40, 973, 73	90, 013, 00	
W0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder) m	200. 94	4,8%	95, 0%	0.2%	65.9%	34, 1%	1, 340. 00	12, 913, 90	255, 763. 38	582. 32	177, 475, 49	91, 784. 11	269, 259, 60	
₩0547	PC Strand (12-T12.7, 225t) Tensioning For Precast PC Girder	cable	5.00	2.5%	96, 6%	1.0%	72.6%	27. 1%	19, 600, 60	2, 423, 25	94, 635. 45	941, 30	71, 182. 86	26, 917, 14	98, 000, 00	
W0558	Precast PC Girder Erection (75.0 \leq W $<$ 80.0 t)	t	78.88	5. 7%	1.8%	92.5%	51.4%	18. 6%	430, 00	1, 947, 93	612. 34	31, 350. 13	17, 435, 22	16, 483, 18	33, 918, 40	
L	Miscellaneous	LS	1.00	\	<u> </u>	\	\	١	\	0.00	0.00	0,00	0, 00]	0.00	0, 00	0.0% _
	Total									74, 033. 88	573, 939, 72	62, 512. 26	413, 732, 19	296, 753, 67	710, 485. 86	
	Components (%)	ļ								10, 4%	80.8%	9,8%	58. 2%	41.8%	100, 0%	
	Unit Rate	each		1 - :	1			1		73, 983, 25	573, 547, 24	62, 469, 51	413, 449, 26	296, 550, 74	710, 000, 00	

406(1)m	Precest Prestressed Structural Concrete	Membe	TR (MASHIO GIF	der 14b	AT (IBOTI		nil Rate		a or alacran			Anso	Unit:	1.00	oach	
Item No.	Description	Unit	Quantity		Con	nponen t			Total			Component (PP)	unc		Tota!	Remarks
TECHT 110.	B65011011011		4.2	l.ab.	Mat.	Equip.		Local	(97)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0521	Procest PC Girder Fabrication Base Construction & Removal	girdeı	1.00	76, 3%	11.8%	11, 8%	13.0%	87.0%	502, 00	383, 21	59. 40		65, 34	436. 66	502, 00	
W0522	Precast PC Girder Fabrication Base Maintenance	girde	1.00	100.0%	0.0%	0.0%	0.0%	100.0%	493.00	493, 00	0, 00	0.00	0, 100	493, 00	493.00	
W0208	Concrete (Class PP, 41MPa, max agg, 20mm)	m3	32, 29	1.9%	85,0%	13.1%	58.2%	41.8%	2, 150. 00	1, 318, 53	59, 025, 17	9, 079. 80	40, 434. 18	28, 989, 32	69, 423, 50	Loss 2,0
#0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31.66	18.8%	0. 2%	81.0%	43, 4%	56.6%	213.00	1, 267, 57	13. 22	5, 462, 78	2, 927. 87	3, 815. 71	6, 743, 58	
₩0237	Concrete Curing (reinforced concrete)	m3	31.66						4. 21	99. 47	10. 15		18.60	114, 69	133, 29	
W0241	Formwork (reinforced concrete IK4m)	m2	188, 74	59, 3%	39.9%	0,8%	2.9%	97, 1%	224.00	25, 064, 81	16, 891, 36	331.59	1, 233, 69	41,044.07	42, 277. 76	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	4, 386, 00	15. 2%	77, 0%	7, 8%	54.0%	46.0%	23. 30	15, 520, 01	78, 694. 73	7, 979, 06	55, 179. 48	47, 014. 32	102, 193, 80	
₩0252	Reinforcement Grade 60, cutting, bending & assembly	kg	3, 572, 00	14.5%	77, 9%	7. 7%	54.5%	45, 5%	24. 50	12, 657, 02	68, 143, 15	6, 713. 84	47, 677. 81	39, 836. 19	87, 514, 00	
W)537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	l a	201. 71	4.8%	95, 0%	0,2%	65. 9%	34. 1%	1, 340, 00	12, 963, 39	256, 743, 46	584. 55	178, 155. 58	92, 135, 82	270, 291. 40	
₩0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5,00	2.5%	96.6%	1.0%	72.6%	27, 4%	19, 600. 00	2, 423. 25	94, 635, 45	941.30	71, 182. 86	26, 817. 14	98, 000, 00	
W0558	Precast PC Girder Erection (75.0 ≤ W < 80.0 t)	ι	79. 16	5. 7%	1, 8%	92, 5%	51.4%	48.6%	430, 00	1, 954. 60	614, 43	31, 465, 47	17, 494. 90	16, 539, 60	34, 034. 50	
	Miscellancous	LS	1, 00			,				0.00	0.00		0, 00	0, 00		0.0%
	Total									74, 144, 85	574, 820, 52		414, 370, 29			
	Components (%)			ļ						10. 4%			5B. 2%	41, 8%	100.0%	
	Unit Rate	cach					1			74, 185, 82	575, 138, 11	62, 676, 07	414, 599, 24	297, 400, 76	712, 000, 00	

406(1) n	Precast Prestressed Structural Concrete	Membe	ers (AASHTO Gir	der Type	VI (mod	l) L=40m)	, fabri	cated &	erected				Hnit:	L.Q0	each	
1							nit Rate)				Атос	int			
ltem No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Remarks
<u> </u>		\vdash		Lab.	Mat.	Equip,	For.	Local	(PP)	Labor	Material	<u>Equipment</u>	Foreign	Local	(PP)	
W0521	Precest PC Girder Fabrication Rese Construction & Removal	girder	1.00	76, 3%	11.8%	11,8%	13.0%	87, Q%	502.00	383, 21	59. 40	69, 40	65, 34	436, 66	502, 00	
W0522	Precast PC Girder Fabrication Base Maintenance	girde	1,00	100.0%	0, 0%	0.0%	0, 0%	100, 0%	493, 00	493. 00	0, 00	0, 00	0, 00	493. 00	493, 00	
W0208	Concrete (Class PP, 41MPa, max agg. 20mm)	m3	32. 62	1,9%	85.0%	13, 1%	58, 2%	41.8%	2, 150, 00	1, 332, 00	59, 628, 40	9, 172, 59	40, 847, 41	29, 285, 59	70, 133, 00	Loss 2.0%
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	31, 98	18, 8%	0.2%	81.0%	43, 4%	56, 6%	213.00	1, 280, 39	13, 36	5, 518, 00	2, 957. 46	3, 854, 28	6,811.74	
W0237	Concrete Curing (reinforced concrete)	m3	31.98			17, 8%	14.0%	86.0%	4, 21	100, 48	10. 25	23, 91	18. 79	115, 85	134. 64	
W0241	Formwork (reinforced concrete IK4m)	m2	190, 92	59, 3%	39, 9%	0.8%	2.9%	97.1%	224.00	25, 354, 31	17, 076, 35	335, 42	1, 247, 94	41, 518, 14	42, 766, 08	
W0251	Reinforcement Grade 40, cutting, bending & assembly	kg	3, 060. 00	15. 2%	77.0%	7.8%	54.0%	46.0%	23, 30	10, 827, 92	54, 903, 30	5, 566. 78	38, 497, 31	32, 800, 69	71, 298. 00	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	1, 895, 00	14.5%	77. 9%	7, 7%	54.5%	45, 5%	24.50	6, 714, 74	36, 150. 97	3, 561, 79	25, 293. 80	21, 133, 70	46, 427. 50	
₩0537	PC Strand (12-T12.7, 225t) Installation for Precast PC Girder	m.	204. 00	4.8%	95, 0%	0.2%	65, 9%	34, 1%	1, 340. 00	13, 110, 56	259, 658, 25	591. 18	180, 178. 17	93, 181. 83	273, 360, 00	
₩0547	PC Strand (12-T12.7, 225t) Tensioning for Precast PC Girder	cable	5. 00	2, 5%	96.6%	1.0%	72.6%	27. 4%	19, 600. 00	2, 423, 25	94, 635. 45	941, 30	71, 182, 86	26, 817. 14	98, 000, 00	
₩0558	Process PC Girder Erection (75.0 \leq \mathbb{W} < 80.0 t)	t	79. 95	5.7%	1.8%	92.5%	51.4%	48.6%	430, 00	1, 974, 35	620, 64	31, 783, 50	17, 671, 72	16, 706, 78	34, 378, 50	
L	Miscellaneous	LS	1, 00							0, 40	0.00		0.00	0, 00	0, 00	0.0%
<u></u>	Total									63, 994. 21	522, 756. 36		377, 960, 79	266, 343, 67		
ļ	Components (%)									9.9%	81, 1%	8.9%	58. 7%	41.3%	100.0%	
L	Unit Rate	each						L		63, <u>96</u> 3, 97	522, 509, 34	57, 526, 69	377, 782. 19	266, 217, 81	644, 000, 00	

						U	nit Rate	9				Amour	nt			
Item No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Component_(PP)			Total	Rumarks
	<u> </u>	11		Lab.	Mat,	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PF)	
W0208	Concrete (Class PP, 41MPs, max agg, 20mm)	m3	27. 78	1.9%	85, 0%	13.1%	58, 2%	41.8%	2, [50.00	1, 134, 37	50, 781, 03	7,811.61	34, 786. 67	24, 940, 33	59, 727, 00	Loss 2.
W0231	Concrete Pouring by Pump Vehicle (plain concrete)	m3	27. 21	18.8%	0, 2%	81.0%	43, 4%	56.6%	213.00	1, 090, 61	11, 38	4, 700. 13	2,519,11	3, 283, 01	5, 802, 12	
W0237	Concrete Curing (reinforced concrete)	m3	27.24	74.6%	7, 8%	17,8%	14.0%	86.0%	4.21	85.58	8.73	20, 37	. 16.00	98, 68	114.68	
₩0241	Formwork (reinforced concrete IK4m)	m2	55, 63	59, 3%	39.9%	0.8%	2.9%	97.1%	224, 00	7, 387, 70	4, 975. 68	97, 73	363, 62	12, 097, 50	12, 461, 12	
W0252	Reinforcement Grade 60, cutting, bending & assembly	kg	7, 844. 22	14.5%	77. 9%	7.7%	54.5%	45, 5%	24, 50	27, 795. 19	149, 644. 43	14, 743, 79	104, 701, 94	87, 481. 48	192, 183, 42	
W0538	PC Strand (1-T15.2, 30t) Installation for Precast PC Deck Stab	n	900, 00	8. 2%	91,6%	0.2%	62.8%	37. 2%	216, 00	15, 924. 01	178, 955. 46	420. 53	122, 038, 06	72, 361, 94	194, 400. 00	
¥0548	PC Strand (1-715.2, 30t) Tensioning for Precast PC Dock Slah	cable	90. 45	4. 9%	93, 5%	1.7%	70. 7%	29. 3%	2, 060, 00	9, 837. 17	174, 191, 34	· 1	131, 746, 17	54, 580, 83	186, 327, 00	
¥0551	Precest PC Girder Erection (# < (2.5t)	} t }	68. 10	25, 1%	3, 9%	□ 70,9%)	41.1%	58.9%	218,00	3, 731, 68	583, 75	10, 530, 37	6, 106, 79	8, 739, 01	14, 845, 80	
W0549	Secondary Concrete for Precest PC Deck Slab	m3	3, 78	6,0%	74, 0%	20.0%	55.3%	14.7%	2, 140, 00	483, 57	5, 985. 80	1, 619, 83	4, 473. 76	3, 615. 44	8, 089, 20	
	Miscellaneous	LS	<u>1. UO</u>							0.00	0.00	0, 00	0.00	<u>0.00</u>	0, 00	0, 0%
	Total									66, 669, 88	564, 237, 60	43, 042, 96	406, 752, 10	267, 198, 24	673, 950, 34	
	Components (%)					I				9, 9%	83. 7%	6.4%	60.4%	39.6%	100.0%	
	Unit Rate	m2						! [i	666, 75	5, 642, 79	430, 46	4, 067, 82	2, 672, 18	6, 740, 00	

	·		•			17	nit Rate					_ Атоиг	<u> </u>			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remark
				Lab.	Mat.	Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
₩0671	PC Cable Installation, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	t	1.00	11.5%	84, 4%	4, 1%	60, 4%	39.6%	153, 000. 00	17, 664. 93	129, 167, 28	6, 267. 80	92, 457, 23	60, 542. 77	153, 000, 00	
W0672	PC Cable Anchorage, (12-T12.7, 2251) for PC Box Girder (Longitudinal)	each	3, 25	0.9%	92.4%	6, 7%	71.0%	29. 0%	12, 900. 00	393, 99	39, 736, 01	2, 795. 00	29, 750. 76	12, 174. 24	41, 925, 00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) for PC Box Girder (Longitudinal)	each	3, 25	6.3%	87, 5%	6.2%	69, 3%	31.7%	9, 560. 00	1, 956, 56	27, 197. 95	1,915,49	21, 231, 7 5	9, 838. 25	31,070,00	
	Misceltaneous	LS	_1. 00°	ł				1		0.00	0.00	0.00	B. 00	0.00	0.00	0. 09
	Total									19, 915, 48	195, 101. 23	10, 978, 29	[43, 439, 74]	82,555,26	225, 995, 00	
_	Components (%)									8. 6%	86.3%	1.9%	63, 5%	36, 5%	100.0%	
	Unit Rate	kg						!		19. 92	195. 11	10. 98	143, 44	82. 56	226, 00	

406 (3) b	Prestressing Steel 5-T12.7 for PC Box (irders	of Angat_Brid	ge, Tra	nsverse	l in Top	Slab						Unit:	t, 000, 00 l	kg	
						IJ	nit Rate	ė				Алои	nt			
Item No.	Description	Unit	Quantily		Cor	nponen L	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	l.ocal	(PP)	Labor	Material	Equipment	Poreign	tocal	(PP)	
W0676	PC Cable Installation, (5-712.7, 90t) for PC Box Girder (Transversal)	t	1,00	11.2%	84, 7%	4.1%	60.6%	39. 4%	152, 000. 00	17, 052. 66	128, 707. 70	6, 239, 65	92, 129. 09	59, 870. 91	152, 000. 00	
W0677	PC Cable Anchorage, (5-T12, 7, 90t) for PC Box Girder (Transversal)	each	26, 77	5.0%	86.7%	8, 3%	67.1%	32. 9%	(, 680. 00	2, 263, 34	38, 998. 15	3, 712. 11	30, 176, 64	14, 796. 96	44, 973, 60	
W0678	PC Cable Tensioning, (5-T12.7, 90t) for PC Box Girder (Transversal)	each	26, 77	40, 1%	23.4%	36.5%	34, 6%	65. 4%	823.00	8, 824, 97	5, 159, 99	8, 046. 75	7, 620, 41	14, 411. 30	22, 031, 71	
1	Miscellaneous	LS.	1,00			l		L		0, 00	0.00	0.00	0.00	0,00	0, 00	0.0%
	Total	T								28, 140, 97	172, 865, 84	17, 998, 50	129, 926, 14	89, 079, 17	219, 005, 31	
	Components (%)]		12.8%	78. 9%	8.2%	59. 3%	40. 7%	100.0%	
	Unit Kate	kg						1		28. 14	172. 86	18.00	129, 92	89.08	219, 00	
	Total weight of PC cables	=	28, 992. 0	kg			Tot	al numbe	rs of cables =	776						

							nit Rate	•				Amou	nt			
Item No.	Description	Unit	Quantity		Cor	nponen t	(%)		Total			Component (PP)			Total	Romarks
		l		Lab.	Mat.	Eguip.	For.	Lucal	(PP)	Labor	Material	Equipment	l'oreign	Local	(PP)	
W0681	PC Bar Installation, (1-φ32mm) for PC Box Girder (Transversal)	'	1.00	5. 7%	91, 1%	3, 3%	64, 8%	35. 2%	157, 000. 00	8, 924, 58	142, 971. 83	5, 103, 59	101, 781. 65	56, 218. 35	157, 000. 00	
W0682	PC Bar Anchorage, (1-632mm) for PC Box Girder (Transversal)	each	29, 12	2. 4%	92.0%	5, 5%	70, 4%	29, 6%	1, 810. 00	1, 287, 60	48, 511, 62	2, 907. 98	37, 110, 71	15, 596. 49	52, 707, 20	
W0683	PC Bar Tensioning, (\$2mm) for PC Box Girder (Transversal)	each	29, 12	16. 3%	71.4%	12.2%	59.9%	40. 1%	1, 800, 00	8, 564. 14	37, 437, 61	6, 414. 24	31, 378, 83	21, 037, 17	52, 416, 00	
	Miscellaneous	LS	_1.00			L				0.00	0, 00	0.00	0,00	0. 00	0.00	0.0%
	Total									18, 776, 32	228, 921, 06	14, 425. 82	170, 271, 19	91, 852, 01	262, 123, 20	
	Components (%)									7. 2%	87. 3%	5, 5%	65.0%	35.0%	100, 0%	
	Unit Rate	kg						- 1		18.77	228. 81	14. 42	170, 19	9L. 81	262, 00	

