

Table 8.5.1 (8/9) PAYMENT ITEMS AND THE COSTS FOR PACKAGE--1

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P1-Bq-305	H.3.7	Concrete, Type D including Formwork	m ³	16	102,540	43,070	317,440	1,640,640	689,120	5,079,040	7,408,800
R-P1-Bq-306	H.3.8	Deformed Reinforcing Bars for Item H.3.6 and H.3.7	kg	1,230	1,230	2,809	3,300	1,512,777	3,454,947	4,059,123	9,026,847
R-P1-Bq-307	H.3.9	Gabion Cylinder Dia. 500mm (Galvanized and PVC Coated)	m ³	38	533,280	3,820	171,320	20,264,640	145,160	6,510,160	26,919,960
R-P1-Bq-308	H.3.10	Joint Filler, 10mm thick (Elastic Material)	m ²	21	6,750	9,260	24,250	141,750	194,460	509,250	845,460
R-P1-Bq-309	H.3.11	Soil Filling	m ³	20	8,860	140	7,820	177,200	2,800	156,400	336,400
R-P1-Bq-310	H.4	Approach Steps, Type-G.A (7 places)									
R-P1-Bq-311	H.4.1	Structural Excavation	m ³	150	19,700	400	15,360	2,955,000	60,000	2,304,000	5,319,000
R-P1-Bq-312	H.4.2	Backfill with Selected Soil	m ³	40	12,720	770	20,480	508,800	30,800	819,200	1,358,800
R-P1-Bq-313	H.4.3	Gravel Bedding	m ³	34	6,920	1,360	32,990	235,280	46,240	1,121,660	1,403,180
R-P1-Bq-314	H.4.4	Concrete, Type C1 including Formwork	m ³	37	112,470	44,160	365,370	4,161,390	1,633,920	13,518,690	19,314,000
R-P1-Bq-315	H.4.5	Concrete, Type D including Formwork	m ³	18	102,540	43,070	317,440	1,845,720	775,260	5,713,920	8,334,900
R-P1-Bq-316	H.4.6	Deformed Reinforcing Bars for Item H.4.4 and H.4.5	kg	1,430	1,230	2,809	3,300	1,758,757	4,016,727	4,719,143	10,494,627
R-P1-Bq-317	H.4.7	Gabion Cylinder Dia. 500mm (Galvanized and Coated with PVC)	m ³	42	533,280	3,820	171,320	22,397,760	160,440	7,195,440	29,753,640
R-P1-Bq-318	H.4.8	Joint Filler, 10mm thick (Elastic Material)	m ²	71	6,750	9,260	24,250	479,250	657,460	1,721,750	2,858,460
R-P1-Bq-319	H.4.9	Soil Filling	m ³	20	8,860	140	7,820	177,200	2,800	156,400	336,400
R-P1-Bq-320	H.5	Approach Steps, Type-G.B (9 places)									
R-P1-Bq-321	H.5.1	Structural Excavation	m ³	400	19,700	400	15,360	7,880,000	160,000	6,144,000	14,184,000
R-P1-Bq-322	H.5.2	Backfill with Selected Soil	m ³	60	12,720	770	20,480	763,200	46,200	1,228,800	2,038,200
R-P1-Bq-323	H.5.3	Furnishing and Driving Log Pile, Dia. 150mm, L=2.0m	m	13	35,750	370	31,360	464,750	4,810	407,680	877,240
R-P1-Bq-324	H.5.4	Gravel Bedding	m ³	213	6,920	1,360	32,990	1,473,960	289,680	7,026,870	8,790,510
R-P1-Bq-325	H.5.5	Concrete, Type C1 including Formwork	m ³	40	112,470	44,160	365,370	4,498,800	1,766,400	14,614,800	20,880,000
R-P1-Bq-326	H.5.6	Concrete, Type D including Formwork	m ³	78	102,540	43,070	317,440	7,998,120	3,359,460	24,760,320	36,117,900
R-P1-Bq-327	H.5.7	Deformed Reinforcing Bars for Item H.5.5 and H.5.6	kg	4,550	1,230	2,809	3,300	5,596,045	12,780,495	15,015,455	33,391,995
R-P1-Bq-328	H.5.8	Gabion Cylinder Dia. 500mm (Galvanized and Coated with PVC)	m ³	160	533,280	3,820	171,320	85,324,800	611,200	27,411,200	113,347,200
R-P1-Bq-329	H.5.9	Soil Filling	m ³	50	8,860	140	7,820	443,000	7,000	391,000	841,000
R-P1-Bq-330	H.5.10	Joint Filler, 10mm thick (Elastic Material)	m ³	75	6,750	9,260	24,250	506,250	694,500	1,818,750	3,019,500
R-P1-Bq-331	H.5.11	Gabion Mattress t=500mm (Galvanized) on Riverbed	m ³	50	659,260	3,060	142,060	32,963,000	153,000	7,103,000	40,219,000
R-P1-Bq-332	H.5.12	Rubble Stone Filling	m ³	18	15,070	2,320	49,320	271,260	41,760	887,760	1,200,780
R-P1-Bq-333	H.6	Mooring Facilities									
R-P1-Bq-334	H.6.1	Structural Excavation	m ³	1,780	19,700	400	15,360	35,066,000	712,000	27,340,800	63,118,800
R-P1-Bq-335	H.6.2	Backfill with Selected Soil	m ³	40	12,720	770	20,480	508,800	30,800	819,200	1,358,800
R-P1-Bq-336	H.6.3	Furnishing and Driving PC Sheet Pile (K-500, t=220mm, w=500mm)	m	816	247,670	100	30,940	202,098,720	81,600	25,247,040	227,427,360
R-P1-Bq-337	H.6.4	Gravel Bedding	m ³	61	6,920	1,360	32,990	422,120	82,960	2,012,390	2,517,470
R-P1-Bq-338	H.6.5	Rubble Stone Bedding	m ³	201	13,760	2,790	65,520	2,765,760	560,790	13,169,520	16,496,070
R-P1-Bq-339	H.6.6	Stone Facing (Dia.250 to 400mm)	m ³	298	20,310	2,420	75,230	6,052,380	721,160	22,418,540	29,192,080
R-P1-Bq-340	H.6.7	Concrete, Type C1 including Formwork	m ³	26	112,470	44,160	365,370	2,924,220	1,148,160	9,499,620	13,572,000
R-P1-Bq-341	H.6.8	Concrete, Type D including Formwork	m ³	94	102,540	43,070	317,440	9,638,760	4,048,580	29,839,360	43,526,700
R-P1-Bq-342	H.6.9	Deformed Reinforcing Bars for Item H.6.7 and H.6.8	kg	2,150	1,230	2,809	3,300	2,644,285	6,039,135	7,095,215	15,778,635
R-P1-Bq-343	H.6.10	Joint Filler, 10mm thick (Elastic Material)	m ²	16	6,750	9,260	24,250	108,000	148,160	388,000	644,160
R-P1-Bq-344	H.6.11	Gabion Mattress t=500mm (Galvanized) on Riverbed	m ³	48	659,260	3,060	142,060	31,644,480	146,880	6,818,880	38,610,240
R-P1-Bq-345	H.6.12	Rubble Stone Filling	m ³	7	15,070	2,320	49,320	105,490	16,240	345,240	466,970
R-P1-Bq-346	H.6.13	Furnishing and Driving Log Pile, Dia. 150mm, L=2.0m	m	31	35,750	370	31,360	1,108,250	11,470	972,160	2,091,880
R-P1-Bq-347	H.7	Walkway along Riverbank (3.0m wide)									
R-P1-Bq-348	H.7.1	Structural Excavation	m ³	12,230	19,700	400	15,360	240,931,000	4,892,000	187,852,800	433,675,800
R-P1-Bq-349	H.7.2	Embankment	m ³	1,230	26,300	1,210	38,300	32,349,000	1,488,300	47,109,000	80,946,300

Table 8.5.1 (9/9) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-1

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P1-Bq-350	H.7.3	Gravel Pavement, 200mm thick	m ²	55,858	4,850	700	17,280	270,911,300	39,100,600	965,226,240	1,275,238,140
R-P1-Bq-351	H.7.4	Penetration Macadam Pavement 200mm thick	m ²	5,271	12,550	8,680	41,430	66,151,050	45,752,280	218,377,530	330,280,860
R-P1-Bq-352	H.7.5	Solid Sodding	m ²	76,840	1,230	0	6,070	94,513,200	0	466,418,800	560,932,000
R-P1-Bq-353	H.8	Approach Road for Maintenance (4.0m wide)									
R-P1-Bq-354	H.8.1	Structural Excavation	m ³	660	19,700	400	15,360	13,002,000	264,000	10,137,600	23,403,600
R-P1-Bq-355	H.8.2	Embankment	m ³	270	26,300	1,210	38,300	7,101,000	326,700	10,341,000	17,768,700
R-P1-Bq-356	H.8.3	Penetration Macadam Pavement 200mm thick	m ²	132	12,550	8,680	41,430	1,656,600	1,145,760	5,468,760	8,271,120
R-P1-Bq-357	H.8.4	Solid Sodding	m ²	220	1,230	0	6,070	270,600	0	1,335,400	1,606,000
R-P1-Bq-358	H.9	Tree Planting and Relocation of Existing Tree									
R-P1-Bq-359	H.9.1	Tree Planting (Angsana, Goldogan, Flamboyant)	nos.	630	27,662	150	137,241	17,426,912	94,500	86,461,941	103,983,353
R-P1-Bq-360	H.9.2	Relocation of Existing Trees (Rare species such as Trembesi, Flamboyant, Dadap and Pines)	nos.	32	50,950	380	252,670	1,630,400	12,160	8,085,440	9,728,000
R-P1-Bq-361	I	Waterlevel Gauging Station									
R-P1-Bq-362	I.1	Preparatory Work									
R-P1-Bq-363	I.1.1	Coffering and Dewatering	L.S.	1	10,994,700	313,500	6,794,300	10,994,700	313,500	6,794,300	18,102,500
R-P1-Bq-364	I.1.2	Clearing and Grubbing	m ²	330	4,040	90	2,850	1,333,200	29,700	940,500	2,303,400
R-P1-Bq-365	I.2	Well Type Water Level Gauging Station									
R-P1-Bq-366	I.2.1	Structural Excavation	m ³	2,050	19,700	400	15,360	40,385,000	820,000	31,488,000	72,693,000
R-P1-Bq-367	I.2.2	Backfill with Selected Soil	m ³	1,960	12,720	770	20,480	24,931,200	1,509,200	40,140,800	66,581,200
R-P1-Bq-368	I.2.3	Gravel Bedding	m ³	1	6,920	1,360	32,990	6,920	1,360	32,990	41,270
R-P1-Bq-369	I.2.4	Concrete, Type E including Formwork	m ³	2	78,580	37,610	211,460	157,160	75,220	422,920	655,300
R-P1-Bq-370	I.2.5	Concrete, Type C1 including Formwork	m ³	29	375,740	42,910	603,970	10,896,460	1,244,390	17,515,130	29,655,980
R-P1-Bq-371	I.2.6	Concrete Type D including Formwork	m ³	1	102,540	43,070	317,440	102,540	43,070	317,440	463,050
R-P1-Bq-372	I.2.7	Deformed Reinforcing Bars including Anchor bars for Gauging House	kg	1,660	1,402	2,810	3,418	2,327,154	4,664,268	5,673,216	12,664,638
R-P1-Bq-373	I.2.8	Furnishing and Placing Concrete Pipe, Dia.600mm, L=10.2m	m	14	60,990	9,830	68,180	853,860	137,620	954,520	1,946,000
R-P1-Bq-374	I.2.9	Furnishing and Placing Concrete Pipe, Dia.300mm, L=6.6m	m	8	60,990	9,830	68,180	487,920	78,640	545,440	1,112,000
R-P1-Bq-375	I.2.10	Gabion Mattress t=500mm (Galvanized)	m ³	43	664,580	3,120	145,960	28,576,940	134,160	6,276,280	34,987,380
R-P1-Bq-376	I.2.11	Rubble Stone Filling	m ³	1	15,070	2,320	49,320	15,070	2,320	49,320	66,710
R-P1-Bq-377	I.2.12	Steel Maintenance Steps (with Anti-corrosion Painting)	kg	280	1,352	411	4,991	378,560	115,080	1,397,480	1,891,120
R-P1-Bq-378	I.2.13	Steel Hand Rail (with Anti-corrosion Painting)	kg	80	2,049	481	4,231	163,920	38,480	338,480	540,880
R-P1-Bq-379	I.2.14	Steel Ladder (with Anti-corrosion Painting)	kg	90	2,049	481	4,231	184,410	43,290	380,790	608,490
R-P1-Bq-380	I.2.15	Gauging House (including Reinforced Concrete, Hollow Concrete Block, Plastering, Roofing, Steel Door)	L.S.	1	6,211,300	1,726,600	8,554,200	6,211,300	1,726,600	8,554,200	16,492,100
R-P1-Bq-381	I.2.16	Installation of Water Level Gage and Related Apparatus and Calibration	L.S.	1	1,108,800	22,700	1,003,500	1,108,800	22,700	1,003,500	2,135,000
R-P1-Bq-382	I.2.17	Setting Bench Mark	L.S.	1	2,700	400	13,000	2,700	400	13,000	16,100
R-P1-Bq-383	J	Supplying Maintenance Equipment									
R-P1-Bq-384	J.1										
R-P1-Bq-385	J.1.1	Backhoe, 0.35m3	nos.	1							
R-P1-Bq-386	J.1.2	Truck, 8t	nos.	1							
R-P1-Bq-387	J.1.3	Bulldozer, 11t	nos.	1							
R-P1-Bq-388	J.1.4	Patrol Car, 4WD	nos.	1							
R-P1-Bq-389	J.1.5	Outboard Motor Boat	nos.	1	2,092,010,900	0	91,482,400	2,092,010,900	0	91,482,400	2,183,493,300
		Total						52,578,500,088	3,343,019,063	47,599,862,522	103,521,381,672