406 (3) d	Prestressing Bar \$32mm for PC Box Gird	ers of	Angat Bridge,	Vertica	al in We	abs		_					Unit:	1,000.00	kg	
		The state of the s					nit Rate					Апог	<u>mt</u>			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)	i	Total			Companent (PP)			Total	Romarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	Lahor	Material	Equipment	Foreign	l.oca]	(PP)	
¥0686	PC Bar Installation, (1-\$\phi 32mm) for PC Box Girder (Vertical in Web)	t	1,00	5. 7%	91.1%	3. 3%	64.8%	35. 2%	157, 000. 00	8, 924, 58	142, 971. 83	5, 103, 59	101,781,65	55, 218. 35	157, 000, 00	
₩0 6 87	PC Bar Anchorage, (1-φ32mm) For PC Box Girdor (Vertical in Web)	Cacii	61,38	2, 4%	92, 0%	5.5%	70.4%	29.6%	1,810.00	2, 714. 04	102, 254, 22	6, 129, 53	78, 223. 05	32, 874. 75	111,097.80	
W0688	PC Bar Tensioning, (1- \$32mm) for PC Box Girder (Vertical in Web)	each	61.38	16, 3%	71, 4%	12. 2%	59.9%	10. 1%	1, 800, 00	18, 051. 75	78, 912. 11	13, 520. 13	66, 141. 23	44, 342, 77	110, 484. 00	
	Miscellaneous	LS	1,00					1		0.00	0.00	0.00	0, 00	0.00	0.00	0.0%
	Total							Ī		29, 690, 38	324, 138, 17	24, 753, 26	246, 145. 93	132, 435, 87	378, 581. 80	
	Components (%)									7.8%	85.6%	6. 5%	65, 0%	35.0%	100.0%	
	Unit Rate	_kg								29, 72	324.50	24. 78	246. 42	132.58	379. 00	
	Total weight of PC tendons	=	5, 473. 8	kg			Tota	lnumber	s of Lendons =	336						

06(3)e	Prestressing Steel 12-712.7 for PC Holl	O# 218	p Bridge for E	urgol K	amp C, i		inat nii kato	-		 		Amou	Unit:	I, 800, 98 k	G	
Item No.	Description	Unit	Quantity		Col	nponent		1	Total			Component (PP)			Total	Remarks
		L		Lab.	Mat.	Equip.	For.	l,ocal	(PP)	Labor	Material	Equipment	Poreign	Local	(PP)	
W0671	PC Cable Installation, (12-712.7, 225t) for PC Box Girder (Longitudinal)	ı	1, 00	11.5%	84. 4%	4. 1%	60. 4%	39, 6%	153, 000. 00	17, 564, 93	129, 167, 28	6, 267. 80	92, 457. 23	60, 542, 77	153, 000, 00	
W0672	PC Cable Anchorage, (12-T12,7, 225t) for PC Box Girder (Longitudinal)	each	1, 42	0.9%	92.4%	6, 7%	71.0%	29, 0%	12, 900. 00	172, 14	16, 924. 66	1, 221. 20	12, 998, 79	5, 319, 21	18, 318, 00	
W0673	PC Cable Tensioning, (12-T12.7, 225t) [For PC Box Girder (Longitudinal)	each	1. 42	6, 3%	87.5%	6. 2%	6R. 3%	31, 7%	9, 560, 00	851, 87	11, 883, 41	836, 92	9, 276, 64	4, 298. 56	13, 575. 20	
	Miscellaneous	LS	1,00					<u>L</u>	<u></u> _	0, 00	0.00	0,00	0,00	0.00	0, 00	0.0%
	Total							L		18, 591, 94	157, 975, 34	8, 325, 92	114, 732. 67	70, 160, 53	184, 893, 20	
	Components (%)									10.1%	85. 4%	4. 5%	62, 1%	37.9%	100.0%	
	linit Rate	kg						1		18, 60	158. 07	8, 33	114, 80	70. 20	185, 00	
	Total weight of PC cables	3	14, 114. 8	kg			Tot	al numbe	rs of cables =	20						

	I					U	nit Rate					Amoun	L			
Item Na,	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
	\			Lab.	Mat.	Equip.	For,	Local	(PP)	rode.i	Material	Equipment	Foreign	Local	(55)	
1,002	Foreman	md	1.40	100.0%	0,0%	0, 0%	0.0%	100.0%	566, 00	792. 40	0, 00	0.00	0.00	792. 40	792, 40	
1.019	Skilled Labor	md	2. 20	100.0%	0.0%	0.0%	0.0%	100, 0%	403.00	986, 60	0.00	0.00	0.00	886, 60	886, 60	
L020	Unskilled Labor	md	4, 90	100,0%	0.0%	0.0%	0.0%	100,0%	314.00	1, 538. 60	0.00	0,00	0.00	1, 538, 60	1, 538. 60	
M09001	Laminated Elastomeric Bearing Pad (400x300x50mm)	each	10.00		100.0%		65. D%	35, 0%	11, 000. 00	0.00	110, 000. 00	0, 80	71, 500. 00	38, 500, 00	110, 000. 00	
M02011	Structural Steel (Round Bar, SS400)	kg	0.00	0.0%	100.0%	0.0%	70, 0%	30, 0%	21.80	0.00	0.00	0, 00	0.00	0, 00	0.00	
MO2015	Structural Steel (Plates, SS400)	Kg	0.00	0.0%	100, 0%	0,0%	70.0%	30.0%	20. 20	0.00	81, 00	0.00	0, 00	0.00	0, 00	
MO2001	Reinforcing Bars, Grade 40	kg	0, 00	0.0%	180,0%	0.0%	65.0%	35, 0%	16,00	0, 00	0.00	0.00	0.00	0.00	0.00	
MO9013	Elastomeric Pad (t=50mm)	m2	0,00	0.0%	100.0%	0,0%	65, 0%	35, 0%	25, 700, 00	0, 00	0,00	0.00	0.00	0,00	0.00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45.0%		0.00	905, 74	1, 358. 61	1, 245, 39	1, 018. 96	2, 264, 35	2.0%
	Total			L						3, 217, 60	110, 905, 74	1, 358, 61	72, 745, 39	42, 736, 56	115, 481. 95	
	Components (%)									_2, 8%	96.0%	1. 2%	63, 0%	37, 8%	100.0%	
	Unit Rate	each						T		320, 42	11, 044, 29	135, 29	7, 244, 18	4, 255, 82	11, 500, 00	

107 (t) h	Elastomeric Bearing Pad, Duro 60 (600	x300x50m	m)										Unit	10.00_ea	ach	
						Ü	nit Rate	0				Amou	nt			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Poreman	md	1.40	100, 0%	0.0%	0, 0%	0.0%	100.0%	566, 00	792, 40	0.00	0, 00	0.00	792, 40	792, 40	
L019	Skilled Labor	md	2. 20	100,0%	0.0%	0.0%	0.0%	100.0%	403, 00	886, 60	0, 00	0.00	U, QO	986. 60	886, 60	
L020	Unskilled Labor	md	4. 90	100.0%	0.0%	0.0%	0.0%	100.0%	314, 00	1,538.60	0.00	0, 00	0.00	1, 538, 60	1, 538, 60	
M09002	Laminated Elastomeric Bearing Pad (600x300x50mm)	each	10. 00	0.0%	100,0%	0.0%	65.0%	35. D%	15, 800, 00	0, 00	158, 000.00	0, 00	102, 700, 00	55, 300, on	158, 000, 00	
MO2011	Structural Steel (Round Bar, \$\$400)	kg	216.00	0.0%	100.0%	0.0%	70.0%	30, 0%	21, 80	0.00	4, 708, 80	0. 00	3, 296, 16	1, 412, 64	4, 708, 80	
M02015	Structural Steel (Plates, SS400)	kg	92. 30	0.0%	100, 0%	0.0%	70.0%	30.0%	20, 20	0,00	1, 864. 46	11, 00	1, 305, 12	559, 34	1, 364, 46	
MO2001	Reinforcing Bars, Grade 40	kg	16, 60	0.0%	100.0%	0.0%	66, 0%	35, 0%	16, 00	0, 00	265. 60	0, 00	172, 64	92.96	265, 60	
M09013	Elastomeric Pad (t=50mm)	m2	0, 79	0.0%	100.0%	11.0%	65, 0%	35.0%	25, 700, 00	0.00	20, 303, 00	0.00	13, 196, 95	7, 106, 05	20, 303, 00	
	Miscellaneous	LS	1.00	0.0%	40, 0%	60, 0%	55.0%	45.0%		0.00	1, 506, 88	2, 260, 31	2, 071. 95	1,695.24	3, 767. 19	2.0%
	Total			L.						3, 217, 60	186, 648, 74	2, 260, 31	122, 742, 83	69, 383, 82	192, 126, 65	
	Components (%)									1.7%	97.1%	1.2%	63.9%	36. 1%	100.0%	
	lisit Rate	each								321 55	18 652 57	925 88	12 266 10	6 033 81	19, 200, 00	

	407 (1) c	Elastomeric Bearing Pad, Duro 60 (600x	350x50mm)		 	Unit:	10.00 each
ſ				 Unit Rate	Атош	1L	
- 1	F 4 31	Is a second second	ا بنا	 0 (4)	 (01)		7.1.1

1						<u>U</u>	nii Kale)				Amot	int			
Ltem No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
	<u></u>	1 1		Lab.	Mat.	Eguip,	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md	L. 40	100.0%	0, 0%	0.0%	0.0%	100.0%	566. 00	792. 40	0, 00	0.00	0, 00	792.40	792.40	
F018	Skilled Labor	nd l	2, 20	100.0%	O. 0%	0.0%	0.0%	100.0%	403.00	886, 60	บ. ชอ	0.00	Ü. 00	886, 60	886.60	'n
1,020	Unskilled Labor	md	4, 90	100.0%	0,0%	0.0%	0, 0%	100.0%	314, 00	1,538.60	0, 80	0.00	0, 00	1, 538. 60	t, 538, 6 01	ſ
M09003	Laminated Elastomeric Bearing Pad (600x350x50mm)	cach	10, 00	0.0%	100.0%	0.0%	65, 0%	35.0%	18, 400. 00	0.00	£84, 000, 110	0. 00	119, 600, 00	64, 480, 00	184, 000, 00	
M02011	Structural Steel (Round Bar, SS400)	kg	212, 30	0.0%	100.0%	0.0%	70.0%	30.0%	21, 80	0, 00	4, 628. 14	Ω. 00	3, 239, 70	1, 388, 44	4, 628, 14	
№02015	Structural Steel (Plates, SS400)	kg	172. 90	0.0%	100, 0%	0.0%	70.0%	315.0%	20. 20	0, 80	3, 492, 58	a. co	2, 444, 81	1, 047, 77	3, 192. 58	
M02001	Reinforcing Bars, Grade 40	kg k	47.90	0.0%	100.0%	0.0%	65,6%		16, 00	0.00	766. 40	0.00	498.16	268. 24	766, 40	i i
M09013	Clastomeric Pad (t=50mm)	m2	0.56	0.0%	100.0%	0.0%	65.0%	35, 0%	25, 700, 00	0.00	14, 392. 00	0.00	9, 354. 80	5, 037, 20	14, 392. 00	
	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55,0%	45, 0%		0,00	1, 683, 97		2,315,46	I, 894. 47	4, 209, 93	2.0%
	Total									3, 217, 60	208, 963, 09	2, 525. 96	137, 452, 93	77, 253, 73	214, 706. 65	
	Components (%)	\perp								1.5%	97. 3%	1.2%	64.0%	36, 0%	100.0%	
	Unit Rate	each								322, 20	20, 924, 86	252, 94	13, 764, 07	7, 735. 93	21,500,00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(1)d	Elastomeric Bearing Pad, Duro 60 (600x	700x89a	um)										Unit:	10, 00 es	ich	
							sit Rate					Anou	nt			
Ltem No.	Description	linit	Quantity		Con	ponent (%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	[.oca]	(PP)	Labor	Material	liquipment	Foreign	Local	(PP)	
1.002	Forenan	md	1.40	100.0%	0.0%	0.0%	0.0%	100, 0%	566, 00	792. 40	0.00	0, 00	0.00	792, 40	792, 40	
L019	Skilled Labor	m ci	2, 20	100,0%	0.0%	0.0%	0.0%	100.0%	403, 00	886.60	0, 00]	0.00	0,00	886, 60	886.60	
1,020	Unskilled Labor	md	4, 90	100.0%	0,0%	0.0%	0.0%	100.0%	314.00	1, 538, 60	0.00	U. 00	0.00	1, 538, 60	1, 538, 60	
M09004	Laminated Elastomeric Bearing Pad (600x700x89mm)	each	10.40	0.0%	100, 0%	0.0%	65.0%	35, 0%	66, 600. 00	0.00	666, 000. 00	8. 00	432, 900. 00	233, 100, 00	666, 000, 00	
M02011	Structural Steel (Round Bar, SS400)	kg	2, 882, 30	0.0%	100.0%	0.0%	70.0%	30, 0%	21.80	0, 00	62, 834. 14	0.00	43, 983, 90	18, 850, 24	62, 834, 14	
M02015	Structural Steel (Plates, SS400)	kg	2, 330, 60	0.0%	100.0%	0.0%	70.0%	30, 0%	20, 20	0.00	47, 078, 12	0.00	32, 954, 68	14, 123, 44	47, 078, 12	
M02001	Reinforcing Bars, Grade 40	kg	177, 60	0.0%	100, 0%	0.0%	65. 0%	35.0%	16, 00	0.00	2,841.60	0.00	1, 847, 64	994. 56	2, 841, 60	
M09013	Elastomeric Pad (t=50mm)	m2 1	2.06	0,0%	100.0%	0.0%	65.0%	35, 0%	25, 700.00	0,00	52, 942, 00	0.00	34, 412, 30	18, 529, 70	52, 942, 00	
	Miscellaneous	I.S	1.00	0.0%	40.0%	60. 0%	_55.0%	45.0%		0.00	6, 679, 31	10, 018, 96	9, 184. 05	7, 514, 22	16, 698, 27	2.0%
	Total									3, 217, 60	838, 375, 17	10, 018, 96	555, 281. 97	296, 329, 76	851, 611, 73	
	Components (%)	1								0. 1%	98, 4%	t. 2%	65. 2%	34.8%	100.0%	
L	Unit Rate	cach								321, 91	93, 875, 74	1, 002, 35	55 <u>, 553,</u> 51	29, 646, 49	85, 200, 00	

Unit Rate cach
Miscellaneous covers the cost for welding equipment, walding rads, minor tools, etc.