Table 8.5.2 (1/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P2-Bq-1	A	General									
R-P2-Bq-2	A.1	Mobilization and Demobilization	L.S.	1	82761900	1534900	58684700	82,761,900	1,534,900	58,684,700	142,981,500
R-P2-Bq-3	A.2	Establishment									
R-P2-Bq-4	A.2.1	Temporary Construction Road and Bridge	L.S.	1	78,047,000	7,877,100	187,920,700	78,047,000	7,877,100	187,920,700	273,844,800
R-P2-Bq-5	A.2.2	Contractor's Site Office and Facilities	L.S.	1	235,558,900	61,204,000	743,609,500	235,558,900	61,204,000	743,609,500	1,040,372,400
R-P2-Bq-6	A.2.3	Engineer's Site Office and Facilities	L.S.	1	19,373,100	5,033,600	61,156,700	19,373,100	5,033,600	61,156,700	85,563,400
R-P2-Bq-7	A.3	Drawings	L.S.	1	12,218,200	600,000	48,630,600	12,218,200	600,000	48,630,600	61,448,800
R-P2-Bq-8	A.4	Surveying	L.S.	1	335,400	0	1,665,900	335,400	0	1,665,900	2,001,300
R-P2-Bq-9	A.5	Geological Investigation									
R-P2-Bq-10	A.5.1	Auger Boring	m	13	31,800	0	157,950	413,400	0	2,053,350	2,466,750
R-P2-Bq-11	A.5.2	Rotary Boring	m	105	63,600	0	315,900	6,678,000	0	33,169,500	39,847,500
R-P2-Bq-12	B	Preparatory and Temporary Works									
R-P2-Bq-13	B.1	Clearing and Grubbing	m ²	11,800	4,040	90	2,850	47,672,000	1,062,000	33,630,000	82,364,000
R-P2-Bq-14	B.2	Demolition and Removal of Existing Weir, Intake Structures and Others	m ³	5,481	168,998	45,332	294,554	926,278,038	248,464,692	1,614,450,474	2,789,193,204
R-P2-Bq-15	B.3	Temporary Works for Construction of Weir and Intake Structures (Including Coffering, Dewatering, Channel Diversion for Semarang River and Left Bank Irrigation Chanel, Channel Diversion for Drainage on Left Bank, Erath Retaining Wall and Others)	L.S.	1	593,174,700	6,716,400	348,133,800	593,174,700	6,716,400	348,133,800	948,024,900
R-P2-Bq-16	B.4	Coffering and Dewatering for Construction of Revetment in upstream and downstream channels	L.S.	1	1,617,711,600	4,107,900	957,283,800	1,617,711,600	4,107,900	957,283,800	2,579,103,300
R-P2-Bq-17	C.	Earth Work									
R-P2-Bq-18	C.1.	Channel Excavation									
R-P2-Bq-19	C.1.1	Excavation below Water Level (Low water level shown on the cross sections)	m ³	34,780	16,770	390	11,420	583,260,600	13,564,200	397,187,600	994,012,400
R-P2-Bq-20	C.1.2	Excavation above Water Level (Low water level shown on the cross sections)	m ³	7,770	15,410	370	10,610	119,735,700	2,874,900	82,439,700	205,050,300
R-P2-Bq-21	C.2	Weir and Intake Structures						0	0	0	
R-P2-Bq-22	C.2.1	Structural Excavation	m ³	24,210	19,980	390	15,680	483,715,800	9,441,900	379,612,800	872,770,500
R-P2-Bq-23	C.2.2	Soft Rock Excavation	m ³	550	43,530	910	28,170	23,941,500	500,500	15,493,500	39,935,500
R-P2-Bq-24	C.2.3	Earthfill on Riverbed with Selected Soil	m ³	3,070	16,590	1,720	37,510	50,931,300	5,280,400	115,155,700	171,367,400
R-P2-Bq-25	C.2.4	Backfill with Selected Soil	m ³	12,190	12,720	770	20,480	155,056,800	9,386,300	249,651,200	414,094,300
R-P2-Bq-26	C.2.5	Embankment for Dike	m ³	340	26,300	1,210	38,300	8,942,000	411,400	13,022,000	22,375,400
R-P2-Bq-27	C.2.6	Solid Sodding	m ²	650	1,230	0	6,070	799,500	0	3,945,500	4,745,000
R-P2-Bq-28	C.3	Approach Road and Bridge									
R-P2-Bq-29	C.3.1	Structural Excavation	m ³	220	19,700	400	15,360	4,334,000	88,000	3,379,200	7,801,200
R-P2-Bq-30	C.3.2	Backfill Gravel	m ³	30	18,580	4,060	88,210	557,400	121,800	2,646,300	3,325,500
R-P2-Bq-31	C.3.3	Backfill with Selected Soil	m ³	40	12,720	770	20,480	508,800	30,800	819,200	1,358,800
R-P2-Bq-32	C.3.4	Embankment for Road	m ³	220	26,300	1,210	38,300	5,786,000	266,200	8,426,000	14,478,200
R-P2-Bq-33	C.3.5	Gravel Bedding	m ³	20	6,920	1,360	32,990	138,400	27,200	659,800	825,400
R-P2-Bq-34	D.	Foundation Piles and Seepage Blocking Sheet Piles									
R-P2-Bq-35	D.1	Main Weir Structure (Gate Pier, Gate Floor Slab, Apron, Approach Wall and Riverbed Partition)									
R-P2-Bq-36	D.1.1	PC Pile for Test Piling, Dia. 600 mm Type-A	m	119	359,120	290	111,830	42,735,280	34,510	13,307,770	56,077,560
R-P2-Bq-37	D.1.2	Furnishing and Driving PC Piles, Dia. 600mm Type-A	m	4,964	320,690	260	72,950	1,591,905,160	1,290,640	362,123,800	1,955,319,600
R-P2-Bq-38	D.1.3	PC Pile for Test Piling, Dia. 450 mm Type-A	m	44	266,570	250	97,470	11,729,080	11,000	4,288,680	16,028,760
R-P2-Bq-39	D.1.4	Furnishing and Driving PC Piles, Dia. 450mm Type-A	m	2,225	236,550	230	59,900	526,323,750	511,750	133,277,500	660,113,000
R-P2-Bq-40	D.1.5	PC Pile for Test Piling, Dia. 400 mm Type-A	m	24	252,660	250	91,130	6,063,840	6,000	2,187,120	8,256,960
R-P2-Bq-41	D.1.6	Furnishing and Driving PC Piles, Dia. 400mm Type-A	m	737	223,910	230	54,130	165,021,670	169,510	39,893,810	205,084,990
R-P2-Bq-42	D.1.7	Concrete Filling in Pile Holes, Concrete Type D	m ³	22	85,590	44,240	236,890	1,882,980	973,280	5,211,580	8,067,840
R-P2-Bq-43	D.1.8	Cutting Pile Head	m ³	135	78,390	0	38,090	10,582,650	0	5,142,150	15,724,800

Table 8.5.2 (2/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	Total
R-P2-Bq-44	D.1.9	Furnishing and Driving Steel Sheet Pile, Type II	m	3,161	348,510	80	39,230	1,101,640,110	252,880	124,006,030	1,225,899,020
R-P2-Bq-45	D.1.10	Furnishing and Driving PC Sheet Pile (Prestressed Concrete K-500, t=220mm, w=500mm)	m	3,866	247,670	100	30,940	957,492,220	386,600	119,614,040	1,077,492,860
R-P2-Bq-46	D.2	Right and Left Bank Intakes Structures (Box Culvert, Breast Wall and Upstream Approach Wall)									
R-P2-Bq-47	D.2.1	PC Pile for Test Piling, Dia. 600 mm Type-A	m	36	359,120	290	111,830	12,928,320	10,440	4,025,880	16,964,640
R-P2-Bq-48	D.2.2	Furnishing and Driving PC Piles, Dia. 600mm Type-A	m	668	320,690	260	72,950	214,220,920	173,680	48,730,600	263,125,200
R-P2-Bq-49	D.2.3	PC Pile for Test Piling, Dia. 350 mm Type-A	m	29	211,310	240	85,590	6,127,990	6,960	2,482,110	8,617,060
R-P2-Bq-50	D.2.4	Furnishing and Driving PC Piles, Dia. 350mm Type-A	m	1,005	186,320	210	49,090	187,251,600	211,050	49,335,450	236,798,100
R-P2-Bq-51	D.2.5	Furnishing and Driving Steel Sheet Pile, Type II	m	1,249	348,510	80	39,230	435,288,990	99,920	48,998,270	484,387,180
R-P2-Bq-52	D.2.6	Furnishing and Driving Concrete Sheet Pile (Prestressed Concrete K-500, t=220mm, w=500mm)	m	133	247,670	100	30,940	32,940,110	13,300	4,115,020	37,068,430
R-P2-Bq-53	D.2.7	Cutting Pile Head	m ³	18	78,390	0	38,090	1,411,020	0	685,620	2,096,640
R-P2-Bq-54	D.3	Approach Bridge									
R-P2-Bq-55	D.3.1	PC Pile for Test Piling, Dia. 500 mm Type-A	m	16	362,490	580	151,790	5,799,840	9,280	2,428,640	8,237,760
R-P2-Bq-56	D.3.2	Furnishing and Driving PC Piles, Dia. 500mm Type-A	m	109	323,760	530	109,270	35,289,840	57,770	11,910,430	47,258,040
R-P2-Bq-57	D.3.3	Cutting Pile Head	m ³	3	78,390	0	38,090	235,170	0	114,270	349,440
R-P2-Bq-58	E.	Concrete Work									
R-P2-Bq-59	E.1	Main Weir Structure (Gate Pier, Gate Floor Slab, Apron, Approach Wall and Riverbed Partition)									
R-P2-Bq-60	E.1.1	Leveling Concrete, Type-E including Formwork	m ³	700	78,580	37,610	211,460	55,006,000	26,327,000	148,022,000	229,355,000
R-P2-Bq-61	E.1.2	Concrete Type B including Formwork for Gate Floor Slab, Pier Footing and Apron	m ³	6,290	113,590	44,330	258,210	714,481,100	278,835,700	1,624,140,900	2,617,457,700
R-P2-Bq-62	E.1.3	Deformed Reinforcing Bar for Item E.1.2	kg	197,490	1,402	2,810	3,418	276,861,231	554,907,402	674,941,824	1,506,710,457
R-P2-Bq-63	E.1.4	Concrete Type B including Scaffolding and Formwork for Gate Piers, Operation Decks and Approach Walls	m ³	3,290	203,440	44,560	364,130	669,317,600	146,602,400	1,197,987,700	2,013,907,700
R-P2-Bq-64	E.1.5	Deformed Reinforcing Bar for Item E.1.4	kg	161,420	1,402	2,810	3,418	226,294,698	453,557,916	551,668,992	1,231,521,606
R-P2-Bq-65	E.1.6	Concrete Type D including Formwork for Riverbed Partition	m ³	260	102,540	43,070	317,440	26,660,400	11,198,200	82,534,400	120,393,000
R-P2-Bq-66	E.1.7	Concrete Type D including Formwork for Steps in Gate Pier	m ³	10	102,540	43,070	317,440	1,025,400	430,700	3,174,400	4,630,500
R-P2-Bq-67	E.1.8	Concrete Type B including Formwork for Pile Head Treatment Work	m ³	120	112,930	47,610	273,930	13,551,600	5,713,200	32,871,600	52,136,400
R-P2-Bq-68	E.1.9	Deformed Reinforcing Bar for Item E.1.8	kg	24,540	1,230	2,809	3,300	30,181,746	68,930,406	80,984,454	180,096,606
R-P2-Bq-69	E.1.10	Concrete Type-C2 including Formwork for Blockout in Gate Pier and Floor Slab and Floor of Control House	m ³	150	110,850	46,340	355,990	16,627,500	6,951,000	53,398,500	76,977,000
R-P2-Bq-70	E.1.11	Steel Anchor Bars for Item E.1.10	kg	2,250	1,230	2,809	3,300	2,767,275	6,320,025	7,425,225	16,512,525
R-P2-Bq-71	E.1.12	Precast Concrete Blocks and their Installation (Cross-shape Block with Anchor Bars, 2t/piece)	nos.	1,424	209,366	94,760	351,428	298,136,472	134,938,810	500,433,187	933,508,469
R-P2-Bq-72	E.1.13	Joint Filler 10mm thick (Elastic Material)	m ²	1,237	6,750	9,260	24,250	8,349,750	11,454,620	29,997,250	49,801,620
R-P2-Bq-73	E.1.14	Water Stop, 300mm wide	m	675	98,951	0	9,367	66,791,925	0	6,322,725	73,114,650
R-P2-Bq-74	E.1.15	Dowel Bar, Dia.19mm 1.0m long (Round Bar and PVC Pipe)	kg	5,590	3,370	5,710	11,010	18,838,300	31,918,900	61,545,900	112,303,100
R-P2-Bq-75	E.1.16	Steel Anchor Bars for Maintenance Step and Control House Erection	kg	390	1,230	2,809	3,300	479,661	1,095,471	1,287,039	2,862,171
R-P2-Bq-76	E.2	Right and Left Bank Intake Structures (Box Culvert, Breast Wall, Approach Channel and Upstream Approach Wall)									
R-P2-Bq-77	E.2.1	Leveling Concrete, Type-E	m ³	88	78,580	37,610	211,460	6,915,040	3,309,680	18,608,480	28,833,200
R-P2-Bq-78	E.2.2	Concrete Type B including Scaffolding and Form	m ³	1,156	203,440	44,560	364,130	235,176,640	51,511,360	420,934,280	707,622,280
R-P2-Bq-79	E.2.3	Deformed Reinforcing Bar for Item E.2.2	kg	78,290	1,402	2,810	3,418	109,754,751	219,979,242	267,563,904	597,297,897
R-P2-Bq-80	E.2.4	Concrete Type B including Formwork for Pile Head Treatment Work	m ³	12	112,930	47,610	273,930	1,355,160	571,320	3,287,160	5,213,640
R-P2-Bq-81	E.2.5	Deformed Reinforcing Bar for Item E.2.4	kg	4,190	1,230	2,809	3,300	5,153,281	11,769,291	13,827,419	30,749,991
R-P2-Bq-82	E.2.6	Concrete Type-C2 for Blockout in Gate Pier	m ³	11	110,850	46,340	355,990	1,219,350	509,740	3,915,890	5,644,980
R-P2-Bq-83	E.2.7	Anchor Bars for Item E.2.6	kg	420	1,230	2,809	3,300	516,558	1,179,738	1,386,042	3,082,338

Table 8.5.2 (3/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	Total
R-P2-Bq-84	E.2.8	Concrete Type D for Concrete Lining on Channel Bed and Leaning Wall	m ³	14	102,540	43,070	317,440	1,435,560	602,980	4,444,160	6,482,700
R-P2-Bq-85	E.2.9	Joint Filler, 10mm thick (Elastic Material)	m ²	63	6,750	9,260	24,250	425,250	583,380	1,527,750	2,536,380
R-P2-Bq-86	E.2.10	Water Stop, 300mm wide	m	29	98,951	0	9,367	2,869,579	0	271,643	3,141,222
R-P2-Bq-87	E.3	Maintenance Bridges (21.0m long PC Girder and 8.35m long RC Girder)									
R-P2-Bq-88	E.3.1	Precast Prestressed Concrete Beam including Reinforcing Bars, Tension Reinforcing and Erection (Concrete Type A2, PC Cable)	nos.	12	14,565,200	4,574,300	26,538,400	174,782,400	54,891,600	318,460,800	548,134,800
R-P2-Bq-89	E.3.2	Precast Prestressed Concrete Diaphragm including Reinforcing Bars, Tensioning and Erection (Concrete Type A2, PC Cable)	nos.	12	167,600	56,800	337,400	2,011,200	681,600	4,048,800	6,741,600
R-P2-Bq-90	E.3.3	Concrete Type B including Scaffolding and Form for Slab and Beam for RC Girder	m ³	190	486,460	45,220	730,930	92,427,400	8,591,800	138,876,700	239,895,900
R-P2-Bq-91	E.3.4	Deformed Reinforcing Bars for Items E.3.3	kg	31,710	1,402	2,810	3,418	44,454,249	89,098,758	108,372,096	241,925,103
R-P2-Bq-92	E.3.5	Elastomeric Bearing Pad (350x280x73)	nos.	24	511,000	602,000	1,011,500	12,264,000	14,448,000	24,276,000	50,988,000
R-P2-Bq-93	E.3.6	Elastomeric Bearing Pad (310x210x24)	nos.	24	320,200	152,000	513,800	7,684,800	3,648,000	12,331,200	23,664,000
R-P2-Bq-94	E.3.7	Rubber Sheet (200x200x30)	nos.	24	103,540	231,000	283,280	2,484,960	5,544,000	6,798,720	14,827,680
R-P2-Bq-95	E.3.8	Drain Pipe, PVC Pipe, Dia.100	m	322	13,110	17,250	47,850	4,221,420	5,554,500	15,407,700	25,183,620
R-P2-Bq-96	E.4	Approach Bridges and Walls (13.0 and 9.0 m long RC Girders, Abutments and Earth Retaining Walls)									
R-P2-Bq-97	E.4.1	Leveling Concrete, Type E including Formwork	m ³	16	78,580	37,610	211,460	1,257,280	601,760	3,383,360	5,242,400
R-P2-Bq-98	E.4.2	Concrete Type B including Scaffolding and Form for Abutments	m ³	128	203,440	44,560	364,130	26,040,320	5,703,680	46,608,640	78,352,640
R-P2-Bq-99	E.4.3	Deformed Reinforcing Bars for Items E.4.2	kg	8,480	1,402	2,810	3,418	11,888,112	23,827,104	28,981,248	64,696,464
R-P2-Bq-100	E.4.4	Beam	m ³	78	343,080	44,970	673,520	26,760,240	3,507,660	52,534,560	82,802,460
R-P2-Bq-101	E.4.5	Deformed Reinforcing Bars for Items E.4.4	kg	15,720	1,402	2,810	3,418	22,037,868	44,170,056	53,724,672	119,932,596
R-P2-Bq-102	E.4.6	Concrete Type B including Form for Retaining Wall	m ³	62	140,390	44,330	390,380	8,704,180	2,748,460	24,203,560	35,656,200
R-P2-Bq-103	E.4.7	Deformed Reinforcing Bars for Items E.4.6	kg	4,990	1,402	2,810	3,418	6,995,481	14,020,902	17,053,824	38,070,207
R-P2-Bq-104	E.4.8	Concrete Type D including Form Work	m ³	4	268,520	41,210	1,025,360	1,074,080	164,840	4,101,440	5,340,360
R-P2-Bq-105	E.4.9	Elastomeric Bearing Pad (310x210x24)	nos.	24	320,200	152,000	513,800	7,684,800	3,648,000	12,331,200	23,664,000
R-P2-Bq-106	E.4.10	Drain Pipe, PVC Pipe, Dia.100	m	105	3,920	4,240	15,210	411,600	445,200	1,597,050	2,453,850
R-P2-Bq-107	E.4.11	Joint Filler, 10mm thick (Elastic Material)	m ²	8	6,750	9,260	24,250	54,000	74,080	194,000	322,080
R-P2-Bq-108	E.4.12	Weep Hole, Dia.50mm including Filter Cloth	nos.	24	3,147	909	14,500	75,524	21,818	348,000	445,343
R-P2-Bq-109	E.5	U-shape Concrete Channel on Left Bank (to be connected with the existing concrete channel)									
R-P2-Bq-110	E.5.1	Chipping of Existing Concrete	m ²	6	3,690	0	18,310	22,140	0	109,860	132,000
R-P2-Bq-111	E.5.2	Leveling Concrete, Type-E including Formwork	m ³	9	78,580	37,610	211,460	707,220	338,490	1,903,140	2,948,850
R-P2-Bq-112	E.5.3	Concrete Type-C1 including Formwork and Scaffolding	m ³	62	375,740	42,910	603,970	23,295,880	2,660,420	37,446,140	63,402,440
R-P2-Bq-113	E.5.4	Deformed Reinforcing Bars for E.5.3	kg	2,840	1,402	2,810	3,418	3,981,396	7,979,832	9,705,984	21,667,212
R-P2-Bq-114	E.5.5	Water Stop, 200mm wide	m	23	98,951	0	9,367	2,275,873	0	215,441	2,491,314
R-P2-Bq-115	E.5.6	Joint Filler, 10mm thick (Elastic Material)	m ²	3	6,750	9,260	24,250	20,250	27,780	72,750	120,780
R-P2-Bq-116	F.	Stone and Masonry									
R-P2-Bq-117	F.1	Wet Masonry									
R-P2-Bq-118	F.1.1	Wet Stone Masonry on Side Slope of 1:2 and 1:1.5	m ³	1,960	46,070	28,800	200,020	90,297,200	56,448,000	392,039,200	538,784,400
R-P2-Bq-119	F.1.2	Wet Stone Masonry for Earth Retaining Type Wall in Downstream Channel	m ³	950	46,070	28,800	200,020	43,766,500	27,360,000	190,019,000	261,145,500
R-P2-Bq-120	F.1.3	Wet Stone Masonry for Leaning Wall for Connecting Channel of Semarang River and Left Irrigation Channel	m ³	360	46,070	28,800	200,020	16,585,200	10,368,000	72,007,200	98,960,400
R-P2-Bq-121	F.1.4	Weep Hole, Dia.50mm including Filter Cloth	nos.	340	3,147	909	14,500	1,069,930	309,091	4,930,000	6,309,021
R-P2-Bq-122	F.1.5	Cement Mortar Pointing on Riverside Surface of Wet Stone Masonry	m ²	7,530	2,000	1,010	8,900	15,060,000	7,605,300	67,017,000	89,682,300
R-P2-Bq-123	F.1.6	Furnishing and Driving Log Pile, Dia. 150mm, L=2.0m	m	95	35,750	370	31,360	3,396,250	35,150	2,979,200	6,410,600
R-P2-Bq-124	F.2	Stone									
R-P2-Bq-125	F.2.1	Gravel Bedding	m ³	2,567	6,920	1,360	32,990	17,763,640	3,491,120	84,685,330	105,940,090