407 (1) e	Elastomeric Bearing Pad, Duro 60 (600x	100x60 n	ım)										Unit:	10, 00	each	
							nit Rate					Λmou	nt			
Item No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks .
<u> </u>		 - 		Lab,		Equip.	Far.	Local	(PP)	l,abor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	rad l	1,40			0,0%	0.0%		\$66,00	792.40	0.80	0.00	0.00	792.40	792, 40	
L019	Skilled Labor	nd	2, 20	100.0%	0.0%	0.0%	0.0%	100.0%	403, 00	886, 60	0.00	0.00	0.00	886. 60	886, 60	
1.020	Unskilled Labor	tad	4. 90	100, 0%	0, 0%	0.0%	0.0%	100, 0%	314.00	1, 538, 60	0, 00	0.00	0, 00	1, 538, 60	1,538.60	
MO9005	Laminated Elastomeric Bearing Pad (600x400x50mm)	each	10.00	0,0%	100, 0%	0.0%	65. 0%	35. 0%	25, 300. 00	0.00	253, 000. 00	0.00	[64, 450, 00	88, 550, 00	253, 000. 00	
M02011	Structural Steel (Round Bar, SS400)	kg	994. 20	1, 0%	100.0%	0.0%	70.0%	30, 0%	21.80	0.00	21, 673, 56	0.00	15, 171, 49	6, 502, 07	21, 673, 56	
MO2015	Structural Steel (Plates, SS400)	kg	135, 60	B. 0%	100,0%	0.0%	70.0%	30.0%	20, 20	0,00	2, 739, 12	0.00	1, 917, 38	821, 74	2, 739, 12	
M02001	Reinforcing Bars, Grade 40	kg	22. 20	0.0%	100.0%	0.0%	65, 0%	35, 0%	16, 00	0.00	355, 20	0,00	230, 88	124, 32		
MO9013	Clastomeric Pad (t=50mm)	m2	0, 53	0,0%	100.0%	0.0%	65.0%	35.0%	25, 700, 00	0,00	13, 621, 00	0.00	8, 853, 65	4, 767, 35	13, 621, 00	
·	Miscellaneous	LS	1.00	0.0%	40.0%	60.0%	55.0%	45, 0%		0.00	2, 356, 85	3, 535, 28	3, 240. 67	2, 651, 46	5, 892, 13	2.0%
	Total	II								3, 217, 60	293, 745. 73	3, 535. 28	193, 864, 08	106, 634, 53		
	Components (%)									1.1%	97, 8%	1.2%	61.5%	35.5%		
	Unit Rate	each								321, 23	29, 325, 83	352. 94	19, 354, 24	10, 645, 76		

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407 (1) E	Elastomeric Bearing Pad, Duro 60 (450)	300x60v	un)										<u>Unit:</u>	10,00	each	
Γ		1				U	nit Rate	·				Amou	nt			
Jtem No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Companent (PP)			Total	Remarks
1	l			Lab.	Mat.	Equip.	For,	Local	(PP)	i.ahor	Material	Equipment	Foreign	Local	(126)	
1.002	Foreman	md	1.40	100,0%	0,0%	0.0%	0.0%	100.0%	566, 00	792.40	8.00	0.00	0.00	792.40	792, 40	
L019	Skilled Labor	md	2. 20	100.0%	0.0%	0.0%	0.0%	190, 0%	403.00	886, 60	0.00	0, 08	0.00	886, 60	886, 60	
L020	Unskilled Labor	md	4, 90	100.0%	0.0%	0,0%	0,0%	100, 0%	314.00	1, 538. 60	0, 00	0, 00	0.00	t, 538, 60	1, 538. 60	
MO9006	Laminated Elastomeric Bearing Pad (450x300x60mm)	cach	10, 00		100, 0%	0.0%	65, 0%	35. 0%.	14, 200, 00	0. 00	142, 000, 00	0. 00	92, 300, 00	49, 700, 00	142, 000, 00	
M02011	Structural Steel (Round Bar, SS400)	kg	1, 315, 30	0.0%	100,0%	0, 0%	70.0%	30.0%	21, 80	0.00	28, 673, 54	0.00	20, 071, 48	8, 602. 06	28, 673, 54	
M02015	Structural Steel (Plates, SS400)	kg	300.00	0,0%	100,0%	0.0%	70.0%	30.0%	20. 20	0.00	6, 060, 00	0.00	4, 242, 00	1, 818. 00	6, 060, 00	
M02001	Reinforcing Bars, Grade 40	kg .	336, 70	0.0%	100.0%	0.0%	65.0%	35, 0%	16.00	0.00	5, 387. 20	0, 00	3, 501. 68	1, 885, 52	5, 387, 20	
M09013	Elastomeric Pad (t=50mm)	m2	0, 83	0.0%	100.0%	0.0%	65.0%	35.0%	25, 700, 00	0.00	21, 331, 60	0.00	13, 865, 15	7, 165, 85	21,331.00	
l	Miscellaneous	LS	1.00	0.0%	40, 0%	60.0%)	55.0%	45.0%		<u>a. 00</u>	1, 653, 35	2, 480. 03	2, 273, 36	1, 860. 02	4, 133, 39	
	Total			L						3, 217, 60	205, 105, 09	2, 480, 03	136, 253. 67	74, 549, 06	210, 802, 73	
	Components (%)	1								1.5%	97. 3%	1.2%	64, 6%	35, 4%	100, 0%	
	Unit Rate	each						\Box		322, 06	20, 529. 70	248, 24	13, 638. 12	7, 461, 88	21, 100, 00	

Components (%)

Unit Rate

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(1)g	Elastomoric Boaring Pad, Duro 60 (550x)	300x60 a	m)				_						Unit:	10.00 e	each	
		1				UU	nit Rate	<u> </u>				Amout				
Item No.	Description	Unit	Quantity		Co	mponent	(%)		Total			Component (PP)			Total	Remarks
L.	<u> </u>	<u> </u>		l.ab,	Mat,	Equip.	For.	Local	(PP)	Labor	Material	Equipment	foreign	Local	(PP)	
1.002	Poreman	md	1, 40	100.0%	0.0%	0.0%	0.0%	100.0%	566, 00	792. 40	0, 00	0.00	0,00	792. 40	792, 40	
1.019	Skilled Labor	nd	2. 20	100,0%	0.0%	0.0%	0.0%	100, 0%	403, 00	886, 60	0.00	0,00	0.00	886, 60	886.60	
L020	Unskilled Labor	nad	4, 90	100,0%	0.0%	0.0%	0.0%	100.0%	314, 00	1, 538, 60	0,00	0.00	0.00	1, 538. 60	1,538,60	
M09007	Laminated Elastomeric Bearing Pad (550x300x50mm)	each	10.00	0.0%	100,0%	0.0%	65.0%	35. 0%	14, 500, 00	0.00	145, 000, 00	0. 00	94, 250. 00	50, 750, 00	145, 000, 00	
M02011	Structural Steel (Round Bar, SS400)	kg	0.00	0.0%	100.0%	0.0%	70.0%	30, 0%	21.80	0, 00	0.00	0, 00	0.00	0, 00	0, 00	
MO2015	Structural Steel (Plates, SS400)	kg	0.00	0,0%	100.0%	0.0%	70.0%	30, 0%	20, 20	0.00	0.00	0.00	0, 00	0.00	0, 00	
M02001	Reinforcing Bars, Grade 40	kg	0.00	0.0%	100.0%	0.0%	65.0%	35.0%	16, 00	0. 00	0.00	0.00	0.00	0.00	0.00	1
{ M09013	Elastomeric Pad (t=50mm)	m2	0.00	0.0%	100.0%	0.0%	65.0%	35, 0%	25, 700, 00	0, 00	0.00	0.00	0, 00	0.00	0.00	
<u> </u>	Miscellaneous	LS	1,00	0, 0%	40.0%	60.0%	55.0%	45, 0%		0.00	1, 185, 74	1, 778. 61	1, 630, 39	1, 333. 96	2, 964. 35	2.0%
	Total									3, 217. 60		1,778.61	95, 880, 39	55, 301, 56	151, 181, 95	
	Components (%)									2. 1%	96.7%	1.2%	63. 4%	36.6%	100.0%	
	Unit Wate	each						I		321, 37	14,600.98	177. 65	9,576.50	5, 523, 50	15, 100, 00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407(1)h	Elastomeric Bearing Pad, Dure 60 (500	x400x60m	<u>m)</u>										lhit:		ach	
	, , , , , , , , , , , , , , , , , , , ,					Üı	nit Rate					Amour	ıt.			
Item No.	Description	Unit	Quantity		Cor	nponent ((%)		Total			Component (PP)			Total	Remarks
		i		J.ab.	Mat.	Equip.		l.ocal	(PP)	Labor	Moterial	Equipment	Foreign	Local	(PP <u>)</u>	
1,002	Foreman	md	1. 10	100.0%	0.0%	0, 0%	0.0%	100, 0%	566, 00	792, 40	0.00	0,00	0.00	792, 40	792, 40	
] L019	Skilled Labor	and \	2, 20	100,0%	0.0%	0.0%	0,0%	100.0%	403.00	886, 60	0.00	0.00	0.00	886.60	886, 60	Į.
1.020	Unskilled Labor	md	4, 90	100.0%	0.0%	0.11%	0.0%	100.0%	314.00	1, 538. 60	0, 00	0, 00	0.00)	1, 538, 60	1, 538. 60	
M09008	Laminated Elastomeric Bearing Pad (500x480x60mm)	each	10, 00	0, 0%	100, 0%	0.0%	65. 0%	35.0%	21, 100, 00	0, 00	211, 000. 00	0.00	137, 150. 00	73, 850, 00	211,000.00	
M02011	Structural Steel (Hound Bar, SS400)	kg	1, 315, 30	0, 0%	180, 0%	0.0%	70.0%	30,0%	21.80	0, 00	28, 673, 54	0.00	20, 071, 48	8, 602. 06	28, 673, 54	
M02015	Structural Steel (Plates, SS400)	kg	300, 00	0.0%	100.0%	0.0%	70.0%	30.0%	20, 20	0.00	6, 060, 00	0.00	4, 242, 00	1, 818, 00	6, 060. 00	
M02001	Reinforcing Bars, Grade 40	kg	336, 70	0.0%	100, 0%	0.0%	65.0%	35. 0%	16.00	0.00	5, 387, 20	0, 00	3, 501, 68	1, 885, 52	6, 387, 20	
M09013	Elastomeric Pad (t=50mm)	m2	0, 83	0.0%	100, 0%	0.0%	65, 0%	35.0%	25, 700. 00	0.00	21, 331, 00	0, 00	13, 865, 15	7, 465, 85	21, 331, 00	İ
L	Miscellaneous	is	1.00	0.0%	40,0%	60,0%	55.0%	45.0%		_ 0. 0ა	2, 205. 35	3, 308, 03	3, 032, 36	2, 181.02	5, 513, 39	2, 0%
	Total									3, 217, 60	274, 657, 09	3, 308, 03	181, 862, 67	99, 320, 06	281, 182, 73	
	Components (%)									1.1%	97, 7%	1.2%	64. 7%	35, 3%	100.0%	
L	Unit Rate	each								321, 55	27, 447. 86	330, 59	18, 174, 45	9, 925. 55	28, 100, 00	

Miscellaneous covers the cost for welding equipment, welding rods, minor tools, etc.

407 (2) a	Expansion Joint, Multiflex MBO (Elasto	meric)					_						<u>Unit:</u>	100, 00	h	
						Ū	nit Rate	2				Amout	rt			
Item No.	Description	Unit	Quantity		Cor	mpanent l	(%)		Total			Component (PP)			Tot#1	Remarks
	L			Lah.	Mat.	Equip.	For.	Local	(PP)	Lahor	Material	Equipment	Foreign	Local	(PP)	
1,002	Forenan	md	1,50	100.0%	() 0%	0.0%	0.0%	100.0%	566, 00	849. 00	0.00	O, 190	0, 00	849.00	849, 00	
1.019	Skilled Lahor	md	6.00	100.0%	0.0%	0.0%	0.0%	100,0%	403.00	2, 418, 00	0,00	Q. (10)	0, (10	2, 418, 00	2, 418, 00	
1.020	Unskilled Labor	md	3, 00	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0, (10	0, 00	942.00	942, 00	
M09200	Expansion Joint, Multiflex 80	\ m \	100.00	0.0%	100.0%	0.0%	65.0%	35.0%	64,600.00	0.00{	6,460,000,00	0.00	4, 199, 000, 00	2, 261, 000, 00	6,460,000.00	
W0225	Grout (non-shrink)	m3	0. 36	1.0%	96.5%	2.6%	61.3%	38.7%	2, 050, 00	10, 51	1,059.10	28, 40	672. 74	425. 26	1, 098, 00	
M07021	Asphalt Mixture	, L	2, 54	0.0%	100.0%	0.0%	65, 0%	35, 0%	2, 500, 00	0. 00	6, 350, 00	0.08	4, 127, 50	2, 222, 50	6, 350, 00	
	Miscellaneous	LS	1.00	10.0%	30. UX	681, 0%	55.0%	45, 0%		12, 943, 31	38, 829, 94	77, 659, 88	71, 188. 23	58 <u>,</u> 244, 91	12 <u>9,</u> 433, 14	2, 0%
	Tota!									17, 162, 82	6, 506, 239, 04	77, 688, 28	4, 274, 988. 47	2, 326, 101. 67	6, 601, 090, 14	
	Components (%)									0.3%	98, 6%	1.2%	64.8%	35. 2%	100. 0%	
	Unit Rate	l m								171, 60	65, 051, 65	776. 75	42, 742. 82	23, 257, 18	6 <u>6.</u> 000.00	

Unit Rate m Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

40 <u>7 (2)</u> b	Expansion Joint, Multiflex M100 (Elast	omeric)	<u> </u>										Unit:	100, 00 m	<u> </u>	
						Į.	nil Rat	e				Amou	nt			
Item No.	Description	Unit	Quantity		Co	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat	Equip.	For.	Local	(PP)	Labor	Materi <u>al</u>	Equipment	Foreign	Local	(PP <u>)</u>	
1.002	Foreman	md	1.50	100.0%	0.0%	0, 8%	0.0%	100,0%	566. 00	849, 00	0, 00	0.00	B, 00	849.00	849, 00	
L019	Skilled Labor	(md	6, 00	100.0%	0,0%	0.0%	0.0%	100.0%	403, 00	2, 418. 00	0.00	9, 00	0. 00	2, 418, 00	2, 418, 00	
1.020	Unskilled Labor	and	3, 00	100.0%	0.0%	0.0%	0.0%	100, 0%	314,00	912.00	0, 00	0, 00	θ, 00	942, 00	942.00	
MO9201	Expansion Joint, Multiflex 100	l m	100.00	0.0%	100.0%	0.0%	65,0%	35.0%	74, 400, 00)	0. 00)	7, 440, 000, 00	8,00	4, 836, 000, 00	2, 604, 000, 00	7, 440, 000, 00	ĭ
₩0225	Grout (non-shrink)	л3	0.39	1, 0%	96.5%	2.6%	61,3%	38.7%	3, 050. 00	11.38	1, 147, 36	30, 76	728. 80	460, 70	1, 189, 50	ľ
M07921	Asphalt Mixture	l t	2.96	0.0%	100.0%	0, 0%	65.0%	35.0%	2, 500. 00	O, UO	7, 400, 00	0,00	4, 810, 00	2, 590. 00	7, 400, 00	
	Miscellaneous	LS	1,00	10.0%	30.0%	60,0%	55.0%	45.0%		14, 905, 60	44, <u>7</u> 16, 79	89, 433, 58	81,980.78	67, 075, 19	149, 055, 97	2.0%
	Tota!									19, 125. 98	7, 493, 264. 15	89, 464. 31	4, 923, 519, 59	2, 678, 334. 88	7, 60L. 854, 47	
	Components (%)				l					0.3%	_98. 6%	1.2%	64.8%	35, 2%	100.0%	
	Unit Rate	RI		L	[191.21	74, 914, 36	894. 43	49, 223, 18	26, 776, 82	76, 000, 00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407(2)c	Expansion Joint, Multiflex M140 (Elast	omeric)	·										Unit:	100. 00 m	4	
		1				U	nit Rate	e				Amou	nt			
Ltem No.	Description	Unit	Quantity	L		ponent ((%)		Total _	·		Component (PP)			Total	Remarks
<u> </u>				Lab.		Equip.	For,	i.ocal	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
L092	Foreman	md		100.0%		0.0%	0.0%	100.0%	566. 00	849.00	0.00	0, 00	0.00	849, 00	849.00	
L013	Skilled Labor	md	6, 00	100.0%	0,0%	0.0%	0.0%	100.0%	483, 00	2, 418. 00	0. 00	0.00	0, 00	2, 418, 00	2, 418, 00	
L020	Unskilled Labor	nd	3,00	100.0%	0.0%	0.0%	0.0%	[100, 0 % [314.00	942.00	0.00	0, 00	0,00	942,00	942,00	ļ
MO9202	Expansion Joint, Multiflex 140	m	100.00	0,0%	100.0%	0.0%	65.0%	35.0%	93, 800. 00	0.00	9, 380, 000, 00]	0, 00	6, 097, 000, 00	3, 283, 000, 00	9, 380, 000, 00	}
WO225	Grout (non-shrink)	m3	0,82	1.0%	96, 5%	2.6%	61.3%	39, 7%	3, 050. 00	23, 93	2, 412. 39	64, 68	1, 532, 36	968. 64	2, 501, 00	}
M07021	Asphalt Mixture	ι	4. 28	0.0%	100,0%	0, 0%	65, 0%	35.0%	2, 500, 00	0.00	10, 700, 00	0, 60	6, 955, 00	3, 745, 00	10, 700, 00	Ì
	Miscellaneous	1.5	1,00	10.0%	30.0%	60.0%	55.0%	45, 0%		18, 794, 82	56, 384, 46	112, 768, 92	103, 371, 51	84 <u>, 576</u> , 69	187, 948, 20	2.0%
L	Total									23, 027. 75	9, 449, 496, 85	112, 833, 60	6, 208, 858, 87	3, 376, 499, 33	9, 585, 358, 20	
<u></u>	Components (%)							L I		0.2%	98. 6%	1.2%	64. 8%	35, 2%	100, 0%	
L	Unit Rate	ш								230. 39	94, 540, 73	1, 128, 88	62, L18. 66	33, 781, 34	9 <u>5,</u> 900, 00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407 (2) d	Expansion Joint, Multiflex NIGO (Elas	tomeric)	·										<u>Unit</u> :	100,00 m	·	
						IJ	nit Rate	9				Amou	n L			
ltem Na,	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Forcigo	Local	(PP)	
L002	Foreman	md:	1, 50	100.0%	0.0%	0.0%	0.0%	100.0%	566, 00	849, 00	0.00[0, 00	0.00	849, 00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0,0%	0.0%	100.0%	403, 00	2, 418. 00	0,00	0.00	0, 00	2, 418, 00	2, 418, 00	
1.020	Unskilled Labor	mat	3, 89	100.0%	0.0%	0.0%	0.0%	100,0%	314.00	942.00	0.00	0, 00	0, 00	942, 00	942.00	ì
M09203	Expansion Joint, Multiflex 160	m	100.00	0,0%	100.0%	0,0%	65.0%	35.0%	107, 006, 00	0, 00	10, 700, 000, 00	0.00	6, 955, 000, 00[3, 745, 000, 00	10, 700, 000, 00	ì
WO225	Grout (non-shrink)	m3	0, 54	1.0%	96.5%	2.6%	61.3%	38. 7%	3, 056, 00	15. 76	1,588,65	42. 59	1, 009, 11	637. 89	1,647,00	
M07021	Asphalt Mixture	l t	3, 85	0.0%	100.0%	0.0%	65, 0%	35.0%	2, 500, 00	0, 00	9, 625. 00	0.00	6, 256, 25	3, 368, 75	9, 625, 00	
	Miscellaneous	LS	1.00	10, 0%	30.0%	60.0%	55.0%	45.0%		21, 430, 96	64, 292, 89	128, 585, 77	117, 870, 29	96, 439, 33	214, 309, 62	2.0%
Ĺ	Total									25, 655. 72	10, 775, 506, 53	128, 628. 37	7, 080, 135, 65	3, 849, 654, 97	10, 929, 790, 62	
	Components (%)									0.2%	98. 6%	1.2%	61.8%	35, 2%	100.0%	
	Unit Rate	m								255, 86	107, 461, 36	1, 282. 78	70, 608. 38	38, 391, 62	109,000,00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407 (2) e	Expansion Joint, Multiflex M200 (E)	<u>astomeric)</u>											Unit:	100.00	<u> </u>	
						Ú	nil Rate					Amou	nt			
Item No.	Description	Unit	Quantity		Cor	nponent :	(%)		Total			Component (PP)			Total	Romarks
				Lab.		Equip,	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
1.002	Foreman	md	1,50	100, 0%	0.0%	0.0%	0.0%	100.0%	566, 00	849,00	0.00	0, 00	0, 00	849.00	849.00	
L019	Skilled Labor	md	6.00	100.0%	0.0%	0,0%	0, 0%	100,0%	403.00	2, 418, 00	0, 00	0.00	0.00	2, 418, 00	2, 418, 00	ļ
1.020	Unskilled Labor	md	3, 60	100.0%	0.0%	0.0%	0.0%	100.0%	314.00	942.00	0.00	0, 00	0, 00]	942.00	942, 00	ļ
M09204	Expansion Joint, Multiflex 200	m	100,00	0.0%	100.0%	0.0%	65, UX	35, 0%	122, 000, 00]	0.00	12, 200, 000, 00	0, 00	7, 930, 000, 00	4, 270, 800, 00	12, 200, 000, 00	ļ
₩0225	Grout (non-shrink)	m3	1.60	1.0%	96, 5%	2.6%	61.3%	38.7%	3, 050. 00	46. 70	4, 707, 10	126. 20	2, 989, 97	1,890,03	4, 880. 00	
M07021	Asphalt Mixture	ι	4, 18	0, 0%	100.0%	0.0%	65.0%	35.0%	2, 500, 00	0.00	10, 450, 00	0, 00	6, 792, 50	3, 657. 50	10, 450, 00	ļ
	Miscellangous	I.S	1, 00	10.0%	30.0%	60.0%	55.0%	45, 0%		24, 439. 08	73, 317, 23		134, 414, 93	109, 975. 85	244, 390, 78	2.0%
L	Total									28, 694. 78	(2, 288, 474, 33	146, 760, 67	8, 074, 197. 39	4, 389, 732. 39	12, 463, 929, 78	
	Components (%)									0, 2%	98.6%	1. 2%	64. 8%	35, 2%	100.0%	
L	Unit Rate								l	287. 78	123, 240, 37	1, 471, 85	80, 975, 64	14, 024, 36	125, 000, 00	