Table 8.5.2 (4/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	Total
R-P2-Bq-126	F.2.2	Backfill Gravel	m ³	196	18,580	4,060	88,210	3,641,680	795,760	17,289,160	21,726,600
R-P2-Bq-127	F.2.3	Rubble Stone Filling	m ³	1,341	15,070	2,320	49,320	20,208,870	3,111,120	66,138,120	89,458,110
R-P2-Bq-128	F.2.4	Gabion Mattress, 3.0m x 1.5m x 0.5m (Galvanized and PVC Coated)	m ³	2,162	307,880	3,060	110,910	665,636,560	6,615,720	239,787,420	912,039,700
R-P2-Bq-129	F.2.5	Gabion Mattress, 2.0m x 1.0m x 0.3m (Galvanized and PVC Coated)	m ³	25	469,200	3,080	127,230	11,730,000	77,000	3,180,750	14,987,750
R-P2-Bq-130	F.2.6	Geotextile Filter Cloth	m ²	3,218	14,290	30	3,800	45,985,220	96,540	12,228,400	58,310,160
R-P2-Bq-131	F.2.7	Palm Fiber	m ²	1,847	8,440	1,190	25,890	15,588,680	2,197,930	47,818,830	65,605,440
R-P2-Bq-132	F.2.8	Gabion Cylinder Dia.500mm (Galvanized and Coated with PVC)	m ³	15	533,280	3,820	171,320	7,999,200	57,300	2,569,800	10,626,300
R-P2-Bq-133	F.2.9	Soil Filling	m ³	10	8,860	140	7,820	88,600	1,400	78,200	168,200
R-P2-Bq-134	G.	Metal Work and Mechanical Work									
R-P2-Bq-135	G.1	Gate									
R-P2-Bq-136	G.1.1	Furnishing and Installing Shell Type Steel Roller Gate, H=3.7m x L=18.5m x 3 gates (Flood Discharge Gate)	L.S.	1	6,413,808,000	110,039,300	1,642,433,400	6,413,808,000	110,039,300	1,642,433,400	8,166,280,700
R-P2-Bq-137	G.1.2	Furnishing and Installing Hoist, and Operating and Electrical Equipment for Flood Discharge Gate (3 gates)	L.S.	1	9,799,924,200	59,357,900	1,394,280,300	9,799,924,200	59,357,900	1,394,280,300	11,253,562,400
R-P2-Bq-138	G.1.3	Furnishing and Installing Girder Type Steel Roller Gate, H=4.35m x L=5.5m x 2 gates (Sediment Flush Gate)	L.S.	1	822,418,900	19,491,400	424,400,100	822,418,900	19,491,400	424,400,100	1,266,310,400
R-P2-Bq-139	G.1.4	Furnishing and Installing Hoist, and Operating and Electrical Equipment for Sediment Flush Gate (2 gates)	L.S.	1	2,039,501,900	31,869,300	380,086,000	2,039,501,900	31,869,300	380,086,000	2,451,457,200
R-P2-Bq-140	G.1.5	Furnishing and Installing Steel Slide Gate, H=2.0m x W=2.25m x 4 gates (Right Intake Gate)	L.S.	1	335,961,500	7,822,300	121,955,400	335,961,500	7,822,300	121,955,400	465,739,200
R-P2-Bq-141	G.1.6	Furnishing and Installing Hoist, and Operating and Electrical Equipment for Right Intake Gate (4 gates)	L.S.	1	972,292,800	4,504,200	125,826,100	972,292,800	4,504,200	125,826,100	1,102,623,100
R-P2-Bq-142	G.1.7	Furnishing and Installing Steel Slide Gate, H=2.0m x W=2.0m x 2 gates (Left Intake Gate)	L.S.	1	141,016,200	3,697,800	45,228,700	141,016,200	3,697,800	45,228,700	189,942,700
R-P2-Bq-143	G.1.8	Furnishing and Installing Hoist, and Operating and Electrical Equipment for Left Intake Gate (2 gates)	L.S.	1	480,033,700	2,205,500	59,337,900	480,033,700	2,205,500	59,337,900	541,577,100
R-P2-Bq-144	G.1.9	Furnishing Steel Temporary Gate(including Gate Panels and Posts)	L.S.	1	872,225,400	20,786,200	440,474,800	872,225,400	20,786,200	440,474,800	1,333,486,400
R-P2-Bq-145	G.1.10	Furnishing and Installing Steel Guide Frame for Flood Discharge	L.S.	1	12,576,218,000	23,505,400	851,562,000	12,576,218,000	23,505,400	851,562,000	13,451,285,400
R-P2-Bq-146	G.1.11	Furnishing and Installing Steel Guide Frame for Sediment Flush	L.S.	1	494,950,900	13,786,700	286,807,700	494,950,900	13,786,700	286,807,700	795,545,300
R-P2-Bq-147	G.1.12	Furnishing and Installing Steel Guide Frame for Right Intake Gate	L.S.	1	277,661,500	5,725,000	90,668,400	277,661,500	5,725,000	90,668,400	374,054,900
R-P2-Bq-148	G.1.13	Furnishing and Installing Steel Guide Frame for Left Intake Gate	L.S.	1	141,347,800	2,825,900	40,573,800	141,347,800	2,825,900	40,573,800	184,747,500
R-P2-Bq-149	G.1.14	Furnishing and Installing Steel Guide Frame for Temporary Gate (in the Gate Piers, Floor Slabs and Bridge Super-structure)	ton	90	3,887,295	35,583	3,091,718	349,856,542	3,202,461	278,254,628	631,313,631
R-P2-Bq-150	G.2	Weir and Intake Structures									
R-P2-Bq-151	G.2.1	Steel Hand Rails (with Anti-corrosion Painting)	kg	340	2,049	481	4,231	696,660	163,540	1,438,540	2,298,740
R-P2-Bq-152	G.2.2	Steel Spiral Stairs (with Anti-corrosion Painting)	kg	4,750	4,608	531	5,988	21,888,000	2,522,250	28,443,000	52,853,250
R-P2-Bq-153	G.2.3	Steel Fence (with Anti-corrosion Painting)	m	160	100,400	23,550	207,300	16,064,000	3,768,000	33,168,000	53,000,000
R-P2-Bq-154	G.3	Road and Bridge									
R-P2-Bq-155	G.3.1	Furnishing and Installing Matal Hand Rails in Maintenance and Approach Bridges	m	220	112,600	51,517	237,550	24,772,000	11,333,667	52,261,000	88,366,667
R-P2-Bq-156	G.3.2	Expansion Joint, Steel Profile (75mm x 75mm x 6mm)	m	67	11,571	657	10,657	775,286	44,029	714,029	1,533,343
R-P2-Bq-157	G.3.3	Car Barrier	L.S.	2	871,670	34,080	1,164,280	1,743,340	68,160	2,328,560	4,140,060
R-P2-Bq-158	H.	Road Pavement									
R-P2-Bq-159	H.1	Pavement on Bridge									
R-P2-Bq-160	H.1.1	Bituminous Prime Coat	ltr	322	5,143	7,277	18,265	1,655,917	2,343,033	5,881,233	9,880,184
R-P2-Bq-161	H.1.2	Bituminous Surface Course, 50mm thick	ton	105	95,771	36,739	165,326	10,055,955	3,857,595	17,359,230	31,272,780
R-P2-Bq-162	H.2	Pavement on Approach Road									
R-P2-Bq-163	H.2.1	Sub-Base Course (Class C)	m ³	90	35,010	4,370	97,420	3,150,900	393,300	8,767,800	12,312,000
R-P2-Bq-164	H.2.2	Base Course (Class A)	m ³	70	35,670	4,370	97,910	2,496,900	305,900	6,853,700	9,656,500
R-P2-Bq-165	H.2.3	Asphalt Treatment Base (A.T.B.) ont the Bridge	ton	46	86,416	34,062	153,876	3,975,145	1,566,829	7,078,313	12,620,287
R-P2-Bq-166	H.2.4	Bituminous Prime Coat	ltr	559	5,143	7,277	18,265	2,874,713	4,067,564	10,209,967	17,152,244

Table 8.5.2 (5/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P2-Bq-167	H.2.5	Bituminous Surface Course, 50mm thick	ton	48	10,740	4,120	18,540	515,520	197,760	889,920	1,603,200
R-P2-Bq-168	I	Miscellaneous Work									
R-P2-Bq-169	I.1										
R-P2-Bq-170	I.1.1	Furnishing and Installing Water Level Gage (Pressure Gauge Type) consisting of Pole Type Protective Pipe, sensor, cable and Converter)	set	1	244,974,400	175,500	15,533,300	244,974,400	175,500	15,533,300	260,683,200
R-P2-Bq-171	I.1.2	Furnishing and Installing Water Level Gauging Staff	set	2	13,824,200	235,100	36,643,300	27,648,400	470,200	73,286,600	101,405,200
R-P2-Bq-172	I.1.3	Steel Ladder (with Anti-corrosion Painting)	L.S.	1	2,008,000	471,000	4,146,000	2,008,000	471,000	4,146,000	6,625,000
R-P2-Bq-173	I.1.4	Information Board	L.S.	1	137,800	0	684,400	137,800	0	684,400	822,200
R-P2-Bq-174	I.1.5	Name Plate for Weir and Bridge	L.S.	1	111,200	46,200	506,100	111,200	46,200	506,100	663,500
R-P2-Bq-175	I.1.6	Storage Facility for Temporary Gate	L.S.	1	3,614,900	756,000	10,651,700	3,614,900	756,000	10,651,700	15,022,600
R-P2-Bq-176	I.1.7	Tree Planting (Angsana, Glodogan, Flamboyan)	nos.	11	27,662	150	137,241	304,279	1,650	1,509,653	1,815,582
R-P2-Bq-177	I.1.8	Furnishing and Installing Rain Gage Equipment, Tipping Bucket Type (consisting of Rainfall collector, Tipping Bucket, A/D Converter, Concrete Base, Cables and Automatic Rainfall Recorder)	L.S.	1	17,111,700	0	6,251,600	17,111,700	0	6,251,600	23,363,300
R-P2-Bq-178	I.1.9	Furnishing and Installing Siren	L.S.	1	20,622,200	15,500	6,237,000	20,622,200	15,500	6,237,000	26,874,700
R-P2-Bq-179	J	Electrical Work									
R-P2-Bq-180	J.1										
R-P2-Bq-181	J.1.1	Furnishing and Installing Remote Control Panel for Gate Operation at Operation/Maintenance Office	set	1	618,963,800	1,911,000	65,157,700	618,963,800	1,911,000	65,157,700	686,032,500
R-P2-Bq-182	J.1.2	Cable Laying between Operation/Maintenance Office and Each Control House	L.S.	1	566,461,900	244,598,700	233,943,500	566,461,900	244,598,700	233,943,500	1,045,004,100
R-P2-Bq-183	J.1.3	Furnishing and Installing Emergency Generator System (Diesel Engine Generator Set 250kVA with Radiator cooling system, Silencer, Exhaust system and Fuel System)	set	1	67,726,550	147,000	9,325,240	67,726,550	147,000	9,325,240	77,198,790
R-P2-Bq-184	J.1.4	Furnishing and Installing Air Ventilation	set	1	58,076,700	417,800	16,437,900	58,076,700	417,800	16,437,900	74,932,400
R-P2-Bq-185	J.1.5	Furnishing and Installing Switching Panel	set	1	25,485,260	163,070	5,716,500	25,485,260	163,070	5,716,500	31,364,830
R-P2-Bq-186	J.1.6	Furnishing and Installing Lighting Equipment for Weir and Maintenance Bridge (consisting of Mercury Vapor Lamp 400W)	L.S.	1	7,175,600	405,200	34,875,400	7,175,600	405,200	34,875,400	42,456,200
R-P2-Bq-187	J.1.7	Furnishing and Installing Lighting Protection for Control Houses, 4 sets	L.S.	1	3,057,900	0	15,188,500	3,057,900	0	15,188,500	18,246,400
R-P2-Bq-188	K	Simongan Weir Management Complex									
R-P2-Bq-189	K.1	Entrance Bridge									
R-P2-Bq-190	K.1.1	Demolition and Removal of Existing Concrete and Wet Masonry Structures	m ³	190	71,146	1,872	56,788	13,517,740	355,680	10,789,720	24,663,140
R-P2-Bq-191	K.1.2	Structural Excavation	m ³	30	19,700	400	15,360	591,000	12,000	460,800	1,063,800
R-P2-Bq-192	K.1.3	Backfill with Selected Soil	m ³	12	12,720	770	20,480	152,640	9,240	245,760	407,640
R-P2-Bq-193	K.1.4	Leveling Concrete, Type-E including Formwork	m ³	2	78,580	37,610	211,460	157,160	75,220	422,920	655,300
R-P2-Bq-194	K.1.5	Concrete Type-C1, including Scaffolding and Formwork	m ³	52	375,740	42,910	603,970	19,538,480	2,231,320	31,406,440	53,176,240
R-P2-Bq-195	K.1.6	Deformed Reinforcing Bars for Item K.1.5	kg	3,630	1,402	2,810	3,418	5,088,897	10,199,574	12,405,888	27,694,359
R-P2-Bq-196	K.1.7	Wet Stone Masonry for Channel Revetment and Wall	m ³	30	46,070	28,800	200,020	1,382,100	864,000	6,000,600	8,246,700
R-P2-Bq-197	K.1.8	Gravel Bedding	m ³	17	6,920	1,360	32,990	117,640	23,120	560,830	701,590
R-P2-Bq-198	K.1.9	Weep Hole, Dia.50mm including Filter Cloth	nos.	8	3,147	909	14,500	25,175	7,273	116,000	148,448
R-P2-Bq-199	K.1.10	Cement Mortar Pointing on Surface of Wet Stone Masonry	m ²	58	2,000	1,010	8,900	116,000	58,580	516,200	690,780
R-P2-Bq-200	K.1.11	Joint Filler 10mm thick (Elastic Material)	m ²	12	6,750	9,260	24,250	81,000	111,120	291,000	483,120
R-P2-Bq-201	K.1.12	Asphalt Treatment Base (A.T.B.)	ton	19	86,416	34,062	153,876	1,641,908	647,169	2,923,651	5,212,727
R-P2-Bq-202	K.1.13	Bituminous Prime Coat	ltr	72	5,143	7,277	18,265	370,267	523,908	1,315,058	2,209,234
R-P2-Bq-203	K.1.14	Base Course (Class A)	m ³	7	35,670	4,370	97,910	249,690	30,590	685,370	965,650
R-P2-Bq-204	K.1.15	Sub-Base Course (Class C)	m ³	10	35,010	4,370	97,420	350,100	43,700	974,200	1,368,000
R-P2-Bq-205	K.2	Demolition and Removal of Existing Storage Houses	L.S.	1	3,881,800	76,600	2,620,200	3,881,800	76,600	2,620,200	6,578,600
R-P2-Bq-206	K.3	Building									

Table 8.5.2 (6/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	Total
R-P2-Bq-207	K.3.1	Operation/Management Office (including excavation, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	119,228,800	20,515,200	291,796,600	119,228,800	20,515,200	291,796,600	431,540,600
R-P2-Bq-208	K.3.2	Storage House-1 (including excavation, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	24,154,800	11,863,900	108,089,000	24,154,800	11,863,900	108,089,000	144,107,700
R-P2-Bq-209	K.3.3	Storage House-2 (including excavation, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	62,004,900	28,842,700	279,061,000	62,004,900	28,842,700	279,061,000	369,908,600
R-P2-Bq-210	K.3.4	Electrical Building (including excavation, demolition existing wall, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	43,051,900	6,464,700	90,978,900	43,051,900	6,464,700	90,978,900	140,495,500
R-P2-Bq-211	K.3.5	Guard House (including excavation, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	16,758,300	4,776,400	50,224,900	16,758,300	4,776,400	50,224,900	71,759,600
R-P2-Bq-212	K.3.6	External Works (including excavation, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	59,646,900	12,532,500	214,737,600	59,646,900	12,532,500	214,737,600	286,917,000
R-P2-Bq-213	K.3.7	Gate Control House (4 houses including excavation, filling, grading, foundation, reinforced concrete, roofing, concrete block, brick, plastering, door&Windows, glazing, miscellaneous metal, interior finishing, tile, sanitary, electrical and painting works)	L.S.	1	164,607,800	33,803,100	276,245,900	164,607,800	33,803,100	276,245,900	474,656,800
R-P2-Bq-214	K.3.8	Intake Gate Shed on Right Bank (including steel colum and beam, roofing, steel handrail, electrical works and painting works)	L.S.	1	24,533,800	1,955,600	25,880,900	24,533,800	1,955,600	25,880,900	52,370,300
R-P2-Bq-215	K.3.9	Intake Gate Shed on Left Bank (including steel colum and beam, roofing, steel handrail, electrical works and painting works)	L.S.	1	15,514,800	1,084,600	15,995,500	15,514,800	1,084,600	15,995,500	32,594,900
R-P2-Bq-216	L	Preservation of Existing Simongan Weir									
R-P2-Bq-217	L.1	Cutting and Dismantling Part of the Existing Weir and Transporting									
R-P2-Bq-218	L.1.1	Removal of Steel Gates, Hoists, Guide Frames, Columns and Roofs of Operation Shed, etc. and Transporting them to the Preservation	L.S.	1	17,199,200	113,300	15,778,100	17,199,200	113,300	15,778,100	33,090,600
R-P2-Bq-219	L.1.2	Cutting and Dismantling Part of the Existing Wet Masonry Weir into Blocks and Transporting them to the Presevation Site	m ³	457	18,013,687	98,843	2,853,614	8,232,254,959	45,171,251	1,304,101,598	9,581,527,808
R-P2-Bq-220	L.2	Assembling Work at Preservation Site									
R-P2-Bq-221	L.2.1	Structural Excavation	m ³	164	19,700	400	15,360	3,230,800	65,600	2,519,040	5,815,440
R-P2-Bq-222	L.2.2	Earth Fill	m ³	368	10,560	220	7,650	3,886,080	80,960	2,815,200	6,782,240
R-P2-Bq-223	L.2.3	Backfill with Selected Soil	m ³	36	12,720	770	20,480	457,920	27,720	737,280	1,222,920
R-P2-Bq-224	L.2.4	Gravel Bedding	m ³	38	6,920	1,360	32,990	262,960	51,680	1,253,620	1,568,260
R-P2-Bq-225	L.2.5	Rubble Stone Bedding	m ³	5	13,760	2,790	65,520	68,800	13,950	327,600	410,350
R-P2-Bq-226	L.2.6	Backfill with Gravel	m ³	37	18,580	4,060	88,210	687,460	150,220	3,263,770	4,101,450
R-P2-Bq-227	L.2.7	Leveling Concrete, Type-E including Formwork	m ³	49	78,580	37,610	211,460	3,850,420	1,842,890	10,361,540	16,054,850
R-P2-Bq-228	L.2.8	Concrete, Type C1 including Scaffolding and Formwork	m ³	31	375,740	42,910	603,970	11,647,940	1,330,210	18,723,070	31,701,220
R-P2-Bq-229	L.2.9	Concrete Type D including Form Work	m ³	73	268,520	41,210	1,025,360	19,601,960	3,008,330	74,851,280	97,461,570
R-P2-Bq-230	L.2.10	Deformed Reinforcing Bars for Item L.2.8	kg	2,000	1,402	2,810	3,418	2,803,800	5,619,600	6,835,200	15,258,600
R-P2-Bq-231	L.2.11	Wet Stone Masonry	m ³	160	46,070	28,800	200,020	7,371,200	4,608,000	32,003,200	43,982,400
R-P2-Bq-232	L.2.12	Cement Mortar Pointing on Riverside Surface of Masonry	m ²	74	2,000	1,010	8,900	148,000	74,740	658,600	881,340
R-P2-Bq-233	L.2.13	Joint Filler 10mm thick (Elastic Material)	m ²	7	6,750	9,260	24,250	47,250	64,820	169,750	281,820
R-P2-Bq-234	L.2.14	Steel Fence (with Anti-corrosion Painting), H=110cm	m	57	95,317	23,533	182,017	5,433,050	1,341,400	10,374,950	17,149,400

Table 8.5.2 (7/7) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-2

ID No.	Item No.	BQ Item	Unit	Quantity	Unit Cost (rupiah)			Initial Cost (million rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P2-Bq-235	L.2.15	Assembling Blocks into Original Shape with Scaffolding	m ³	818	29,050	90	25,190	23,762,900	73,620	20,605,420	44,441,940
R-P2-Bq-236	L.2.16	Jointing Blocks with Non-Shrinkage Mortar	m ³	4	650	290	2,940	2,600	1,160	11,760	15,520
R-P2-Bq-237	L.2.17	Drilling, Hole (Dia.45mm) in the Block, Anchoring with Steel Deformed Bar (D16) and Filling the Hole with Non-shrinkage	m	735	239,360	24,551	95,698	175,929,600	18,044,985	70,338,030	264,312,615
R-P2-Bq-238	L.2.18	Setting Steel Gates, Hoists, Guide Frames, Columns and Roofs of Operation Hut, etc.	L.S.	1	6,522,800	733,400	7,748,800	6,522,800	733,400	7,748,800	15,005,000
		Total						61,200,722,172	3,631,534,450	24,128,019,972	88,960,276,593

Table 8.5.3 (1/5) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-3

ID No.				Quantity	Unit Price (Rupiah)			Cost (million Rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P3-Bq-1	1	Box Culvert BH 5 Km. 00+816									
R-P3-Bq-2	1.1	General									
R-P3-Bq-3	1.1.1	Mobilization and demobilization	L.S.	1	3,499,300	51,900	3,828,900	3,499,300	51,900	3,828,900	7,380,100
R-P3-Bq-4	1.1.2	Establishment									
R-P3-Bq-5	1.1.2.1	Install and removal of temporary Site Office	m2	18	372,560	96,800	1,176,090	6,706,080	1,742,400	21,169,620	29,618,100
R-P3-Bq-6	1.1.2.2	Install and removal of temporary Ware House	m2	18	298,050	77,440	940,880	5,364,900	1,393,920	16,935,840	23,694,660
R-P3-Bq-7	1.1.3	Site Clearing and Measurement of the existing condition	L.S.	1	0	0	1,889,300	0	0	1,889,300	1,889,300
R-P3-Bq-8	1.1.4	Furnishing and Installing Communication equipment	unit	1	3,636,000	0	159,000	3,636,000	0	159,000	3,795,000
R-P3-Bq-9	1.2	Temporary Works									
R-P3-Bq-10	1.2.1	Railway sign, structure for telephone cable, signal cable, etc.	L.S.	1	4,206,600	239,800	20,654,300	4,206,600	239,800	20,654,300	25,100,700
R-P3-Bq-11	1.2.2	Demolition and removal of existing structure and others	L.S.	1	1,270,200	22,500	1,052,000	1,270,200	22,500	1,052,000	2,344,700
R-P3-Bq-12	1.2.3	Temporary Works for construction of box culvert (include dewatering, retaining wall, removal ballast, temporary bridge and other steel and/or wooden supporters, and others)	L.S.	1	58,639,200	273,200	152,587,300	58,639,200	273,200	152,587,300	211,499,700
R-P3-Bq-13	1.3	Excavation and backfill									
R-P3-Bq-14	1.3.1	Structural Excavation	m3	60	3,650	40	3,650	219,000	2,400	219,000	440,400
R-P3-Bq-15	1.3.2	Backfill with Existing Soil	m3	30	8,990	120	7,420	269,700	3,600	222,600	495,900
R-P3-Bq-16	1.3.3	Disposal of excavated material	m3	40	18,670	430	13,610	746,800	17,200	544,400	1,308,400
R-P3-Bq-17	1.3.4	Landslides & flattening	L.S.	1	772,800	7,000	639,900	772,800	7,000	639,900	1,419,700
R-P3-Bq-18	1.4	Concrete Works, Stone masonry, etc.									
R-P3-Bq-19	1.4.1	Concrete type K250 including Scaffolding and Formwork	m3	16	123,740	44,350	301,300	1,979,840	709,600	4,820,800	7,510,240
R-P3-Bq-20	1.4.2	Deformed Reinforcing Bars for 1.4.1	kg	2,380	1,367	3,121	3,667	3,252,508	7,427,742	8,726,984	19,407,234
R-P3-Bq-21	1.4.3	Concrete Type B0, including Formwork	m3	1	89,670	37,610	266,580	89,670	37,610	266,580	393,860
R-P3-Bq-22	1.4.4	Wet Stone Masonry 1Pc : 4Sand	m3	11	44,780	18,250	204,150	492,580	200,750	2,245,650	2,938,980
R-P3-Bq-23	1.4.5	Cement Mortar Plastering	m2	17	2,380	1,200	10,600	40,460	20,400	180,200	241,060
R-P3-Bq-24	1.4.6	Drainage Pipe									
R-P3-Bq-25	1.4.6.1	GIP1" including filter cloth	nos	4	13,267	2,000	63,250	53,067	8,000	253,000	314,067
R-P3-Bq-26	1.4.6.2	PVC 2" including filter cloth	nos	4	9,000	2,600	41,470	36,000	10,400	165,880	212,280
R-P3-Bq-27	1.4.7	Sand Fill	m3	10	15,220	1,640	37,910	152,200	16,400	379,100	547,700
R-P3-Bq-28	1.4.8	Grass Planting	m2	60	1,230	0	6,070	73,800	0	364,200	438,000
R-P3-Bq-29	1.5	Superstructure Works									
R-P3-Bq-30	1.5.1	Raising Track on the bridge for 16 cm	L.S.	1	26,500	0	131,700	26,500	0	131,700	158,200
R-P3-Bq-31	2	Box Culvert BH 6 Km. 01+177									
R-P3-Bq-32	2.1	General									
R-P3-Bq-33	2.1.1	Mobilization and demobilization	L.S.	1	372,560	96,800	1,176,090	372,560	96,800	1,176,090	1,645,450
R-P3-Bq-34	2.1.2	Establishment									
R-P3-Bq-35	2.1.2.1	Install and removal of temporary Site Office	m2	18	372,560	96,800	1,176,090	6,706,080	1,742,400	21,169,620	29,618,100
R-P3-Bq-36	2.1.2.2	Install and removal of temporary Ware House	m2	18	298,050	77,440	940,880	5,364,900	1,393,920	16,935,840	23,694,660
R-P3-Bq-37	2.1.3	Site Clearing and Measurement of the existing condition	L.S.	1	0	0	1,889,300	0	0	1,889,300	1,889,300
R-P3-Bq-38	2.1.4	Furnishing and Installing Communication equipment	Unit	1	3,636,000	0	159,000	3,636,000	0	159,000	3,795,000
R-P3-Bq-39	2.2	Temporary Works									
R-P3-Bq-40	2.2.1	Railway sign, structure for telephone cable, signal cable, etc.	L.S.	1	3,146,600	239,800	15,389,300	3,146,600	239,800	15,389,300	18,775,700
R-P3-Bq-41	2.2.2	Demolition and Removal of existing structure, existing bridge and others	L.S.	1	9,981,100	67,300	7,091,200	9,981,100	67,300	7,091,200	17,139,600