Unit Rate m
Wiscellaneous covers the cost for chinning, surface preparation, minor tools, etc.

407 (2) f	Expansion Joint, Multiflex M330 (Eles	omoríc)	ļ										<u>Unil:</u>		1	
						U	nit Rat	e				Amou	unt			
l Lem No.	Description	Unit	Quantity			mponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(44)	
1.002	Foreman	md	l. 50	100.0%	0.0%	0,0%	0, 0%	100,0%	566.00	849.00	0, 00	0,00	0.00	849, 00	849.00	
L019	Skilled Labor	ınd	6. 00	100,0%	0,0%	0,0%	0.0%	100.0%	403.00	2, 418, 00	0.00	0.00	0,00	2, 418, 00	2, 418.00	ļ
1.020	Unskilled Labor	md	3, 00	100, 0%	0.0%	0.0%	0.0%	100.0%	314,00	942.00	0. 00	0, 00	0.00	942,00	942,00	į.
M09206	Expansion Joint, Multiflex 330	m	100.00	0.0%	100,0%	0,0%	fi5, 0%	35.0%	250, 000. 00	0, 00	25, 000, 000, 00	0.00	16, 250, 000, 00	8, 750, 000, 00	25, 000, 000, 00	1
W0225	Graut (non-shrink)	m3	2. 21	1.0%	96.5%	2.6%	61.3%	38.7%	3, 050, 00	64. 50	6, 501, 68	174. 32	4, 129, 89	2, 610, 61	6, 740, 50	
MO7021	Asphalt Mixture	l t	5.64	0.0%	100.0%	0, 0%	65.0%	35.0%	2, 500. 00	0,00	14, 100, 00	0.00	9, 165, 00	4, 935, 00	14, 100.00	1
L	Miscellaneous	LS	1,00	10.0%	30,0%	60.0%	55.0%	45.0%		50, 050. 10	150, 150, 30	300, 300, 59	275, 275, 54	225, 225, 45	500, 500, 99	2.0%
	Total									54, <u>3</u> 23, 60	25, 170, 751, 98	300, 474, 91	16, 538, 570, 43	8, 986, 980. 06	25, 525, 550, 49	
	Components (%)						•			0. 2%	98.6%	1.2%	64.8%	35, 2%	_100, 0%	
	Unit Rate	l m						L I		542, 69	251, 4 <u>55</u> , 57	3, 001. 74	165, 220, 16	89, 779, 84	255, 000, 00	

Miscellaneous covers the cost for chipping, surface preparation, minor tools, etc.

407 (2) g	Expansion Joint, 30mmfor bridge side	wa]k											_Unit:	100, 00 m	n	
		_				Į	nit Rat	e				Amou	n t			
Item No.	Description	Unit	Quantity		Cor	ponent	(%)		Total			Component (PP)			Total	Remarks
				Lah,	¥at.	Equip.	for.	Local	(PP)	Labor	Material	Equipment	Foreign	<u>l.nc</u> a i	(PP)	
L002	Poremata	md	0.80	100, 0%	0.0%	0.0%	0.0%	100.0%	566, 00	452. 80	0, 00	0.00	0.00	452, 80	452.80	
1.019	Skilled Labor	md j	1.60	100.0%	0.0%	0, 0%	0, 0%	100.0%	403.00	644. 80	0.00	0,00	0.00	644.80	644, 80	
L020	Unskilled Labor	πd	1,60	100.0%	0,0%	0.0%	0.0%	100.0%	314, 00	502.40	0, 00	0, 00	0.00	502, 40	502.40	
M07104	Joint Filler (bituminous t=20mm)	m2	7, 50	0.0%	100.0%	0.0%	60.0%	40.0%	571.00	0, 00	4, 282, 50	0.00	2, 569, 50	1, 713, 00	4, 282, 50	
MO7117	Joint Scalant (liquid type)	kg	91, 80	B, 0%	100,0%	0.0%	60.0%	40.0%	96, 20	0,00	8, 831, 16	0, 90	5, 298, 70	3, 532, 46	8, 831, 16	
	Miscellaneous	LS	1.00	0, 0%	30.0%	70.0%	55, 0%	45.0%		0.00	44. 14	103.00	80. 93	66, 21	147. 14	1.0%
	Total									1, 600. 00	13, 157. 80		7, 949, 12	6, 911. 68	14, 860, 80	
	Components (%)									10.8%	88, 5%	0, 7%	53. 5%	46, 5%	100, 0%	
	Unit Rate	ın I						1		16 04	131 93	1 03	79.70	69 30	149 00	-

Miscellaneous covers the cost for minor materials, minor tools, etc.

SPL 407 (3) a	Restraining Bar ϕ 32 x 1495mm												Unit:	10.00 c	ach	
						U	nit Rate	•				Amoun	L			
Item No.	Description	Unit	Quantity		Con	ponent	(%)		Total			Component (PP)			Total	Remarks
		i		Lab.	Жat	Equip,	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
£002	Foreman	md	0, 60	100,0%	0.0%	0.0%	0, 0%	100.0%	566, 00	339, 60	0.00	0.00	0, 00	339, 60	339, 60	
Ն009	Welder	md	3.00	100.0%	0.0%	0, 0%	0,0%	100.0%	500.00	1, 500, 00	0.00	0.00	0.00	1, 500, 00	1, 500, 00	
1.019	Skilled Labor	md	3.60	100,0%	0.0%	0.0%	0.0%	100, 0%	403, 00	1, 450, 80	0. 00	0.00	0.00	1, 450, 80	l, 450, 80	
L020	linskilled Labor	md	2, 20	100.0%	0.0%	0, 0%	0, 0%	100, 0%	314.00	690, 86	0.00	0.00	0, 00	690, 80	690, 80	
M09313	PC Tendon,	kg	94.40	0.0%	100, 0%	0.0%	70.0%	30.0%	[36, 00]	0, 00	12, 838, 40	0, 00	8, 986, 98	3, 851, 52	12, 838, 40	
M08302	PVC Pipe, \$50	m	7, 50	0.0%	100,0%	0.0%	50.0%	50, 0%	66. 70	0.00	500, 25	0.00	250, 13	250, 13	500, 25	
MO9012	Elastomeric Pad (t=40mm)	m2	1.41	0.0%	100, 0%	0.0%	65, 0%	35, 0%	20, 500, 00	0. 00	28, 905, 00	0.30	18, 788, 25	10, 116, 75	28, 905, 00	
MO2015	Structural Steel (Plates, SS400)	kg	491, 40	0.0%	100.0%	0, 0%	70.0%	30, 0%	20, 20	0.08	9, 926, 28	0.00	6, 948, 40	2, 977, 88	9, 926, 28	
M02001	Reinforcing Bars, Grade 40	kg	63, 70	0.0%	100.0%	0.0%	65, 0%	35.0%	16.00	0, 08	1,019.20	0, 00	662, 48	356, 72	1, 019, 20	
	Miscellaneous	LS	1.00	0.0%	30.0%	70,0%	55.0%	45.0%		0.00	1, 372, 09	3, 201, 54	2, 515, 49	2, 058, 13	4, 573, 63	8, 0%
	Total									3, 981. 20	54, 561, 22	3, 201, 54	38, 151, 63	23, 592, 33	61, 743, 96	
	Components (%)									6.4%	RR. 4%	5, 2%	61.8%	38, 2%	100.0%	
	Unit Rate	each								397. 84	5, 452, 24	319. 93	3, 812, 45	2, 357, 55	6, 170, 00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

SPL 407 (3) b	Restraining Bar ø32 x 1900mm												Unit:	10, 00	each	
	T					U	nit Rate					Δmo	un L			
Item No.	Description	Unit	Quantity		Соп	pone <u>nt</u>	(%)		Tatal			Component (PP)			Total	Remarks
L				Lab,	Mat.	Equip.	For.	Local	(PP) [Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Poreman	md	0, 60	100.0%	0.0%	0, 0%	0,0%	100, 0%	566.00	339, 60	0, 00	0.00	0.00	339, 60	339, 60	
L009	Welder	md	3.00	100.0%	0.0%	41. 0%	0.0%	(00.0%)	500.00	1, 500, 00]	0.00		0, 00	1, 500, 00		
L019	Skilled Labor	md	3.60	100,0%	0.0%	0.0%	0.0%	100.0%	403, 00	1, 450. 80	0, 00	0.00	0.00	1, 450, 80	1, 450. 80	
1.020	Unskilled Labor	md	2. 20	100,0%	0.0%	0.0%	0.0%	100.0%	314.00	690. 80	0, 00	0.00	0, 00	690, 80		
M09313	PC Tendon, 6 32	kg	118.70	0.0%	100.0%	0.0%	70, 0%	30.0%	136.00	0.00	16, 143, 20	U. 00	11, 300, 24	4, 842, 9ti	16, 143, 20	
M08302	PVC Pipe, \$50	m	8.00	0.0%	100.0%	0.0%	50.0%	50.0%	66. 70	0.00	533, 60	0.00	266, 80	266.80	533, 60	
M09012	Elastomeric Pad (t=40mm)	m2	1, 41	0.0%	100.0%	0.0%	65.0%	35, 0%	20, 500, 00	0.00	28, 905, 00	0.00	18, 788, 25	10, 116, 75	28, 905, 00	-
M02015	Structural Steel (Plates, SS400)	kg	515, 10	0,0%	100.0%	0.0%	70.0%	30.0%	20, 20	0.00	10, 405, 82	v. oo	7, 283, 51	3, 121, 51	10, 405, 02	
M02001	Reinforcing Bars, Grade 40	kg	64, 40	0.0%	100.0%	0.0%	65,0%	35.0%	16, 00	0.80	1, 030, 40	0,00	669, 76	360, 64	1, 030, 40	
1	Miscellaneous	LS	1,00	0.0%	30.0%	70.0%	55. D%	45.0%		0,00	1, 463, 96	3, 415. 91	2, 683. 93	2, 195. 94	4, 879. 8 <u>7</u>	8.0%
	Total									3, 981. 20	58, 481. 18	3, 415. 91	40 <u>, 99</u> 2, 49	24, 885. 80	65, 878, 29	
	Components (%)									6.0%	88. 8%	5, 2%	62. 2%	37.8%	100, 0%	

Unit Rate Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

SPL 407 (3) c	Restraining Cable \$65 x 4121mm (PC	7-T15. 2)											Մnit:	10,00 ca	ach -	
		_				IJ	nit Rate	9				<u>A</u> mou	nt			
Lten No.	Description	Unit	Quantity		Con	ponent ((%)		Total			Component (PP)	<u> </u>		Total	Remarks
				Lah,	Mat.	Equip.		(aca)	(PP)	l,abor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	mrt	1,30	100.0%	0.0%	0, 0%	0.(1%	100.0%	566, 00	735, 80	0, 00	0.00	0, 00	735, 80	735, 80	
1.009	Welder	nd l	3, 90	100, 0%	0.0%	0.0%	0.0%	100.0%	500, 00	1,950.00	0, 00	0.00	0, 00	1, 950. 00	1, 950, 00	
L019	Skilled Lahor	md i	7.60	100,0%	0.0%	0.0%	0, 0%	100, 0%	403. 00	3, 062, 80	0,00	0.00	0.00	3, 062, 80	3, 062, 80	
L020	Unskilled Labor	md	4. 60	100.0%	U. O%	0, 0%	0,0%	100.0%	314, 00	1, 444. 40	41, 00	0.00	0, 00	1, 444, 40	t, 444, 40	
M09307	PC Strand, T15.2	kg	317, 60	0.0%	100,0%	0.0%	70.0%	30, 0%	119.00	0, 00	37, 794, 40	0.00	26, 456, 08	11, 338, 32	37, 794, 40	
M09332	PC Sheath, ø 65	m	37, 81	0.0%	100.0%	n. 0%	65.0%	35.0%	123.00	0.00	.4, 650. 63	0.00	3, 022. 91	1, 627, 72	4, 650, 63	
MO9013	Elastomeric Pad (L=50mm)	m2	2.04	0.0%	100.0%	n. 0%/	65.0%	35.0%	25, 700, 00	0.00	52, 428, 00	0.00	34, 078, 20	18, 349, 80	52, 428, 00	
MO2015	Structural Steel (Plates, SS400)] kg]	783. 60	0,0%	100,0%	0.0%	70.0%	30, 0%	20. 20	9, 00	15, 828, 72	0.00	[1,080.10]	4, 748, 62	15, 828, 72	
M02511	Stainless Plate	kg	908, 10	0.0%	100.0%	0.0%	70,0%	30.0%	135, 00	0, 00	122, 593, 50	0.00	85, 815, 45	36, 778. 05	122, 593, 50	
L	Miscellaneous	LS	I.00	0.0%	60.0%	40.0%	55.0%	45, 0%		0.00	11, 543, 44	7, 695, 62	10, 581, 48	8, 657, 58	19, 239, 06	8.0%
	Total									7, 193, 00	244, 838, 69	7, 695, 62	171, 034, 23	88, 693, 08	259, 727, 31,	
	Components (%)									2.8%	94. 3%	3.0%	65, 9%	34. 1%	100, 0%	
	Unit Rate	each								720, 06	24, 509, 57	770, 37	17, 121. 38	8, 878. 62	26, 000. 00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