Table 8.5.3 (2/5) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-3

ID No.				Quantity	Unit Price (Rupiah)			Cost (million Rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P3-Bq-42	2.2.3	Temporary Works for construction of box culvert (include dewatering, retaining wall, removal ballast, temporary bridge and other steel and/or wooden supportters, and others)	L.S.	1	75,119,300	326,800	73,357,500	75,119,300	326,800	73,357,500	148,803,600
R-P3-Bq-43	2.3	Excavation and backfill									
R-P3-Bq-44	2.3.1	Structural Excavation	m3	60	3,650	40	3,650	219,000	2,400	219,000	440,400
R-P3-Bq-45	2.3.2	Backfill with Existing Soil	m3	20	8,990	120	7,420	179,800	2,400	148,400	330,600
R-P3-Bq-46	2.3.3	Disposal of excavated material	m3	40	18,670	430	13,610	746,800	17,200	544,400	1,308,400
R-P3-Bq-47	2.3.4	Landslides & flattening	L.S.	1	772,800	7,000	639,900	772,800	7,000	639,900	1,419,700
R-P3-Bq-48	2.4	Concrete Works, Stone masonry and Others									
R-P3-Bq-49	2.4.1	Concrete type K250 including Scaffolding and Formwork	m3	28	123,740	44,350	301,300	3,464,720	1,241,800	8,436,400	13,142,920
R-P3-Bq-50	2.4.2	Deformed Reinforcing Bars for 2.4.1	kg	4,660	1,367	3,121	3,667	6,368,356	14,543,394	17,087,288	37,999,038
R-P3-Bq-51	2.4.3	Concrete Type B0 including formwork	m3	3	89,670	37,610	266,580	269,010	112,830	799,740	1,181,580
R-P3-Bq-52	2.4.4	Wet Stone Masonry 1Pc : 4Sand	m3	9	44,780	18,250	204,150	403,020	164,250	1,837,350	2,404,620
R-P3-Bq-53	2.4.5	Cement Mortar Plastering	m2	5	2,380	1,200	10,600	11,900	6,000	53,000	70,900
R-P3-Bq-54	2.4.6	Cement Mortar Pointing	m2	7	2,000	1,010	8,900	14,000	7,070	62,300	83,370
R-P3-Bq-55	2.4.7	Drainage Pipe									
R-P3-Bq-56	2.4.7.1	GIP1" including filter	nos	6	13,267	2,000	63,250	79,600	12,000	379,500	471,100
R-P3-Bq-57	2.4.7.2	PVC 2" including filter	nos	4	9,000	2,600	41,470	36,000	10,400	165,880	212,280
R-P3-Bq-58	2.4.8	Sand Fill	m3	6	15,220	1,640	37,910	91,320	9,840	227,460	328,620
R-P3-Bq-59	2.4.9	Grass Planting	m2	220	1,230	0	6,070	270,600	0	1,335,400	1,606,000
R-P3-Bq-60	2.5	Superstructure Works									
R-P3-Bq-61	2.5.1	Raising Track on the Bridge for 44cm	L.S.	1	6,191,700	0	7,936,000	6,191,700	0	7,936,000	14,127,700
R-P3-Bq-62	3	Raising Railway Bridge BH 10 Km.01+577									
R-P3-Bq-63	3.1	General									
R-P3-Bq-64	3.1.1	Mobilization and demobilization	L.S.	1	372,560	96,800	1,176,090	372,560	96,800	1,176,090	1,645,450
R-P3-Bq-65	3.1.2	Establishment									
R-P3-Bq-66	3.1.2.1	Install and removal of temporary Site Office	m2	24	372,560	96,800	1,176,090	8,941,440	2,323,200	28,226,160	39,490,800
R-P3-Bq-67	3.1.2.2	Install and removal of temporary Ware House	m2	36	298,050	77,440	940,880	10,729,800	2,787,840	33,871,680	47,389,320
R-P3-Bq-68	3.1.3	Site Clearing, Measurement and preparation of stock pile	L.S.	1	422,700	0	2,099,200	422,700	0	2,099,200	2,521,900
R-P3-Bq-69	3.1.4	Communication equipment including Base Station, antene and battery	Unit	1	3,742,000	0	685,500	3,742,000	0	685,500	4,427,500
R-P3-Bq-70	3.2	Temporary Work									
R-P3-Bq-71	3.2.1	Railway sign, structure for telephone cable, signal cable, etc.	L.S.	1	11,962,000	239,800	59,175,100	11,962,000	239,800	59,175,100	71,376,900
R-P3-Bq-72	3.2.2	Demolition and removal of existing structure (retaining wall, steel rail fence, Abutmentments, Piers, and others)	L.S.	1	15,764,300	276,600	14,276,300	15,764,300	276,600	14,276,300	30,317,200
R-P3-Bq-73	3.2.3	Temporary Works for Abutments and Revetment for sideslope 1:2 (include coffering, dewatering, retaining wall, removal ballast, temporary bridge and other steel and/or wooden supportters, and others)	L.S.	1	69,684,800	197,000	139,177,900	69,684,800	197,000	139,177,900	209,059,700
R-P3-Bq-74	3.2.4	Temporary Works for construction of Piers and Riverbed Protection (including coffering, dewatering, and others)	L.S.	1	860,157,400	29,109,900	491,762,900	860,157,400	29,109,900	491,762,900	1,381,030,200
R-P3-Bq-75	3.2.5	Temporary works for Raising and Shifting the Bridge (including removal of bearing steel, temporary steel and/or wooden bearing, sstting/demolish construction with roller, and other steel and/or wooden supporter, and others)	L.S.	1	547,210,200	8,650,800	382,500,500	547,210,200	8,650,800	382,500,500	938,361,500
R-P3-Bq-76	3.3	Excavation and backfill									

Table 8.5.3 (3/5) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-3

ID No.			Quantity	Unit Price (Rupiah)			Cost (million Rupiah)			Total	
				PF/C	IF/C	L/C	PF/C	IF/C	L/C		
R-P3-Bq-77	3.3.1	Structural Excavation	m3	1,260	3,650	40	3,650	4,599,000	50,400	4,599,000	9,248,400
R-P3-Bq-78	3.3.2	Backfill with Existing Soil	m3	400	8,990	120	7,420	3,596,000	48,000	2,968,000	6,612,000
R-P3-Bq-79	3.3.3	Backfill with Gravel	m3	110	19,690	2,690	59,080	2,165,900	295,900	6,498,800	8,960,600
R-P3-Bq-80	3.3.4	Disposal of excavated material	m3	970	18,670	430	13,610	18,109,900	417,100	13,201,700	31,728,700
R-P3-Bq-81	3.3.5	Landslides & flattening	L.S.	1	772,800	7,000	639,900	772,800	7,000	639,900	1,419,700
R-P3-Bq-82	3.3.6	Channel Excavation for West Floodway									
R-P3-Bq-83	3.3.6.1	Excavation below Water Level	m3	5,780	14,800	243	9,617	85,541,110	1,401,650	55,583,370	142,526,130
R-P3-Bq-84	3.3.6.2	Excavation above Water Level	m3	8,180	13,880	330	9,500	113,538,400	2,699,400	77,710,000	193,947,800
R-P3-Bq-85	3.3.6.3	Clearing and Grubbing	m2	950	3,680	80	2,590	3,496,000	76,000	2,460,500	6,032,500
R-P3-Bq-86	3.4	PC Piling, Concrete Works, Stone Masonry, and others									
R-P3-Bq-87	3.4.1	PC Pile									
R-P3-Bq-88	3.4.1.1	Furnishing PC Pile D = 450mm type K500	m	1,420	198,327	510	29,093	281,623,867	724,200	41,312,533	323,660,600
R-P3-Bq-89	3.4.1.2	Driving PC Pile	m	1,370	64,531	297	52,243	88,407,323	407,551	71,572,311	160,387,185
R-P3-Bq-90	3.4.1.3	Capping, Cutting Pile Head	nos	92	15,725	4,155	27,273	1,446,700	382,260	2,509,116	4,338,076
R-P3-Bq-91	3.4.1.4	Welding for connection	nos	92	1,700	0	8,300	156,400	0	763,600	920,000
R-P3-Bq-92	3.4.1.5	Loading Test (load test = 125 tf)	nos	4	63,600	0	315,900	254,400	0	1,263,600	1,518,000
R-P3-Bq-93	3.4.2	Concrete Work									
R-P3-Bq-94	3.4.2.1	Concrete type K250 including scaffolding and formwork	m3	658	123,740	44,350	301,300	81,420,920	29,182,300	198,255,400	308,858,620
R-P3-Bq-95	3.4.2.2	Deformed Reinforcing Bars for 3.4.2.1	kg	68,970	1,367	3,121	3,667	94,254,402	215,248,473	252,899,196	562,402,071
R-P3-Bq-96	3.4.3	Lean Concrete type B0 for Abutment, Piers, Bridge and Riverbed Protection	m3	72	89,670	37,610	266,580	6,456,240	2,707,920	19,193,760	28,357,920
R-P3-Bq-97	3.4.4	Rubble Stone Filling	m3	75	15,070	2,320	49,320	1,130,250	174,000	3,699,000	5,003,250
R-P3-Bq-98	3.5	Superstructure Works									
R-P3-Bq-99	3.5.1	Raising for the bridge for 70cm height step by step	L.S.	1	1,017,111,700	101,870,400	532,501,900	1,017,111,700	101,870,400	532,501,900	1,651,484,000
R-P3-Bq-100	3.5.2	Shifting horizontal of bridge	L.S.	1	34,201,400	300	167,873,600	34,201,400	300	167,873,600	202,075,300
R-P3-Bq-101	3.5.3	Re-install of steel bearing including epoxy grouting	nos	12	177,000	189,000	690,000	2,124,000	2,268,000	8,280,000	12,672,000
R-P3-Bq-102	3.5.4	Re-painting a part of existing steel superstructure that was damage	L.S.	1	1,077,000	760,000	4,589,300	1,077,000	760,000	4,589,300	6,426,300
R-P3-Bq-103	3.5.5	Pavement Work									
R-P3-Bq-104	3.5.5.1	Demolition of Existing Pavement	L.S.	1	468,970	8,430	416,490	468,970	8,430	416,490	893,890
R-P3-Bq-105	3.5.5.2	Aggregate Class A	m3	143	35,670	4,370	97,910	5,100,810	624,910	14,001,130	19,726,850
R-P3-Bq-106	3.5.5.3	Aggregate Class B	m3	267	35,010	4,370	97,420	9,347,670	1,166,790	26,011,140	36,525,600
R-P3-Bq-107	3.5.5.4	Asphalt Concrete	ton	131	95,771	36,739	165,326	12,546,001	4,812,809	21,657,706	39,016,516
R-P3-Bq-108	3.5.5.5	Asphalt Treated Base (ATB)	ton	188	86,416	34,062	153,876	16,246,244	6,403,564	28,928,758	51,578,565
R-P3-Bq-109	3.5.5.6	Prime Coat	m2	1,130	2,571	3,638	9,132	2,905,569	4,111,223	10,319,556	17,336,347
R-P3-Bq-110	3.5.5.7	Tack Coat	m2	1,130	2,449	2,310	9,852	2,767,257	2,610,300	11,133,269	16,510,826
R-P3-Bq-111	3.5.5.8	Structural Excavation	m3	85	3,650	40	3,650	310,250	3,400	310,250	623,900
R-P3-Bq-112	3.5.5.9	Backfill	m3	37	8,990	120	7,420	332,630	4,440	274,540	611,610
R-P3-Bq-113	3.5.5.10	Wet Stone Masonry	m3	50	44,780	18,250	204,150	2,239,000	912,500	10,207,500	13,359,000
R-P3-Bq-114	3.5.5.11	Cement Mortar for Pointing	m2	54	2,000	1,010	8,900	108,000	54,540	480,600	643,140
R-P3-Bq-115	3.5.5.12	Drainage Pipe, PVC Dia. 50mm included Filter Cloth	nos.	76	3,147	909	14,500	239,161	69,091	1,102,000	1,410,252
R-P3-Bq-116	3.6	Protection Works for Riverbank and Leaning Wall									
R-P3-Bq-117	3.6.1	Excavation and Backfill									
R-P3-Bq-118	3.6.1.1	Structural Excavation	m3	2,811	3,650	40	3,650	10,260,150	112,440	10,260,150	20,632,740
R-P3-Bq-119	3.6.1.2	Backfill with Selected Soil	m3	765	12,720	770	20,480	9,730,800	589,050	15,667,200	25,987,050
R-P3-Bq-120	3.6.1.3	Backfill with Gravel	m3	117	19,690	2,690	59,080	2,303,730	314,730	6,912,360	9,530,820
R-P3-Bq-121	3.6.1.4	Gravel Bedding for Revetment and Riverbed Protection	m3	514	6,920	1,360	32,990	3,556,880	699,040	16,956,860	21,212,780

Table 8.5.3 (4/5) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-3

ID No.				Quantity	Unit Price (Rupiah)			Cost (million Rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P3-Bq-122	3.6.1.5	Rubble Stone Bedding	m3	8	13,760	2,790	65,520	110,080	22,320	524,160	656,560
R-P3-Bq-123	3.6.2	Rubble Stone Filling	m3	80	31,880	2,590	62,010	2,550,400	207,200	4,960,800	7,718,400
R-P3-Bq-124	3.6.3	Wet Stone Masonry	m3	810	44,780	18,250	204,150	36,271,800	14,782,500	165,361,500	216,415,800
R-P3-Bq-125	3.6.4	Cement Mortar Pointing on Riverside Surface of Wet Stone Masonry	m2	1,686	2,000	1,010	8,900	3,372,000	1,702,860	15,005,400	20,080,260
R-P3-Bq-126	3.6.5	Weep Hole, Dia 50mm including Filter Cloth	nos.	165	3,147	909	14,500	519,231	150,000	2,392,500	3,061,731
R-P3-Bq-127	3.6.6	Joint Filler, 10mm thick (Elastic Material)	m2	172	6,750	9,260	24,250	1,161,000	1,592,720	4,171,000	6,924,720
R-P3-Bq-128	3.6.7	Concrete, Type C1 including Formwork	m3	115	147,570	44,160	538,500	16,970,550	5,078,400	61,927,500	83,976,450
R-P3-Bq-129	3.6.8	Deformed Reinforcing Bar for 3.6.7	kg	5,920	1,230	2,809	3,300	7,281,008	16,628,688	19,536,592	43,446,288
R-P3-Bq-130	3.6.9	Lean Concrete Type B0									
R-P3-Bq-131	3.6.9.1	Concrete, Type D for Leaning Wall	m3	17	110,270	41,210	244,810	1,874,590	700,570	4,161,770	6,736,930
R-P3-Bq-132	3.6.9.2	Cast-In-Place Concrete Block (500kg/piece), Concrete Type-D	nos.	1,023	58,716	37,149	104,357	60,066,263	38,003,632	106,757,211	204,827,106
R-P3-Bq-133	3.6.10	Gabion for Revetment									
R-P3-Bq-134	3.6.10.1	Gabion Cylinder Dia.500mm (Galvanized and Coated with PVC)	m3	30	533,280	3,820	171,320	15,998,400	114,600	5,139,600	21,252,600
R-P3-Bq-135	3.6.10.2	Soil Filling	m3	10	8,860	140	7,820	88,600	1,400	78,200	168,200
R-P3-Bq-136	3.6.10.3	Gabion Mattress t=500mm (Galvanized) on Riverbed	m3	177	659,260	3,060	142,060	116,689,020	541,620	25,144,620	142,375,260
R-P3-Bq-137	3.6.11	Furnishing and Driving Log Pile, Dia 150mm, L=2.0m	m	116	35,750	370	31,360	4,147,000	42,920	3,637,760	7,827,680
R-P3-Bq-138	3.6.12	Steel Fence (with Anti-corrosion Painting), H=110cm	m	140	95,317	23,533	182,017	13,344,333	3,294,667	25,482,333	42,121,333
R-P3-Bq-139	3.6.13	Penetration Macadam Pavement 200mm thick	m2	453	12,550	8,680	41,430	5,685,150	3,932,040	18,767,790	28,384,980
R-P3-Bq-140	3.6.14	Placing Filter Cloth (Geotextile Sheet)	m2	490	14,290	30	3,800	7,002,100	14,700	1,862,000	8,878,800
R-P3-Bq-141	4	Double Box Culvert BH 13 Km. 02+ 332									
R-P3-Bq-142	4.1	General									
R-P3-Bq-143	4.1.1	Mobilization and demobilization	L.S.	1	3,944,500	51,900	6,040,200	3,944,500	51,900	6,040,200	10,036,600
R-P3-Bq-144	4.1.2	Establishment									
R-P3-Bq-145	4.1.2.1	Install and removal of temporary Site Office	m2	18	372,560	96,800	1,176,090	6,706,080	1,742,400	21,169,620	29,618,100
R-P3-Bq-146	4.1.2.2	Install and removal of temporary Ware House	m2	18	298,050	77,440	940,880	5,364,900	1,393,920	16,935,840	23,694,660
R-P3-Bq-147	4.1.3	Site Clearing and Measurement of the existing condition	L.S.	1	0	0	1,889,300	0	0	1,889,300	1,889,300
R-P3-Bq-148	4.1.4	Furnishing and Installing Communication equipment (H.T)	Unit	1	3,636,000	0	159,000	3,636,000	0	159,000	3,795,000
R-P3-Bq-149	4.2	Temporary Work									
R-P3-Bq-150	4.2.1	Railway sign, structure for telephone cable, signal cable, etc.	L.S.	1	16,130,500	494,900	20,674,900	16,130,500	494,900	20,674,900	37,300,300
R-P3-Bq-151	4.2.2	Demolition and Removal of existing structure, existing bridge and others	L.S.	1	943,600	18,700	764,000	943,600	18,700	764,000	1,726,300
R-P3-Bq-152	4.2.3	Temporary Works for construction of double box culvert (including coffering, dewatering, retaining wall, removal ballast, temporary bridge and other steel and/or wooden supporters, and others)	L.S.	1	166,258,600	740,200	195,539,300	166,258,600	740,200	195,539,300	362,538,100
R-P3-Bq-153	4.3	Excavation and backfill									
R-P3-Bq-154	4.3.1	Structural Excavation	m3	60	3,650	40	3,650	219,000	2,400	219,000	440,400
R-P3-Bq-155	4.3.2	Backfill with Existing Soil	m3	100	8,990	120	7,420	899,000	12,000	742,000	1,653,000
R-P3-Bq-156	4.3.3	Landslides & flattening	L.S.	1	772,800	7,000	639,900	772,800	7,000	639,900	1,419,700
R-P3-Bq-157	4.4	Concrete Works, Stone Masonry, etc.									
R-P3-Bq-158	4.4.1	Concrete Type K 225 including Form Work	m3	30	123,740	44,350	301,300	3,712,200	1,330,500	9,039,000	14,081,700
R-P3-Bq-159	4.4.2	Deformed Reinforcing Bars for 4.4.1	kg	3,680	1,367	3,121	3,667	5,029,088	11,484,912	13,493,824	30,007,824
R-P3-Bq-160	4.4.3	Anchor bar Dia 19mm L = 850mm	kg	40	1,230	2,809	3,300	49,196	112,356	132,004	293,556

Table 8.5.3 (5/5) PAYMENT ITEMS AND THE COSTS FOR PACKAGE-3

ID No.				Quantity	Unit Price (Rupiah)			Cost (million Rupiah)			Total
					PF/C	IF/C	L/C	PF/C	IF/C	L/C	
R-P3-Bq-161	4.4.4	Epoxy	m2	10	4,620	6,000	16,910	46,200	60,000	169,100	275,300
R-P3-Bq-162	4.5	Superstructure Works									
R-P3-Bq-163	4.5.1	Raising track for 83 cm step by step	L.S.	1	12,859,700	0	18,462,400	12,859,700	0	18,462,400	31,322,100
R-P3-Bq-164	5	Track Raising Km. 00+677 - Km. 02+521									
R-P3-Bq-165	5.1	General									
R-P3-Bq-166	5.1.1	Mobilization and demobilization	L.S.	1	3,202,500	51,900	2,354,700	3,202,500	51,900	2,354,700	5,609,100
R-P3-Bq-167	5.1.2	Establishment									
R-P3-Bq-168	5.1.2.1	Install and removal of temporary Site Office	m2	18	372,560	96,800	1,176,090	6,706,080	1,742,400	21,169,620	29,618,100
R-P3-Bq-169	5.1.2.2	Install and removal of temporary Ware House	m2	18	298,050	77,440	940,880	5,364,900	1,393,920	16,935,840	23,694,660
R-P3-Bq-170	5.1.3	Site Clearing and Measurement of the existing condition	L.S.	1	636,000	0	3,159,000	636,000	0	3,159,000	3,795,000
R-P3-Bq-171	5.1.4	Avoidance of Accident									
R-P3-Bq-172	5.1.4.1	Watching Train	L.S.	1	4,321,500	0	21,464,400	4,321,500	0	21,464,400	25,785,900
R-P3-Bq-173	5.1.4.2	Guard of restriction speed	MD	360	7,500	0	37,000	2,700,000	0	13,320,000	16,020,000
R-P3-Bq-174	5.2	Truck Work									
R-P3-Bq-175	5.2.1	Coarse Sand	m3	5,210	18,413	2,962	62,942	95,931,730	15,432,020	327,927,820	439,291,570
R-P3-Bq-176	5.2.2	Ballast	m3	4,380	214,680	36,840	774,220	940,298,400	161,359,200	3,391,083,600	4,492,741,200
R-P3-Bq-177	5.2.3	Wooden Sleepers (size 13 x 22 x 200 cm)	Bar	420	26,500	0	131,630	11,130,000	0	55,284,600	66,414,600
R-P3-Bq-178	5.2.4	Track Raising every 5 cm until 70 ~ 100 cm for 5 Km/H Speed	m	15,650	10,700	100	33,730	167,455,000	1,565,000	527,874,500	696,894,500
R-P3-Bq-179	5.2.5	Track Tamping for 20 Km/H	m	1,840	2,050	20	7,220	3,772,000	36,800	13,284,800	17,093,600
R-P3-Bq-180	5.2.6	Track Tamping for 40 Km/H	m	1,840	4,790	50	14,730	8,813,600	92,000	27,103,200	36,008,800
R-P3-Bq-181	5.2.7	Track Tamping for 60 Km/H	m	1,840	6,190	70	18,700	11,389,600	128,800	34,408,000	45,926,400
R-P3-Bq-182	5.2.8	Track Tamping for > 60 Km/H by Tamping machine	m	1,840	6,280	90	20,360	11,555,200	165,600	37,462,400	49,183,200
R-P3-Bq-183	5.3	Retaining Wall Work									
R-P3-Bq-184	5.3.1	Structural Excavation	m3	1,190	3,650	40	3,650	4,343,500	47,600	4,343,500	8,734,600
R-P3-Bq-185	5.3.2	Backfill with Existing Soil	m3	600	8,990	120	7,420	5,394,000	72,000	4,452,000	9,918,000
R-P3-Bq-186	5.3.3	Disposal of excavated material	m3	600	18,670	430	13,610	11,202,000	258,000	8,166,000	19,626,000
R-P3-Bq-187	5.3.4	Wet Stone Masonry	m3	1,900	44,780	18,250	204,150	85,082,000	34,675,000	387,885,000	507,642,000
R-P3-Bq-188	5.3.5	Lean Concrete	m3	105	89,670	37,610	266,580	9,415,350	3,949,050	27,990,900	41,355,300
R-P3-Bq-189	5.3.6	Fill with Gravel	m3	210	18,580	4,060	88,210	3,901,800	852,600	18,524,100	23,278,500
R-P3-Bq-190	5.4	Level Crossing Raising for 8 (eight) crossings									
R-P3-Bq-191	5.4.1	Coarse Sand	m3	3,130	18,413	2,962	62,942	57,632,690	9,271,060	197,008,460	263,912,210
R-P3-Bq-192	5.4.2	To Run Over by Roller	m2	7,770	5,200	1,080	22,010	40,404,000	8,391,600	171,017,700	219,813,300
R-P3-Bq-193	5.4.3	Hot Mix Asphalt	m2	7,770	10,610	3,370	45,930	82,439,700	26,184,900	356,876,100	465,500,700
R-P3-Bq-194	5.4.4	Stone Masonry 1 PC : 4 Sand for retaining wall	m3	590	44,780	18,250	204,150	26,420,200	10,767,500	120,448,500	157,636,200
R-P3-Bq-195	5.4.5	Guard for Traffic Arrange (8 x 2 x 90)	MD	1,440	7,450	0	36,970	10,728,000	0	53,236,800	63,964,800
R-P3-Bq-196	5.5	Guard Post Work									
R-P3-Bq-197	5.5.1	To build guard Building (3 x 3 m2) for 2 Level Crossing	Unit	2	1,108,440	288,000	3,499,110	2,216,880	576,000	6,998,220	9,791,100
R-P3-Bq-198	5.5.2	Raising and shift level Crossing Barrier with it's installation	Unit	1	3,604,000	0	17,901,000	3,604,000	0	17,901,000	21,505,000
R-P3-Bq-199	5.5.3	Raising level Crossing Barrier with it's installation	Unit	1	4,452,000	0	22,113,000	4,452,000	0	22,113,000	26,565,000
		Total						5,804,121,923	838,363,451	9,871,215,430	16,513,700,805