SPL 407 (3) d	Restraining Cable \$65 x 4224mm (PC 7-	T15, 2)											Unit:		ach	
						U	<u>iit Rate</u>					Атоп	nt			
Ltem No.	Description	Unit	Quantity		Com	ponent (%)]	Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For.	Local	(PP)	l,ahor	Material	Equipment	Porcign	Local	(PP)	
1.002	Foreman	md	1.30	100.0%	0.0%	0.0%	0.0%	100.0%	566.00	735.80	0,00	8,00	0.00	735, 80	735.80	
1.009	Welder	md	3. 90	100,0%	0.0%	0.0%	0,0%	100, 0%	500.00	1, 950, 60	0.08	(1, 00	0, 00	1, 950, 00	1, 950, 00	
L019	Skilled Labor	md	7. 60	100.0%	0.0%	0.0%	0.0%	100.0%	403.00	3, 062. 80	0.00	Ø. 00	0.00	3, 062, 80	3, 062, 80	
L020	Unskilled Labor	nd	4, 60	100,0%	0.0%	0.0%	0,0%	100.0%	314.00	1, 444, 40	0.00	0.00	0, 00	1, 444. 40	1, 444, 40	
M09307	PC Strand, T15, 2	kg	325, 50	0.0%	100.0%	0.0%	70.0%	30.0%	119, 00	0.00	38, 734, 50	g. 00]	27, 114, 15	11, 620, 35	38, 734, 50	
M09332	PC Sheath, \$65	m	38. 84	0,0%	100.0%	0.0%	65.0%	35. 0%	123. 00	0.00	4, 777. 32	0,00	3, 105. 26	1, 672, 06	4, 777, 32	
M08013	Elastomeric Pad (t=50mm)	m2	2,04		100.0%	0.0%	65.0%	35.0%	25, 700, 00	0.00	52, 428, 00	0.00	34, 078, 20	18, 349, 80	52, 428, 00	
M02015	Structural Steel (Plates, SS400)	kg	960.00	0.0%	100.0%	0.0%	70,0%	30,0%	20, 20	0. 00	19, 392, 00		13, 574. 40	5, 817, 60	19, 392, 00	
M02511	Stainless Plate	kg	613, 50	0,0%	100.0%	0.0%	70, 0%	30,0%	135, 00	0,00	82, 822, 50	- 0.00	57, 975, 75	24, 846, 75	82, 822, 50	
<u> </u>	Miscellancous	LS	1.00	⊕. O%	60.0%	40.0%	55.0%	45.0%		0.00	9, 856, 67	6, 571 <u>. 11</u>	9, 035, 28	7, 392, 50	16, 427, 79	8. 0%
	Total									7, 193, 00	208, 010, 99	6, 571. 11	144, 883, 04	76, 892. 07	221, 775, [1	
L	Components (%)									3. 2%	93, 8%	3.0%	65. 3%	34, 7%	100.0%	
	Unit Rate	each								720, 03	20, 822, 19	657, 78	14, 503. 00	7, 697. 00	22, 200, 00	

Miscellaneous covers the cost for steel cutter, welding equipment, welding rods, tensioning jack, minor tools, etc.

100, 0% 6, 590, 00

4, 100. 60

2, 489, 40

3, 415, 91 5, 2% 341, 70

88. 8% 5, 860. 05

6.0% 398.25

407 (4)	G. I. Drain Pipe o 150mm for Bridge Dra	inage											Unit:	{(I, ()() m		
						U	nit Kat	e				Атаці	nt			_
Item No.	Description	Unit	Quantity		Сол	ponent ((%)		Total			Component (PP)			Total	Remarks
i				Lab.	Mat.	Equip.	For.	Local	(bi.)	Labor	Material	Equipment	Foreign	Local	(PP)	
L002	Foreman	md	0, 40	T00.0%	0.0%	0.0%	0.0%	100.0%	566, 80	226, 40	0.00	0,00	0,00	226, 40	226, 40	
1,019	Skilled Labor	md	1, 10	100.0%	0.0%	0.0%	0.0%	100, 0%	403, 00	443.30	0, 00	0, 00]	0.00	443, 30	443, 30	1
L020	Unskilled Labor	md	0, 70	100.0%	0.0%	0, 0%	0.0%	100, 0%	314.00	219, 80	0.00	0.00	0, 00	219, 80	219.80	1
M08709	Steel Gas Pine, 6 150	m	10.00	0,0%	100.0%	0, 0%	60, 0%		707, 00	0, 60	7, 070. 00	0.00	4, 242.00	2, 828, 00	7, 070. 00	ì
M02012	Structural Steel (Flat Bar, SS400)	kg	10, 48	11,0%	100.0%	0.0%	70.0%		22, 70	0.00	237. 90	0,00	166, 53	71,37	237, 90	i i
<u> </u>	Miscellaneous	LS	1, 00	0.0%	30.0%	70.0%	55.0%	45, 0%		0.00	73. 78	172, 15	135. 26	110, 66	245, 92	3.0%
	Total									889, 50	7, 381. 68	172. 15	4, 543, 79	3, 899, 53	8, 443. 32	
	Components (%)									10.5%	87. 4%	2. 0%	53.8%	46. 2%	100.0%	
	Unit Rate	m								88. 92	737, 88	17. 21	454, 20	389, 80	844.00	

Miscellaneous covers the costs for falseworks, galvanizing or painting, welding equipment, welding rods, minor tools, etc.

SPL 407(5)a	Pier Protection Concrete Blocks for Any	cat Br	idge										Unit:	1, 344. 0 <u>0 m</u> 3	2	
İ						U	nji Rate					Amou	nt			
Item No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	For,	Local	(PP)(Labor	Material	Equipment	Poreign	Local	(99)	
WOGUI	Pier Protection Concrete Block Type A Production & Laying	each	112.00	14. 2%	62.0%	23. 8%	50, 3%	49, 7%	3, 080. 00	48, 958, 26	213, 781, 80	82, 219. 94	(73, 546, 29	171, 413. 71	344, 960, 00	
W0602	Pier Protection Concrete Block Type B Production & Laying	each	32, 00	14, 6%	61.6%	23. 8%	50.1%	49, 9%	2, 940, 00	13, 736, 13	57, 951. 24	22, 392, 63	47, 119. 54	46, 960, 46	94, 080. 00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	160.00	14.6%	61.4%	24.0%	50, 0%	50, 0%	2, 890, 00	67, 493. 77	283, 856, 92	111, 049, 31	231, 334. 32	231, 065, 68	462, 400, 00	
M0@11	Stone Laying	m3	403. 50	9.9%	14.3%	75.8%	47.5%	52. 5%	378.00	15, 035, 54	21, 830, 38	115, 657, 08	72, 505, 98	80, 017, 02	152, 523, 00	
M02011	Structural Steel (Round flat, SS400)	kg	681.80	0.0%	100,0%	0,0%	70, 0%	30.0%	21, 80	0.00	14, 863, 24	D. 00	10, 404, 27	4, 458, 97	14, 863, 24	
	Miscellaneous	LS	1,00	10.0%	30.0%	60.0%	50.0%	50, 0%		1,068.83	3, 206, 48	6, 412, 96	5, 344, 13	5, 344, 13	10, 688, 26	1.0%
	Total		"							146, 292, 52	595, 490. 05	337, 731, 92	540, 254, 52	539, 259, 98	1, 079, 514, 50	
	Components (%)				l					13.6%	55, 2%	31, 3%	50.0%	50. 0%	100.0%	
	Unit Rate	m2				L				108. 82	442, 96	251, 22	401.87	401, 13	803, 00	

Miscellaneous covers the costs for hed preparation, extra earthworks, adjustment, etc.

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Item No.	Description	Unit	Quantity		Con	ponent i	(%)	"	Total			Component (PP)			Total	Remarks
	<u> </u>			Lab,	Mat.	Equip.	For,	Local	(PP)	Labor	Material	Equipment	Forcign	Local	(PP)	_
W0601	Pier Protection Concrete Black Type A Production & Laying	each	70, 00	14. 2%	62.0%	23. 8%	50, 3%	49. 7%	3, 080. 00	30, 598, 91	133, 613. 63	51, 387, 46	109, 466, 43	107, 133, 57	215, 600, 00	
₩0602	Pier Protection Concrete Block Type B Production & Laying	each	20. 00	14.6%	61.6%	23.8%	50, 1%	49. 9%	2, 940, 00	8, 585, 08	36, 219, 52	13, 995. 40	29, 449, 71	29, 350. <i>2</i> 9	58, 800, 00	
₩0603	Pier Protection Concrete Block Type C Production & laying	each	100.00	14. 6%	61.4%	24.0%	50.0%	50, 0%	2, 890, 00	42, 183. 61	177, 410, 57	69, 405, 82	144, 583. 95	144, 416, 05	289, 000. 00	
W0611	Stone Laying	m3	254. 10	9, 9%	14.3%	75.8%	47.5%	52.5%	378, 00	9, 468. 48	13, 747, 46	72, 833, 86	45, 659, 90	50, 389, 90	96, 049, 80	
MO2011	Structural Steel (Round Bar, SS400)	kg	426. 20	0, 0%	100.0%	0.0%	70,0%	30.0%	21.80	0, 00	9, 291, 16	0.00	6, 503, 81	2, 787, 35	9, 291, 16	
	Miscellaneous	LS	1.00	10.0%	30.0%	60.0%	50, 0%	_50.0%		668.74	2, 006, 22	4, 012, 45	3, 343, 70	3, 343, 70	6, 687, 41	1.0%
	Total									91, 504. 82	372, 288, 56	211, 634, 99	338, 007, 51	337, 420, 86	675, 428, 37	
	Components (%)									13. 5%	55. 1%	31, 3%	50.0%	50, 0%	100.0%	
	Unit Rate	m2								108, 92	443, 16	251, 92	402, 35	401.65	804, 00	

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Ltem No.	Description	Unit	Quantity		Cor	nponent	(%)		Total			Component (PP)			Total	Remarks
				Lab.	Mat.	Equip.	for.	Local	(PP)	l.abor	Material	Equipment	fereign	Local	(PP)	
¥0601	Pier Protection Concrete Block Type A Production & Laying	each	. 24.00	14, 2%	62.0%	23.8%	50, 3%	49, 7%	3, 080. 00	10, 491, 86	45, 810. 39	17, 618, 56	37, 188, 49	36, 731. 51	73, 920, 00	
¥0602	Pier Protection Concrete Block Type 8 Production & Laying	each	104, 00	14. 6%	61,6%	23. 8%	50. 1%	49. 9%	2, 940. 00	44, 642. 42	188, 341, 51	72, 776. 06	153, 138, 50	152, 621, 50	305, 760, 00	
W0603	Pier Protection Concrete Block Type C Production & laying	each	88. 00	14.6%	61,4%	24.0%	50, 0%	50.0%	2, 890, 00	37, 121, 57	156, 121, 30	61,077.12	127, 233, 87	127, 086, 13	254, 320, 00	
W0611	Stone Laving] m3	262. 80	9.9%	14.3%	75, 8%	47.5%	52.5%	378, 00	9, 792, 66	14, 218, 15	75, 327, 59	47, 223, 23	52, 115, 17	99, 338, 40	
MO2011	Structural Steel (Round Bar, SS400)	kg	568, 20	0.0%	100.0%	0.0%	70,0%	30.0%	21.80	0,00	12, 386, 76	0,00	8,670.73	3, 716, 03	12, 386, 76	
	Miscellaneous	LLS	1.00	10.0%	30.0%	60.0%	50.0%	50.0%		745. 73	2, 237, 18	4, 474, 35	3, 728, 63	3, 729, 63	7, 457, 25	1,0%
	Total									102, 793, 44	419, 115. 29	231, 273, 68	377, 183, 45	375, 998, 96	753, 182, 41	
	Components (%)									13.6%	55. 6%	30, 7%	50, 1%	49. 9%	100.0%	
	Unit Rate					I				L14, 78	467. 98	258. 24	421, 16	419.84	841,00	

Miscellaneous covers the costs for bed preparation, extra earthworks, adjustment, etc.

SPL 420(1)	Temporary Access Road Crossing Streams/Rivers		Unit:	1, 00 l., S.

						1	git Rati	0				Атю	unt			
LLem No.	Description	Unit	Quantity			ponent	(%)		Total			Component (PP)			Total	Remarks
L				Lab.		Equip.	for,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(Pf)	
W0121	Borrow Soil, transported	m3	1, 840, 80	6.9%	22, 1%	71.0%	48.5%	51.5%	221.00	28, 177, 31	89, 735, 38	288, 904, 11	197, 442, 54	209, 374, 26	406, 816. 80	toss 20,0%
WO149	Filling, Laying & Compaction, bulldozer 21t	m3	1, 534, 00	1.5%	8. 2%	90, 3%	54.4%	45.6%	5ti, 00	1, 288, 56	7, 044. 13	77, 571. 31	46, 733, 73	39, 170, 27	85, 904, 00	
W0332	Procest Reinforced Concrete Pine (Extra Strength 32MPa), fabrication ##10 (24")	п .	21, 2n	10.2%	68.0%	21.8%	53. 6%	46.4%	1, 120. 00	2, 422. 62	16, 141. 48	5, 179, 90	12, 723, 85	(1, 020, 15	23, 744, 00	l
W0342	Precast Concrete Pipe Laying #610 (24*)	щ	21, 20	45.6%	8, 2%	46, 2%	29, 7%	70.3%	244, 00	2, 357. 01	425, 83	2, 389, 95	1, 535, 94	3, 636. 86	5, 172, 80	
W0352	Precast Concrete Pipe Removal #610 (24")	m	21. 20	44.9%	6, 1%	49, [%	30, 1%	69. 9%	75. 30	716. 30	96, 70	783, 35	481, 04	ί, 115, 32	1, 596, 36	
W0334	Precast Reinforced Concrete Pipe (Extra Strength), fabrication #910 (36*)	m	0, 00	10.8%	68.1%	21, 1%	53.5%	46. 5%	2, 660. 00	0, 00	0.00	0, 00	0.00	0.00	0. 00	
W0344	Precast Concrete Pipe Laying \$\phi 910 (36")	n	0,00	31.0%	8.6%	60.4%	37, 7%	62, 3%	513.00	0, 60	0.00	0, 00	8, 00	0.00	0,00	
W0354	Precast Concrete Pipe Removal \$910 (36")	Tri .	0, 00	30.7%	6.4%	62. 8%	37.9%	62. 1%	[58, 00	0. 00	0, 00	0.00	0, 00	0.00	u, oo	
W0335	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication \$1070 (42")	m	100, 80	11.2%	68. 4%	20. 4%	53. 4%	46.6%	3, 990. 00	44, 906. 33	275, 056. 47	82, 229. 20	214, 893, 62	187, 298. 38	402, 192, 66	
W0345	Procest Concrete Pipe Laying \$61070 (42")	m	100, 80	31, 4%	8.6%	60.0%	37.4%	62, 6%	590.00	18, 688, 25	5, 111. 37	35, 672, 38	22, 259. 61	37, 212. 39	59, 472, 00	
¥0355	Precast Concrete Pipe Removal ¢ 1070 (42")	l m	100.80	31, 2%	6, 1%	62. 4%	37, 6%	62, 4%	182. 00	5, 718, 24	1, 174. 95	11, 452, 41	6, 903. 18	11, 442, 42	(8, 345, 60	
W0336	Precast Reinforced Concrete Pipe (Extra Strength 32MPa), fabrication ¢1220 (48")	ra	0, 00	10.7%	68. 1%	21.2%	53, 5%	46.5%	4, 350, 00	0.00	0, 00	Ö. 00	0.00	0, 00	0.00	
W0346	Precest Concrete Pipe Laying φ 1220 (48")	п	0. 00	31.2%	8, 6%	60. 2%	37.6%	62.4%	661.00	0, 00	0, 00	0.00	0. 00	0.00	0, 00	
W0356	Precast Concrete Pipe Removal # 1220 (48")	m	0. 00	30, 9%	6, 4%	62. 7%	37. 8%	62, 2%	204.00	0. 00	0. 00	0. 00	0, 00	0.00	0.00	
WO105	Excavation, Backhoc 0.61m3	m3	1, 534, 00	4.4%	8, 4%	87.2%	52, 9%	47.1%	40.90	2, 760, 59	5, 270. 21	54, 709, 80	33, 176, 39	29, 564, 21	62, 740, 60	i i
W0111	Disposal of Surplus Soil (backhoe loading)	m3	1, 534. 00]	'			1	93. 00	11, 619. 60	21, 046. 73	109, 995. 68	73, 433. 71		142, 662, 00	
	Miscellaneous	LS	1.00	15,0%	40.0%	45.0%	50.0%	50, 0%		1, 812, 97	4, 834, 58	5, 438, 91	6, 043. 23	6, 043, 23	12, 086, 46,	1,0%
	Total									120, 467, 78	425, 937, 83	674, 327. 01	615, 626, 85	605, 105, 77	1, 220, 732, 62	
	Components (%)	L								9.9%		55. 2%	50, 4%	49, 6%	100.0%	
	Unit Rate	J., S.						L.,		120, 395, 48	425, 682, 21	673, 922, 31	615, 257, 38	604, 742, 62	1, 220, 000, 00	

Miscellancous covers the cost for temporary paving, maintenance, safety measures, etc.