Table 8.5.4 ENGINEERING SERVICE COST

COST FOR ENGINEERING SERVICES ON CONSTRUCTION SUPERVISION
SUMMARY

I.	FOREIGN CURRENCY IN YEN		¥197,860,910
	1.1 Remuneration (Professional A)	¥178,311,752	
	1.2 Direct Cost	¥19,549,158	
II.	LOCAL CURRENCY PORTION		Rp.6,219,988,000
	3.1 Remuneration (Professional B)	Rp.2,310,500,000	
	3.2 Direct Cost	Rp.3,344,813,000	
	3.3 Equipment Cost	Rp.564,675,000	
III.	TOTAL (I + II + III)		Rp.18,169,745,561
	Foreign Currency in Yen	Rp.11,949,757,561	
	Local Currency in Rupiah	Rp.6,219,988,000	
		or equivalent to	¥300,849,818
IV.	PHYSICAL CONTINGENCY (6%)		Rp.1,090,184,734
	Foreign Currency in Yen	Rp.716,985,454	¥11,871,655
	Local Currency in Rupiah	Rp.373,199,280	
		or equivalent to	¥18,050,989
V.	PRICE CONTINGENCY (F/C 3%, L/C 8%)		Rp.907,457,273
	Foreign Currency in Yen	Rp.380,002,290	¥6,291,977
	Local Currency in Rupiah	Rp.527,454,982	
		or equivalent to	¥15,025,436
VI.	VAT (10% OF III + IV + V)		Rp.2,016,738,757
VII.	TOTAL (III + IV + V + VI)		Rp.22,184,126,324
		or equivalent to	¥367,318,867

Note: Applied Conversion Rate as of July 31, 1999

Table 8.5.5 CALCULATION SHEET FOR COMPENSATION COST

Description	Unit	Quantities	Unit Cost			Total Cost			Remarks
			PF/C	IF/C	L/C	PF/C	IF/C	L/C	
Construction of House newly	houses	2	0	0	30,000,000	0	0	60,000,000	
Purchasing of Land	m2	26,000	0	0	25,000	0	0	650,000,000	
Total			0	0	30,025,000	0	0	710,000,000	

Table 8.5.6 PRICE CONTINGENCY

	P/F	V/F	L/F	Total Cost
Construction Base Cost	11,487,186,146	734,928,758	21,619,340,598	33,841,455,501
Engineering Service Cost	380,002,290		527,454,982	907,457,273
Compensation Cost			469,020,320	469,020,320
Administration Cost			2,270,626,522	2,270,626,522
Total	11,867,188,436	734,928,758	24,886,442,422	37,488,559,615

Note : All costs are exclusive of Tax.

Table 8.5.7 DISBURSEMENT SCHEDULE

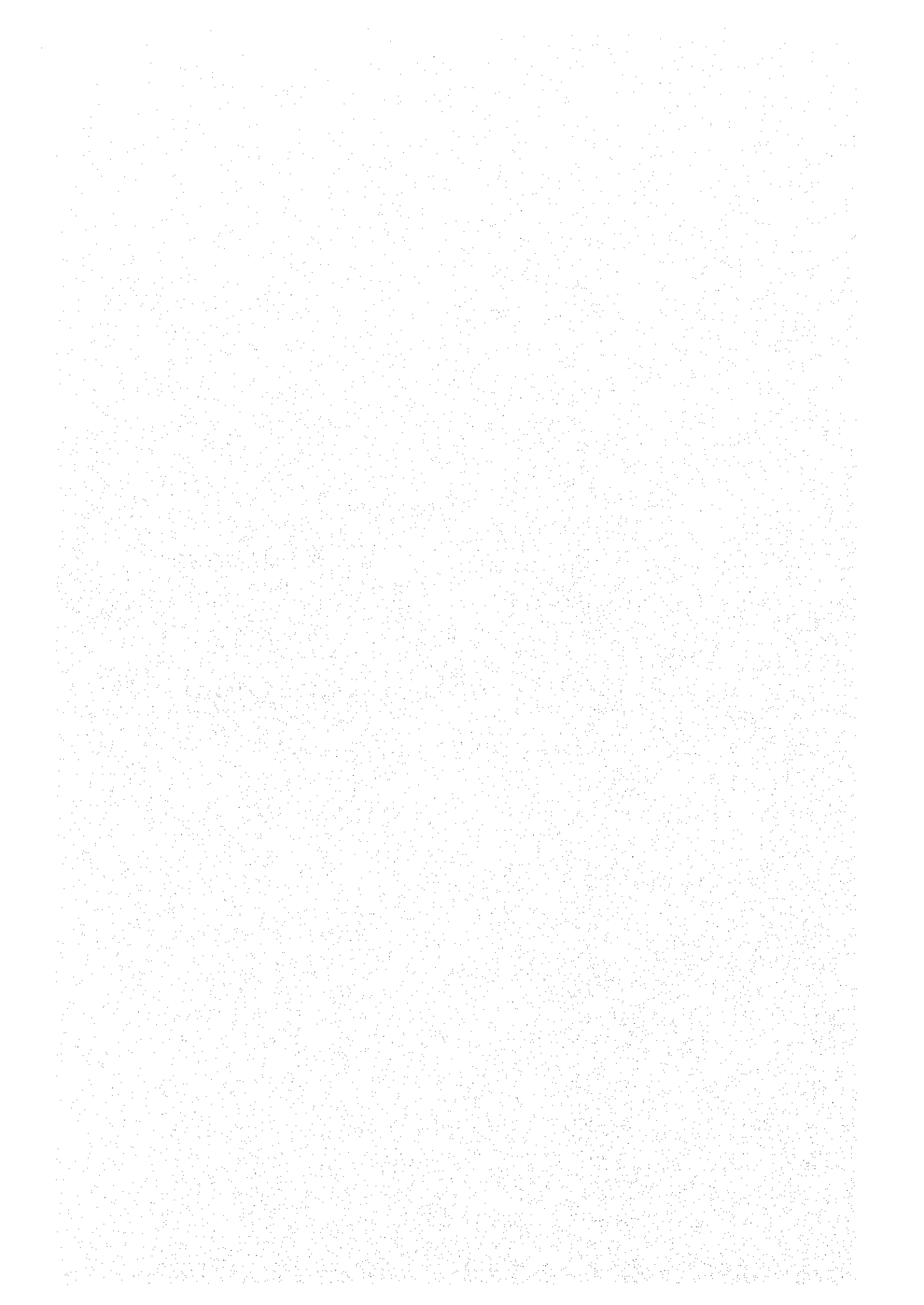
Work Name	Currency	2000	2001	2002	2003	Total
Package-1	Rupiah	0	40,275,563,871	71,002,903,000	29,153,430,717	140,431,897,588
	Converting into Yen	0	666,872,082	1,175,647,196	482,714,757	2,325,234,034
Package-2	Rupiah	0	52,582,094,693	19,290,157,339	45,720,924,153	117,593,176,186
	Converting into Yen	0	870,640,348	319,401,298	757,034,910	1,947,076,556
Package-3	Rupiah	0	1,203,338,179	21,685,777,774	0	22,889,115,953
	Converting into Yen	0	19,924,554	359,067,344	0	378,991,898
Administration Cost	Rupiah	0	5,701,675,877	6,753,295,899	4,495,029,881	16,950,001,656
	Converting into Yen	0	94,406,834	111,819,278	74,427,510	280,653,622
Engineering Service Cost	Rupiah	1,109,206,316	7,056,708,425	8,400,934,152	5,617,277,430	22,184,126,324
	Converting into Yen	18,365,943	116,843,102	139,100,435	93,009,387	367,318,867
Compensation Cost	Rupiah		782,704,000	438,916,320		1,221,620,320
	Converting into Yen	0	12,959,805	7,267,460	0	20,227,265
Total	Rupiah	1,109,206,316	107,602,085,045	127,571,984,484	84,986,662,181	321,269,938,027
	Converting into Yen	18,365,943	1,781,646,724	2,112,303,011	1,407,186,563	5,319,502,242

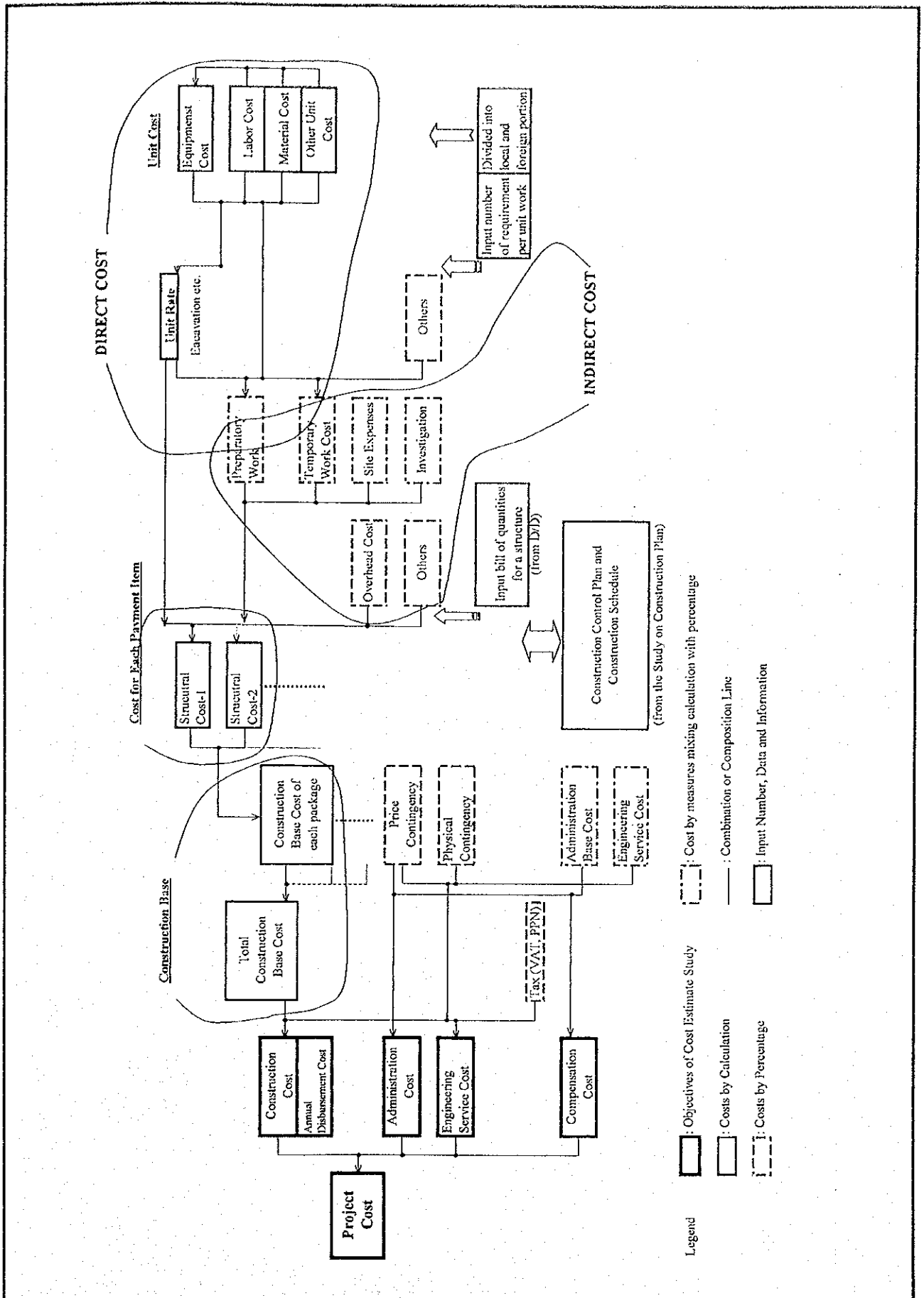
Note : All costs include price and physical contingencies and tax.

FIGURES

CHAPTER 8

COST ESTIMATE





THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 8.1.1
FLOWCHART OF COST ESTIMATE