SPL 420(2)	Realignment of River/Stream												Unit:	1,00 t	S.	_
		1 1				U. U	hit Rat	Ċ				Amou	int			
Item No.	Description	Unit	Quantity		Cor	nponent			Total			Component (PP)			Total	Remarks
				Lob.	Mat,	Equip.	For.		(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
₩0105	Excavation, Backhon 0,61m3	m3	0.00	4.4%	8, 4%	87. 2%	52.9%	47. (%)	40. 90	0.00	0, 00	0.00	0, (10	0.00	0,00	
W0121	Borrow Soil, transported	m3	0.00	6.9%	22, 1%	71.0%	48.5%	51.5%	221.00	0, 00	0.00	0, 00	0.00	0,00	0, 00	Loss 20,0%
W0149	Filling, Laying & Compaction, bulldoner 211	tan l	0.00	1, 5%	8, 2%	90, 3%	54.4%	45, 6%	56, 00	0, 00	0.00	0, 00	0. 00	0, 60	0, 00	
W0202	Concrete (Class B, 17MPa, max agg. 50mm)	m3	0.00	3.0%	75, 5%	21.5%	56.1%	43.9%	1, 400, 00	0, 00	0.00	0.00	0.00	0, 00	0, 00	Loss 2.0%
W0235	Concrete Pouring by Manpower for small structures	m3	0.00	98.0%	0.2%	1.8%	1. 1%	98, 9%	224. 00	8, 00	0.00	0. 00	0. 00	0.00	0, 00	
W0236	Concrete Curing (plain concrete)	m3	0.00	70, 9%	8.7%	20.4%	16.0%	84,0%	8. 85	U, 00	0.00	0, 00	0. 00	0.00	0.00	
W0240	Formwork (plain concrete H<4m)	m2	0, 00	58.9%	40.4%	11, 8%	2, 9%	97.1%	222, 00	0.00	0, 00	0. 00	0, 00	0.00	0.00	
₩0741	Grouted Riprap Class A	m3	0.00	15, 6%	63,8%	20.6%	48.0%	52, 0%	734.00	8,00	0.00	0.00	0, 00	0.00	0, 00	
<u> </u>	Miscellaneous	l.s	1.00	15.0%	48. <u>0%</u>	45,0%	40.0%	60.0%		0.00	0,00	0.00	0, 00	ი. აი	0.00	3, 0%
	Total			L						0.00	0.00	0.00	0.00	0.00	0.00	
	Components (%)						L			0.0%	0,0%	0.0%	0.0%	0.0%	0.0%	
	Unit Mate	1. S.								0.00	0, 00	0,00	0.00	0, 80	0.00	

Miscellaneous covers the cost for temporary shoring, revetment, maintenance, safety measures, etc.

SPL 420(3)	False Works Required for Cantilever Con.	struct	ian for PC Box	Girder	(Angat								Unit:	1, 00	L. S.	<u> </u>
			_				nit Rate	- ,				Amou	nt			
ltem No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Remarks
	D			Lab.	Mat.	Equip.	iar.	Local	(PP) [Labor	Material	Equipment	Foreign	Local	(PP)	
W0651	Temporary Support at Pier Head for Cantilever Construction	v·m3	5, 10	34. 3%	17.8%	47, 9%	35, 4%	64.6%	426. 00	745, 60	385. 81	1,041,20	768. 18	1, 404, 42	2, 172, 60	
W0652	Temporary Bracket Support at Pier Head For Cantilever Construction	Ł	299. 20	24, 4%	44.6%	31.0%	39. 2%	60, 8%	7, 840, 00	571, 320. 06	1, 046, 168. 85	728, 239. 09	919, 258, 08	1, 426, 469, 92	2, 345, 728, 00	
W0663	Temporary External & Internal Support at Pier Head for Cantileyer Construction	v-m3	1, 293. 20	29. 2%	30, 0%	40, 8%	37.5%	62.5%	172, 80	64, 889. 39	66, 813, 69	96, 727. 32	83, 394, 92	139, 035, 48	222, 430, 40	
W0654	Temporary Suspension Support at Center Connection for Cantilever Construction	ľ.	42, 20	24.6%	29. 2%	46, 2%	39, 9%	60, 1%	8, 330, 00	86, 420, 07	102, 619, 29	162, 486, 64	140, 113, 23	211, 412, 77	351, 526, 00	
¥0665	Temporary External & Internal Support at Center Connection for Cantilever Construction	ν-m3	185, 10	29.0%	28, 7%	43. 3%	38, 0%	62.0%	179. 00	9, 286, 47	9, 506, 81	14, 339, 62	12, 585. 02	20, 547, 88	33, 132. 90	
W 0656	Temporary Frame Support at Side Span for Cantilever Construction	ү∙ш3	3, 622, 50	21.4%	40.6%	38.0%	41.2%	58, 8%	93, 90	72, 641. 60	138, 142, 18	129, 368. 96	140, 247, 72	199, 905. ບາ	340, 152, 75	
W0657	Temporary External & Internal Support at Side Span for Cantilever Construction	у∙ш3	530, 60	29. 7%	29, 8%	41.5%	37. 3%	62. 7%	169, 00	26, 651. 49	25, 835, 69	37, 184. 22	33, 469, 30	56, 262. 10	89, 671, 40	
₩0661	Assembly & Disassembly of Form Traveler	set	12.08	23.4%			41.0%	59.0%	335, 000, 00	939, 626, 63	713, 336, 13	2, 367, 037, 24	1,648,909.10	2, 371, 090, 90	4,020,000,00	
WQ662	Form Traveler Shifting	time.	96, 00	78.7%	12.8%	8, 5%			2, 080, 00	157, 228. 35	25, 470. 99	16, 980, 66	21, 225, 83	178, 454, 17	199, 680. 00	
W0663	Form Traveler Lifting	time	96. 0ช	300, 0%	0.0%	0.0%	0.0%	100, 0%	4, 980, 00	478, 080. 00	0, 00	0.00	U. Q0	478, 080. 00	478, 080, 00	
WO664	Form Traveler Pulling Back	n	376.00	100.0%	0.0%	0,0%	0.0%	100, 0%	114, 00	42, 864, 00	0.00	0, 00	0.00	42, 864, 00	42, 864, 00	
Q1521-014	PC Bridge Cantilever Construction Form Traveler, ₩≤14m	dny	1, 393, 00	0.0%	0.0%	100.0%	60, 9%	39.1%	16, 700, 00	9.00	0. 00	23, 263, 100, 00	14, 178, 100, 34	9, 084, 999, 66	23, 263, 100, 00	
	Miscellaneous	LS	L. 00	5.0%	40, 0%	55.0%	50.0%	50.0%		31, 388. 54	251, 108, 30	345, 273, 92	313,885.38	313, 885, 38	627, 770, 76	2, 0%
	Total									2, 481, 142, 20	2, 379, 387, 74	27, 155, 778. 87	17, 491, 897, 11	14, 524, 411, 70		
	Components (%)									7, 7%	7.4%	84, 8%	54.6%	45. 4%	100.0%	
	Unit Rate	L. S.						L		2, 479, 878, 33	2, 378, 175, 70	27, 141, 945, 97	17, 482, 986, 90	14, 517, 013, 10	32, 000, 000, 00	

SPL 420(4)a	Temporary Craneway for Angat Bridge Con	struct	ion										Unit:	416,00 m		
		i.,					nit Rate	•				Amou	nt			
Item No.	Description	Unit	Quantity	Lab.		ponent ← Equip.		Local	Total (PP)	Labor	Material	Component (PP) Equipment	Foreign	I.oca1	Total (PP)	Remarks
W0406	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	RI	5, 845. 50	10. 2%	13, 5%	76. 2%	-	50. 1%	117.00	70, 033. 08	92, 533, 52	521, 356. 91	341, 371. 02	342, 552. 48	683, 923, 50	-,
₩040 7	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	5, 845, 50	10. 2%	13.5%	76, 4%	49, 9%	50, 1%	102.00	60, 641, 88	80, 248, 54	455, 350, 58	297, 778, 41	298, 462, 59	59 6, 241, 00	
₩0121	Temporary Access Bridge Superstructure Installation	۱ ر	568, 60	21.6%	8.0%	70.4%	43, 3%	56, 7%	1, 450. 00	177, 894, 68	65, 878. 30	580, 697. 02	357, 244. 16	467, 225, 84	824, 470. 00	
W0422	Temporary Access Bridge Superstructure Removal	t	568. 60	1				_ ` [.,	132, 517. 40	47, 294, 66	394, 473, 94	244, 055, 85	330, 230, 15	574, 286. 00	
₩0415 ₩0416	Temporary Deck Plate Installation	m2 m2	4, 784. 00						78. 20	132, 147, 93	21, 924, 40	220, 036, 47	133, 800. 15	240, 308, 65	374, 108. 80	
1	Temporary Dock Plate Removal Temporary Access Bridge Railing	l m∠	4, 784, 90			58,8%			42. 70	72, 106, 02	11, 976, 17	120, 194, 61	73, 088, 14	131, 188, 66	204, 276, 80	
W0423	Installation	m	1, 196, 00	36.1%	6.8%	57.1%	35, 3%	64. 7%	106, 00	45, 797. 19	8, 583. 31	72, 395, 50	44, 737. 98	82, 038, 92	126, 776, 00	
W0424	Temporary Access Bridge Railing Removal	m	1, 196. 00						56, 90	25, 914, 49	3, 679, 21	38, 458, 70	23, 289, 73	44, 762, 67	68, 052, 40	
MO5041	Temporary Steel Shapes Depreciation	t-d	624, 576, 00	0.0%	100.0%	0, 0%	50.0%	50.0%	31, 30	0, 00	19, 549, 228, 80	0, 08	9, 774, 614, 40	9, 774, 614, 40	19, 549, 228, 80	
M05051	Temporary Deck Plate Depreciation	m2∗d	2, 296, 320.00	0.0%	100.0%	0.0%	50.0%	50,0%	11.10	0.00	25, 489, 152, 00	0.00	12, 744, 576, 00	12, 744, 576, 00	25, 489, 152, 00	
M05055	Temporary Pipe Railing Bepreciation	m∙d	574, 080, 00	0.0%	100.0%	0,0%	50.0%	50, 0%	1. 33	0, 00	763, 526, 40	0, 00	381, 763, 20	381, 763, 20	763, 526, 40	
	Miscellaneous	LS	1,00	15.0%	40.0%	45, 0%	55.0%	45.0%		73, 881, 06	197, Q16, 17	221, 643, 19	270, 897, 23	221, 643, 19	492, 540, 42	1.0%
<u></u>	Total		1	Ľ						790, 933, 73	46, 331, 041, 47	2, 624, 606, 92	24, 687, 216, 28	25, 059, 365, 83	49, 746, 582, 12	
<u> </u>	Components (%)	ļ								1.6%	93. 1%	5. 3%	49. 6%	50, 4%	100.0%	
	Unit Rate	n	<u> </u>		L,			!		1, 907. 91	111, 760, 94	6, 331. 15	59, 551, 15	60, 448, 85	120, 000, 00	

Miscellaneous covers the costs for material haulage, maintenance, etc.

Depreciation Period =

H-Pile = Superstructure = 568.6 L

7, 794, U m

480 days

732. 6 L

Pile Briving Length = Dock Plate =

5,845.5 m 4, 784. 0 m2

Railing =

1, 196. 0 m

COST CT-1N04/Direct

SPL 420(4)b	Temporery Craneway for Pampanga Bridge	Const	uction										Unit:	320, 90	<u>m</u>	
						<u> </u>	nit Rate						nt			
Item No.	Description	Unit	Quantity			ponent			Total	·····		Component (PP)	·		Total	Remarks
	<u></u>			Lab.	Mat.	Equip.	For.	Loca l	(99)	l.abor	Material	Equipment	Poreign	Local	(PP)	
W0406	II-Pile Briving for Temporary Access Bridge (Vibro Hammer)	m	3, 290, 60	10. 2%	13, 5%	76. 2%	19.9%	50. 1%	117.00	39, 423. 63	52, 089, 78	293, 486. 79	192, 167. 56	192, 832, 64	385, 000. 20	
W0107	H-Pile Removal for Temporary Access Bridge (Yibro Hammer)	m	3, 290, 60	10, 2%	13, 5%	76. 4%	19. 9%	50.1%	102.00	34, 137. 05	45, 174, 21	256, 329. 93	167, 628. 03	168, 013. 17	335, 641, 20	
W0423	Temporary Access Bridge Superstructure Installation	t	428. 90	21,6%	8, 0%	70.4%	43.3%	56.7%	1, 450, 00	134, 187, 53	49, 692, 58	438, 024. 89	269, 472. 43	352, 432, 57	621, 905. 00	
W0422	Temporary Access Bridge Superstructure Removal	τ	428, 90	23, 1%	8,2%	68. 7%	42, 5%	57, 5%	1,010.00	99, 959, 04	35, 674, 78	297, 555, 18	184, 093, 49	249, 095, 51	433, 189, 00	
W0415	Temporary Deck Plate Installation	m2	3, 470.00	35, 3%	5.9%	58.8%	35.8%	64.2%	78, 20	95, 851, 45	15, 902, 52	159, 600, 03	97, 049. 86	174, 304, 14	271, 354, 00	
W0416	Temporary Deck Plate Removal	m2	3, 470, 80	35, 3%	5.9%	58.8%	35.8%	64, 2%	42. 70	52, 300. 98	8, 686, 73	87, 181, 29	53, 013, 35	95, 155, 65	148, 169, 00	
W0423	Temporary Access Bridge Railing Installation	n	900,00	36.1%	6.8%	57. 1%	35, 3%	64. 7%	106.00	34, 462, 77	6, 459, 01	54, 478. 22	33, 665, 71	61, 734, 29	95, 400. 00	
¥0424	Temporary Access Bridge Railing Removal	ta	900, 00	38.1%	5, 4%	56. 5%	34.2%	65.8%	56, 90	19, 500, 87	2, 768, 64	28, 940, 49	17, 525, 72	33, 684, 28	51, 210, 00	
M05041	Temporary Steel Shapes Depreciation	1.4	504, 780.00	0.15%	100 000	0.0%	50.0%	50, 0%	31.30	0.00	15, 799, 614, 60	0.00	7, 899, 807, 00	7, 899, 807. 00	15, 799, 614, 66	
M05051	Temporary Deck Plate Depreciation	m2·d	2, 082, 000, 00	0.0%	100.0%	0.0%	50.0%	50, 0%	11. 10	0, 00	23, 110, 200, 00	0.00	11, 555, 100, 00	11, 555, 100, 00	23, 110, 200, 00	
M05055	Temporary Pipe Railing Depreciation	m-d	540, 000, 00			0, 0%	50,0%	50.0%	1, 33	0, 00	718, 200, 00	0.00	359, 100, 00	359, 100, 00	718, 200. 00	
	Miscellaneous	LS	1, 00	15.0%	40.0%	45.0%	55.0%	45, 0%		62, 954, 82	167, 879, 53		230, 834, 35	188, 864. 47	419, 698, 82	1.0%
	Total	<u> </u>		$oxed{oxed}$						572, 77B, 15	40, 012, 341, 78	1, 804, 461, 30	21, 059, 457. 48	21, 330, 123, 74	42, 389, 581, 22	
	Components (%)	L								1. 4%	94, 4%	4. 3%	49, 7%	50.3%	100, 0%	
	Unit Wate	l m								1, 783, 62	124, 597, 34	5, 619, 04	65, 578. 58	66, 421, 42	132,000.00	

412.4 t

Pile Driving Length = Deck Plate = Railing =

3, 290.6 m 3, 470.0 m2

Superstructure = Depreciation Period = 428.9 t 600 days

900,0 m

L 420(4)c	Temporary Craneway for Talavera Bridge	Constr	ruction						~				Unit:	80.00 m	L	
		1					nit Rate	· · · · · ·				Amou	nt			
Ltem No,	Description	Unit	Quantity			mponen t			Total			Component (₽P)			Total	Remark:
		1		Lab.	Mar.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(99)	
WO406	M-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	1, 042. 88	10, 2%	13.5%	76. 2%	49.9%	50.1%	117. 00	12, 494. 35	16, 508, 58	93, 013. 45	6B, 902, 80	61, 113, 58	122, 016, 38	
W0407	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	1,042.88	10.2%	13.5%	76.4%	49,9%	50.1%	102.00	10, 818, 90	14,316,86	81, 237, 49	53, 125, 59	53, 247, 66	106, 373, 25	
W0421	Temporary Access Bridge Superstructure Installation	t	126, 00	21.6%	8.0%	70.4%	43, 3%	56.7%	t, 450. 00	39, 422. 41	14, 598, 98	128, 685, 54	79, 167, 20	103, 539. 73	182, 706, 93	
₩0422	Temporary Access Bridge Superstructure Removal	t	126, 00	23. 1%	8. 2%	68. 7%	42, 5%	57.5%	1, 010, 00	29, 366, 56	10, 490. 75	87, 417, 52	54, 084, 07	73, 180. 76	127, 264, 83	
W0415	Temporary Deck Plate Installation	m2	1,004,00	35. 3%	5.9%	58.8%	35. 8%	64. 2%	78, 20	27, 733, 39	4, 601, 79	46, 178, 22	28, 080, 13	50, 432, 67	78, 512, 80	
¥0416	Temporary Deck Plate Removal	m2	1,004.00	35, 3%	5,9%	58.8%	35.8%	64.2%	42, 70	15, 132, 62	2, 513, 39	25, 224, 79	15, 338, 73	27, 532, 07	42, 870, 80	
W0423	Temporary Access Bridge Railing Installation	m	264.00	36, 1%	6, 8%	57.1%	35.3%	64. 7%	106, 00	10, 109. 08	1, 894. 64	15, 980, 28	9, 875, 27	18, 108, 73	27, 984, 00	
W0424	Temporary Access Bridge Railing Removal	ns.	264.00	38, 1%	5,4%	56.5%	34.2%	65.8%	56, 90	5, 720. 26	812, 13	8, 489. 21	5, 140. 88	9, 880, 72	15, 021. 60	
M05041	Temporary Steel Shapes Depreciation	t•d	100, 117, 59				50.0%	50,0%	31. 30	0, 08	3, 133, 686, 57		1, 566, 840, 29	1, 566, 840, 29	3, 133, 680, 57	
M05051	Temporary Deck Plate Depreciation	m2·d	391, 560, 00	0.0%	100.0%	0.0%	50.0%	50,0%	11.10	0, 00	4, 346, 316. 00	0.00	2, 173, 158, 00	2, 173, 158, 00	4, 346, 316, 00	
1105055	Temporary Pipe Railing Depreciation	m·d	102,960.00	0,0%	100.0%	G. 0%	50.0%	60.0%	1.33	0.00	136, 936, 80	0.80	68, 468. 40	68, 468, 40	136, 936. BO	
	Miscellaneous	I.S	1,00	15.0%	40.0%	45.0%	55, 0%	45.0%		12, 479. 53	33, 278, 74	37, 438, 58	45, 758. 26	37, 438, 58	83, 196, 84	1.0
	Total	1			∟'''					163, 277, 09	7, 715, 938. 63	523, 665, 08	4, 159, 939, 63	4, 242, 941, 17	8, 402, 880, 80	
	Components (%)	1								L. 9%	91.8%		49. 5%	50. 5%	100.0%	
	Unit Rate	1 78			1 —					2, 040, 26	96.416.17	6 543 57	51, 981, 42	53, 018, 58	105 000 00	

130, 7 t

Pile Driving Leagth = | Deck Plate = | Railing =

1,042.9 m 1,004.0 m2

Depreciation Period

390 days

264.0 m

SPL 420(5) m	Temporary Access Road (Causeway) for Ar	gat Br	idge Construct	ion									Unit:	710, 00	m	
		T i				U	nit Rate					Amou	nl			
Item No.	Description	Unit	Quantity		Cor	nponent -	(%)		Total			Component (PP)			Total	Kemarks
	<u> </u>	11		Lab.	Mat	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Łocal	(PP)	
W0121	Borrow Sail, transported	m3	14, 179, 50	6.9%	22.1%	71.0%	48.5%	51.5%	221,00	217,047.04	691, 222, 72	2, 225, 399, 75	1,520,880,36	1,612,789,14	3, 133, 669, 50	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer	m3	12, 330. 00	l. 5%	8, 2%	90.3%	54.4%	45.6%	56, 00	10, 357, 20	5 6 , 619, 36	623, 503. 44	375, 636, 84	314, 843, 16	690, 480. 00	
W0122	Crushed Aggregate, transported	m3	1, 339, 75	9. 1%	15, 5%	75. 4%	47.0%	53.0%	258.00	31, 361, 23	53, 684. 81	260, 609. 46	162, 579, 47	183, 076, 03	345, 655, 50	Loss 15.0%
W0149	Filling, Laying & Compaction, bulldozer	m3	1, 165.00	1.5%	8, 2%	90, 3%	54, 4%	45,6%	56.00	978. 60	5, 349. 68	58, 911, 72	35, 492, 05	29, 747, 95	65, 240, 00	
W0105	Excavation, Backhoe 0.61m3	m3	13, 495, 00	4. 1%	8.4%	87, 2%	52, 9%	47. 1%	40.90	24, 285, 60	46, 363, 42	481, 296, 48	291, 861, 38	260, 084, 12	551, 945, 50	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	13, 495, 00	9.1%	14.8%	77.1%	51.5%	48. 5%	93. 00	102, 220, 65	185, 153, 57	967, 660, 78	646, 015, 58	609, 019. 42	1, 255, 035, 00	
	Miscellaneous	LS	1.00	15.0%	40. <u>0%</u>	45, 6%	45.0%	55.0%		9, 063, 04	24, 168. 10	27, 189, 11	27, 189, 11	33, 231, 14	60, 420, 26	1.0%
	Total									395, 313. 36	1, 062, 561, 66		3, 059, 654. 78	3, 042, 790, 97		
	Components (%)									6. 5%	17. 4%		50, 1%	49, 9%	100.0%	
	Unit Rate									556. 46	t, 495, 70	6, 537, 85	4, 306, 87	4, 283, 13	8, 590. 00	

Miscellaneous covers	the costs f	or maintenance	works, mino:	r works, etc.

SPL 420(5)b	Temporary Access Road (Causeway) for Pa	mpanga	Bridge Constr	uction									l/nit:	880.00	<u> </u>	
						<u> </u>	hit Rate	}		Amount						ì
Item No.	Description	Unit	Quantity		Çor	ponent	(%)		Total			Component_(PP)			Total	Remarks
		٠.		Lah,	Mat	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Fornign	Local	(PP)	
WQ121	Borrow Soil, transported	m3	14, 099, 00	6, 9%	22. 1%	71.0%	48.5%	51.5%	221.00	215, 814, 82	687, 298, 50	2, 212, 765. 68	1, 512, 246, 00	1, 603, 633, 00	3, 115, 879, 00	Loss 15.0%
WO149	Filling, Laying & Compaction, bulldozer	m3	12, 260, 00	1.5%	8, 2%	90.3%	54.4%	45, 6%	56. 00	10, 298. 40	56, 297. 92	619, 963. 68	373, 504. 27	313, 055. 73	686, 560, 00	
W0122	Crushed Aggregate, transported.	m3	1, 660, 60	9.1%	15, 5%	75.4%	47.0%	53.0%	258.00	38, 871. 77	66, 541, 51	323, 021. 52	201, 514, 81	226, 919, 99	428, 434, 80	Loss 15.0%
WO149	Filling, Laying & Compaction, bulldozer	т3	1, 444, 00	1.5%	8, 2%	90.3%	54.4%	45, 6%	56, 00	1,212,96	6, 630, 85	73,020.19	43, 991, 86	36, 872, 14	86, 864, 00	
W0105	Excavation, Backhoe 0,61m3	m3	13, 704, 00	4.4%	8, 4%	87. 2%	52.9%	47.1%	40, 90	24, 661. 72	47, 081, 46	488, 750, 42	296, 381, 50	264, 112, 10	560, 493, 60	
W0111	Disposal of Surplus Soil (backhoe (loading)	m3	13, 704, 00	8. 1%	14, 8%	77. 1%	51,5%	18, 5%	93.00	103, 803, 76	188, 021, 08	982, 647, 15	656, 020, 56	618, 451. 44	1, 274, 472, 00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45. 0%	46.0%	55.0%	i	9, 220. 06	24, 586, 81	27, 660, 17	27, 660, 17	33, 806, 87	61, 467, 03	1.0%
	Total									403, 883. 49	1, 076, 458, 14	4, 727, 828, 81	3, 111, 319, 16	3, 096, 851, 27	6, 208, 170, 43	
	Components (%)									6, 5%	17.3%	76. 2%	50, 1%	49.9%	100,0%	
	Unit Rate	l m								458, 65	ι, 222. 43	5, 368, 92	3, 533. 21	3, 516, 79	7, 050, 00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(5) c	Temporary Access Road (Causeway) for Ta	laver	a Bridge Constr	uction									<u>Unit:</u>	300, 00 m		
							nit Rate	e		Amount						
Item No.	Description	Unit	Quantity		Сол	ponent			Total			Component (PP)			Total	Remarks
·		L		Lab,	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
₩0121	Borrow Soil, transported	m3	7, 762, 50	6.9%	22, 1%	71.0%	48, 5%	51.5%	221.00	119, 821, 37	378, 406. 60	1, 218, 284, 53	832, 598. 74	882, 913, 76	1,715,512.50	.oss 15.0%
₩0149	Filling, Laying & Compaction, bulldozer 21t	m3	6, 750, 00	1.5%	8. 2%	90, 3%	54. 4%	45.6%	56, 00	5, 670. 00	30, 996, 00	341, 334, 00	205, 640, 61	172, 359, 39	378, 000, 00	
W0122	Crushed Aggregate, transported	m3	565, 80	9, 1%	15.5%	75, 4%	47.0%	53.0%	258.00	13, 244, 40	22, 672, 04	110, 059, 96	68, 660. 17	77, 316, 23	145, 976, 40	Lass 15.0%
W0149	Pilling, Laying & Compaction, bulldozer	m3	492, 00	1.5%	8. 2%	90.3%	54. 4%	45, 6%	56, 00	413, 28	2, 259. 26	24, 879, 46	14, 988. 92	12, 563, 08	27, 552. 00	}
W0105	Excavation, Backhoe 0.61m3	т3	7, 242, 00	4, 4%	8, 4%	87.2%	52.9%	47. 1%	40.90	13, 032, 70	24, 880, 62	258, 284, 48	156, 625, 42	139, 572, 38	296, 197, 80	İ
WOILE	Disposal of Surplus Soil (backhoe loading)	m3	7, 242, 00	н. 1%	l 1. 8%	77. 1%	51.5%	48, 5%	93, 00	64, 856, 02	99, 361. 41	519, 288, 58	346, 679, 87	326, 826, 13	673, 506, 00	
\	Miscellaneous	LS	1,60	15.0%	40,0%	15.0%	45,0%	55,0%		4, 855, 12	12, 946, 98	14 <u>, 565</u> , 35	14, 565, 35	17, 802, 10	32, 367, 45	1.0%
	Total		L							210, 892, 89	571, 522, 90	2, 486, 696, 36	1, 639, 759, 07	1, 629, 353. 08	3, 269, 112, 15	
	Components (%)	·								6.5%	17.5%	76, 1%]	50.2%	49, 8%	100.0%	
	Unit Kate	l m								703. 17	1, 905, 59	8, 291. 24	5, 467, 35	5, 432. 65	10, 900, 00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(6)в _	Temporary Cofferdam for Pier Constructi	on (At	gat Hridge Typ	e 1)									llnit:	1.00	each	
						l	Init Rati	ė .			Amount					
Item No.	Description	Unit	Quantity		Cor	npane <u>nt</u>	(%)		Total			Component (PP)			Total	Remarks
	1 ł		l.ah,	Mat.	Equip.	For.	Local	(PP)	Labor	<u>Material</u>	Equipment	Foreign	Local	(PP)		
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammer)	п	3, 494, 00	9. 6%	14, 8%	75, 6%	50.4%	49.6%	126, 00	42, 264, 99	65, 160, 57	332, 818. 44	221, 919. 43	218, 324, 57	440, 244, 00	
¥0452	Temporary Sheet Pile Removal for cofferdam, (Yibro Hammer)	8	3, 494, 110	9, 6%	14.8%	75.6%	50.4%	49.6%	77. 70	26, 116, 95	40, 257. 76	205, 109, 09	136, 830. 69	134, 653. 11	271, 483. 80	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)	m	124.00	9, 6%	14, 9%	75, 5%	50. 1%	49.6%	149, 00	1, 781, 61	2, 746, 21	13, 948. 18	9, 310, 55	9, 165, 45	18, 476, 00	
WO456	H-Pilc Removal for Temporary Access Bridge (Vibro Hammer)	m	124. 00	9, 7%	14, 9%	75, 4%	50.4%	49.6%	85, 70	1, 027, 70	ւ, 583. 77	8, 015, 33	5, 354. 03	5, 272, 77	10, 626. 80	
WO413	Temporary Struts & Tie Rod Installation	t	fil. 60	31,0%	11.1%	58.0%	38.4%	61.6%	4, 210, 00	80, 347, 23	28, 691, 52	150, 297. 25	99, 515. 99	159, 820, 01	259, 336, 00	
WO414	Temporary Struts & Supports Removal	t	61.60	28.8%	9, 4%	61.7%	39, 3%	60.7%	2, 120, 00	37, 658, 24	12, 296, 08	80, 637. 69	51, 358, 59	79, 233, 41	130, 592, 00	
WO423	Temporary Access Bridge Railing Installation	n	49, 20	36. 1%	6, 8%	57. 1%	35, 3%	64.7%	106, 00	1, 883. 96	353, 09	2, 978. 14	1, 840, 39	3, 374. 81	5, 215, 20	
₩0424	Temporary Access Bridge Railing Removal	m	49, 20	38. 1%	5.4%	56.5%	34.2%	65.8%	56, 90	1, 066, 05	151, 35	1,582.08	958. 07	1, 841. 41	2, 799, 48	
M05031	Temporary Sheet Pile Depreciation	t d	20, 045, 00	0, 0%	100.0%	0.0%	50.0%	50.0%		0. 80	667, 498, 50	0.00	333, 749, 25	333, 749. 25	667, 498, 50	
M05041	Temporary Steel Shapes Depreciation	ι·d	4, 551, 00	0, 0%	100.0%					0.00	142, 446. 30		71, 223, 15	71, 223, 15	142, 446, 30	
M05055	Temporary Pipe Railing Depreciation	m-d	4, 200, 00	0.0%	100.0%	0.0%	50.0%	50.0%	1. 33	0, 00	5, 586, 00	0.00	2, 793, 00	2, 793, 00	5, 586. 00	

2, 980, 00

1, 190, 00

221.00

88. 80

40. 90

93.00

29.9%

51.3%

48.5%

53.3%

52.9%

51.5%

50.0%

70. 1%

48, 7%

51.5%

46, 7%

47.1%

48.5%

50.0%

1, 331, 63

5, 820, 48

10, 284, 53

1,924,75

1,099.20

4,626.63

3, 469, 64

220, 703, 60

221,060.16

205.57

14, 816, 08

32, 752, 83

4, 358, 18

2,098,46

8, 380, 27

9, 252, 38

1, 038, 634, 92

1, 040, 312, 91

1, 342, 80

50, 763, 44

105, 448, 12

47, 956, 11

21, 784. 06

43, 797. 50

10, 408, 93

1, 076, 887, 15

1, 078, 626, 93

862, 27

36, 657, 89

72,065,24

29, 911, 88

13, 210, 00

29, 239, 45

11,565.47

48, 3%

1, 127, 365, 35

1, 129, 186, 69

2, 017, 73

34, 742, 11

76, 420, 24

25, 327, 16

11, 771, 72

27, 564, 95

11, 565, 47

51.7%

1, 208, 860, 32

1, 210, 813, 31

Unit Rate each Miscellaneous covers the costs for maintenance works, minor works, etc.

Temporary Drain Pump Installation &

Temporary Drain Pump Operation

Disposal of Surplus Soil (backhoe

Total

Components (%)

Borrow Soil, transported

Excavation, Backhoe 0.61m3

set

day

m3

m3

m:3

m3

LS

1.00

60, 00

671.88

610.80

610, 80

610, 80

1,00

46. 2%

8. 2% 6. 9%

3. 5%

4.4%

8. 1%

15.0%

7.1%

20.8%

22, 1%

8.0%

8.4%

14.8%

40.0%

46.6%

71.1%

71.0%

88. 4%]

87, 2%

77.1%

45.0%

						{}	ıit Kate									
item No.	Description	limit	Quantity			ponent			Total			Component (PP)			Total	Remarks
		<u> </u>		Lab.	Mat.	Equip.	For.	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0451	Temporary Sheet Pile Oriving for cofferdam, (Vibro Hammer)	. m	5, 020, 00	9.6%	14.8%	75, 6%	50, 4%	49, 6%	126, 00	60, 724. 17	93, 619, 36	478, 176, 47	318, 842, 46	313, 677, 54	632, 520, 00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	5, 020. 00	9, 6%	14.8%	75.6%	50.4%	49, 6%	77. 70	37, 523, 50	57, 840. 28	294, 690, 23	196, 591, 32	193, 462, 68	390, 054, 00	
W0455	H∺Pile Oriving for Temporary Access Bridge (Vibro Hammer)	n)	124.00	9,6%	14.9%	75. 5%	50.4%	49, 6%	149, 00	1,791.61	2, 746, 21	13, 948, 18	9, 310, 55	9, 165, 45	18, 476, 00	
₩0456	N-Pile Removal for Temporary Access Bridge (Vibro Hammer)	n	124, 00	9, 7%	14.9%	75. 4%	50.4%	49. 6%	85. 70	1,027.70	1,583,77	8, 015, 33	5, 354. 03	5, 272, 77	10, 626. 80	
W0413	Temporary Struts & Tie Red Installation	l t	86.00	31.0%	11.1%		38.4%		4, 210, 00	112, 173, 09	40, 056, 34	209, 830, 57	138, 934, 67	223, 125, 33	362, 060, 00	
W0414	Temporary Struts & Supports Removal	ι	86.00	28, 8%	9.4%	61.7%	39.3%	60, 7%	2, 120, 00	52, 574, 81	17, 166, 60	112, 578, 58	71, 701, 93	110, 618. 07	182, 320, 00	
₩0423	Temporary Access Bridge Railing Installation	m	52.80	36, 1%	6, 8%	57.1%	35, 3%	64, 7%	106.00	2, 021. 82	378, 93	3, 196.06	1, 975, 95	3, 621, 75	5, 596. 80	
W0424	Temporary Access Bridge Railing Removal	m.	52, 80	39, 1%	5. 1%	56.5%	34. 2%		56.90	1, 144. 05	162, 43	L, 697. B4	1, 028, 18	1, 976, 14	3, 004. 32	
MU5031	Temporary Sheet Pile Depreciation	[t · d]	22, 921.00	0.0%	100.0%	D. 0%	50.0%	50.0%	33, 30	0.00	763, 269, 30	0, 00	381, 634, 65	381, 634, 65	763, 269, 30	
MO5041	Temporary Steel Shapes Depreciation	1.4	6, 019. 00	IJ, O%	100,0%	0.0%	50,0%	50, 0%	31.30	0, 00	188, 394, 70	0.00	94, 197, 35	94, 197, 35	198, 394, 70	
M05055	Temporary Pipe Railing Depreciation	m·d	3, 168, 00	8.0%	100.0%	0,0%	50, 0%	50.0%	t. 33	0.00	4, 213, 44	Ø. DO	2, 106, 72	2, 106, 72	4, 213, 44	
W Q431	Temporary Drain Pump Installation & Removal	set	1,00	46.2%	7, 1%	46,6%	29.9%	70. L%	2, 880. 00	1,331,63	205. 57	1,342.80	862. 27	2,017.73	2, 880, 80	
W0432	Temporary Drain Pump Operation	day	60, 80	8.2%	20, 8%	7 L. 1%	51.3%	18. 7%	1, 190, 00	5, 820. 48	14, 816, 08	50, 763, 44	36, 657, 89	34, 742, 11	71, 400, 00	
W0121	Borrow Soil, transported	m3	770, 88		22.1%	71.0%	48.5%		221.00	11, 799, 94	37, 578, 88	120, 985, 66	82, 683, 89	87, 680, 59	170, 364, 48	Loss 1
W0131	Backfill A	m3	700, 80	3.5%	8,0%	89. 4%	53.3%	16.7%	89, 80	2, 208, 36	5, 000. 35	55, 022, 33	33, 171. 98	29, 059, 06	62, 231, 04	
W0105	Excavation, Backhoe 0.61m3	Em [700. 80	4.1%	8.4%	87. 2%	52.9%	17.1%	40. 90	1, 261, 16	2, 407. 67	24, 993, 89	15, 156, 46	13, 506, 26	28, 662, 72	
W0111	Disposal of Surplus Soil (backhoe loading)	m3	700, 80	8.1%	14.8%	77. 1%	51.5%	48, 5%	93, 00	5, 308. 35	9, 615, 09	50, 250. 96	33, 547, 81	31, 626, 59	65, 174, 40	
	Miscellaneous	LLS	1.00	15, 6%	40,0%	45.0%	50.0%	50, 0%		4, 441, 87	11, 844, 99	13, 325, 62	14, 806, 24	14, 806, 24	29, 612, 48	1.0%
	Total									301, 142, 53	t, 250, 899, 99	1, 438, 817. 96	1, 438, 563, 45	1,552,297.03	2, 990, 860, 48	
	Components (%)									10.1%	41.8%	48. 1%	48, 1%	51.9%	100.0%	
	Unit Rate	each							1	301, 055, 89	1, 250, 540, 10	1, 438, 404, 01	1, 438, 149, 57	1, 551, 850, 43	2, 990, 000, 00	

Miscellaneous covers the costs for maintenance works, minor works, etc.

W0431

W0432

W0121

W0131

W0105

W0111

Removal

Backfill A

Miscellancous

loading)

2,880.00

71, 400, 00

148, 485, 48

54, 239, 04

24, 981, 72

56, 804, 40

23, 130.95

100.0%

2, 336, 225. 67

2, 340, 000, 00

loss 10,0%

1.0%

		1 1					nįt Rate					Amour	1t			
tem No.	Description	llnit	Quantity		Сол	ponent (Total						Total	Remarks
		1		Lab,	Mat.	Equip. {	For.	Local	(19)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vibro Hammor)	m	3, 852. 00	9. 6%	14, 8%	75.6%	50, 4%	49. 6%	126, 00	46, 595, 52	71, 837. 01	366, 919, 47	244, 657, 60	240, 694. 40	485, 352, 00	
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m ,	3, 852, 00	9.6%	14.8%	75, 6%	50, 4%	49. 6%	77.70	28, 792, 93	44, 382, 62	226, 124, 85	150, 850, 55	148, 449, 85	299, 300. 40	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Hammer)] m]	92, 00	9, 6%	14. 9%	75.5%	50, 4%	49. 6%	[49, 00]	1, 321, 84	2, 037, 51	10, 348, 65	6, 907. 82	6, 800, 18	13, 708. 00	
W0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammor)	m	92. 00	9.7%	l4. 9%	75, 4%	50.4%	49. 6%	85, 70	762, 49	1, 175, 05	5, 946, 86	3, 972. 35	3, 912, 05	7, 884. 40	
W0413	Temporary Struts & Tie Rod Installation	t	69, 50	31.0%	11.1%	58.0%	38, 4%	61,6%	4, 210, 00	90, 651, 50	32, 371, 11	169, 572, 38	112, 278, 60	180, 316, 40	292, 595, 00	
W0414	Temporary Struts & Supports Removal	ι	69.50	28.8%	9.4%	61.7%	39, 3%	60.7%	2, 120. 00	42, 487, 79	13, 873, 01	90, 979, 20	57, 945, 16	89, 394. 84	147, 340, 00	
W0423	Temporary Access Bridge Railing Installation	110	52. 80	36, 1%	6, 8%	57. 1%	35. 3%	64, 7%	106, 00	2, 021, 82	378, 93	3, 196, 06	1, 975. 05	3, 621. 75	5, 596, 80	
W0424	Temporary Access Bridge Railing Removal	m	52, 80	38, 1%	5.4%	56.5%	34.2%	65. 8%	56, 90	1, 144, 05	162, 43	1, 697, 84	1, 028. 18	1, 976, 14	3, 004. 32	
M05031	Temporary Sheet Pile Depreciation	td	17, 588, 00	0.0%	100.0%	0.0%	50, 0%	50, 0%	33, 30	fi, 00	585, 680, 40	0.00	292, 840, 20	292, 840. 20	585, 680, 40	
MO5041	Temporary Steel Shapes Depreciation	(-d	4, 845, 00	0.0%	100,0%	0.0%	50.0%	50.0%	31.30	0.00	151, 648, 50	n. oo	75, 824, 25	75, 824, 25	151,648.50	
MO5055	Temporary Pipe Railing Deprociation	m∙d	3, 168, 00	0.0%	100, 0%	0.0%	50, 0%	50, 0%	l. 33	0.00	4, 213, 44	0.00	2, 106. 72	2, 106, 72	4, 213, 44	
₩043l	Temporary Grain Fump Installation & Removal	set	1, 00	46, 2%	7. 1%	46. 6%		70. เ‰	2, 880, 00	1, 331. 63	205. 57	1, 342, 80	862. 27	2, 017, 73	2, 880. 00	
¥0432	Temporary Drain Pump Operation	day	60, 00	8, 2%]	20.3%	7 L. 1%]		48. 7%	1, 190, 00	5, 820, 48	14, 816, 08	50, 763, 44	36, 657. 89	34, 742, 11	71, 400, 00	
₩012I	Borrow Soil, transported	m3	818, 40		22.1%	71.0%		51, 5%	221.00	12, 527, 33	39, 895, 39	128, 443, 68	87, 780. 84	93, 095, 56	180, 866, 40	Loss
W0131	Backfill A	m3	744, 00	3.5%	8.0%	88. 4%		16, 7%	88. 80	2, 344, 49	5, 308, 59	58, 414, 12	35, 216, 83	30, 850, 37	66, 067, 20	
W0105	Excavation, Backhoe 0.61m3	m3	744.00	4.4%	8. 4%	87, 2%	52.9%	47.1%	40, 90	1, 338, 90	2, 556. 09	26, 534, 61	16, 090. 76	14, 338, 84	30, 429, 60	
W0111	Disposal of Surplus Soil (backhoe londing)	m3	744.00	8, 1%	14.8%	77. 1%	51.5%	48. 5%	93, 00	5, 635, 58	10, 207. 80	53, 348, 62	35, 615, 83	33, 576. 17	69, 192, 00	
	Miscellaneous	LS	1.00	15.0%	40.0%	45.0%	50.0%	50.0%		3, 625, 74	9, 668, 63	10, 877, 21	12, 085, 79	12, 085. 79	24, 171, 58	1.0%
	Total									246, 402, 09	990, 418, 16	1, 204, 509, 80	l, 174, 696, 70	1, 266, 633, 35	2, 441, 330, 04	
	Components (%)	ШΙ								10.1%	40. 6%	49.3%	48. 1%	51.9%	100.0%	
	Unit Rate	each								246, 267, 85	989, 878, 58	1, 203, 853, 58	1, 174, 056, 72	1, 265, 943, 28	2, 440, 000, 00	

Unit Nate each
Miscellaneous covers the costs for maintenance works, minor works, etc.

SPL 420(6)d	Temporary Cofferdam for Pier Constructi	on (Ta	lavera Bridge)										Unit:	1.00 c	ach	
		1 1					nit Rate					Атон	ıt			
Item No.	Description	Unit	Quantity			ponent			Total			Component (PP)			Total	Remarks
		\sqcup		Lab.	Mat.	Equip.	For,	Local	(PP)	Labor	Material	Equipment	Foreign	Local	(PP)	
W0451	Temporary Sheet Pile Driving for cofferdam, (Vihro Hammer)	n l	2, 470, 00	9.6%	14.8%	75, 6%	50.4%	49.6%	126.00	29, 878, 23	46, 063. 71	235, 278, 06	156, 880. 65	154, 339, 35	311, 220, 00	ļ
W0452	Temporary Sheet Pile Removal for cofferdam, (Vibro Hammer)	m	2, 470. 00	9.6%	14.8%	75.6%	50, 4%	49, 6%	77. 70	18, 462, 76	28, 459, 26	144, 996, 98	96, 729. 19	95, 189. 81	191, 919, 00	
W0455	H-Pile Driving for Temporary Access Bridge (Vibro Nammer)	m	92. 00	9, 6%	14.9%	75.5%	50.4%	49.6%	149.00	1, 321. 84	2, 037, 51	10, 348. 65	6, 907. 82	6, 800. 18	13, 708, 90	
₩0456	H-Pile Removal for Temporary Access Bridge (Vibro Hammer)	m	92, 00	9.7%		i	50, 4%	49.6%	85. 70	762, 49	1, 175. 05	5, 946. 86	3, 972. 35	3, 912. 05	7, 884. 40	
W0413	Temporary Struts & Tie Rod Installation	t l	37. 40		11.1%		38. 4%	61.6%	4, 210. 00	48, 782. 25	17, 419, 85	91, 251, 90	60, 420, 42	97, 033, 58	157, 454, 00	
W0414	Temporary Struts & Supports Removal	L	37, 40	28.8%	9, 4%	61.7%	39. 3%	60.7%	2, 120, 00	22, 863, 93	7, 465, 48	48, 958, 59	31, 182.00	48, 106, 00	79, 288, 00	
W0423	Temporary Access Bridge Railing Installation	"	49, 10	36, 1%	6.8%	57.1%	35. 3%	64. 7%	106. 00	1, 880. 14	352, 38	2, 972. 09	1, 836, 65	3, 367, 95	5, 204, 60	
W0424	Temporary Access Bridge Railing Removal	m	49. 10	38, 1%	5, 4%	56.5%	34. 2%	65.8%	56, 90	1,063.88	151, 04	1, 578, 86	956. 13	1, 837, 66	2, 793, 79	
M05031	Temporary Sheet Pile Depreciation	tid	15, 369, 00		100.0%	0.0%	50, 0%	50.0%	33, 30	0, 00	511, 787, 70	0, 00	255, 893, 85	255, 893, 85	511, 787, 70	
M05041	Temporary Steel Shapes Depreciation	t-d	2, 918, 00				50.0%	50.0%	31.30	0.00	91, 333, 40	0.00	45, 666, 70	45, 666, 70	91, 333, 40	
M05056	Temporary Pipe Railing Depreciation	m∙d	2, 943, 00	0.0%	100,0%	0.0%	50.0%	50, 0%	1. 33	0, 00	3, 914, 19	0, 00	1, 957, 10	1, 957, 10	3, 914, 19	
W0431	Temporary Drain Pump Installation & Removal	set	1, 00	46. 2%	7.1%	46.6%	29. 9%	70. 1%	2, 980. 00	1, 331, 63	205. 57	1, 342. 80	862, 27	2, 017, 73	2, 880, 00	
W0432	Temporary Drain Pump Operation	day	60, 00				51,3%		1, 190, 00	5, 820, 48	14, 816, 08	50, 763, 44	36, 657, 89	34, 742, 11	71, 400, 00	
W0121	Borrow Soil, transported	m3	587, 95		22.1%	71.0%	48, 5%		221.08	8, 999. 81	28, 661. 41	92, 275, 73	63, 062, 99	66, 873, 96	129, 936. 95	l.oss 10,0%
WO131	Backfill A	m3	534, 50		8,0%			46. 7%	88.80	1, 684, 32	3, 813, 76	41, 965, 52	25, 300, 26	22, 163, 34	47, 463, 60	
Wa105	Excavation, Backhoe 0,61m3	m3	534, 50	1.4%	8.4%	87. 2%	52, 9%	47. 1%	40. 90	961, 89	1,836,33	19, 062, 84	11, 559. 83	10, 301, 22	21,861,05	
WOILE	Disposal of Surplus Soil (backhon loading)	m3	534, 5 0	8.1%	L4. 8%	77.1%	51,5%	48.5%	93, on	4, 048. 68	7, 333, 43	· 1	25, 586, 91	24, 121, 59	49, 708, 50	
	Miscellaneous	LS		15.0%	40.0%	45.0%	50,0%	50.0%		2, 549. 64	6, 799. 03	7, 648. 91	8, 498. 79	8, 498, 79	16, 997, 57	1.0%
	Total									150, 411. 94	773, 625. 17	792, 717. 64	833, 931, 80	882, 822, 95	1, 716, 754. 75	
	Components (%)									8.8%	45. (%	46. 2%	48, 6%	51.4%	100.0%	
L	Unit Rate	each								150, 696. 27	775, 087, 59	794, 216, 14	835, 508. 21	884, 491, 79	1, 720, 000, 00	

Miscellaneous covers the costs for maintenance works, minor works, etc.