APPENDIX - B

JAKARTA – BANDUNG HIGH SPEED RAILWAY PROJECT
FEASIBILITY STUDY PHASE-I

LABORATORY TEST TABLE

SOIL INVESTIGATION FOR JAKARTA - BANDUNG HIGH-SPEED RAILWAY PROJECT

JICA TEAM

Bor Hole No	Depth in meter	Sample Type	Specific Gravity	Density		Water Content	Atterberg limits			Liquidity Index	Void Ratio	Porosity	Degree of Saturation	% finer by weight passing no 200 sieve	USCS	
				Wet density	Dry density		Liquid Limit	Plastic Limit	Plasticity Index						Group Name/Soil Description	Group Symbol
-	-	-	G_s	γ_m t/m^3	γ_d t/m^3	w_n %	wL %	wP %	IP %	IL -	e -	n %	Sr %			
B-1	01.70 - 02.00	US	2.54	1.68	1.12	49.8	72.1	32.0	40.1	0.44	1.27	56	100	99	Fat Clay	CH
	05.70 - 06.00	US	2.84	1.48	0.79	86.8	96.2	35.8	60.4	0.84	2.59	72	95	95	Fat Clay	CH
	11.70 - 12.00	DS	2.60	2.03	1.71	18.6	66.0	26.6	39.4	-0.20	0.52	34	93	91	Fat Clay	CH
	13.70 - 14.00	DS	2.74	2.02	1.72	17.4	78.2	15.7	62.5	0.03	0.59	37	80	98	Fat Clay	CH
	15.70 - 16.00	DS	2.59	2.09	1.77	17.9	74.0	29.2	44.8	-0.25	0.46	32	100	100	Fat Clay	CH
	17.70 - 18.00	DS	2.71	1.92	1.63	17.6	72.5	27.2	45.3	-0.21	0.66	40	72	99	Fat Clay	CH
	19.70 - 20.00	DS	2.65	2.11	1.78	18.3	105.0	16.9	88.1	0.02	0.49	33	99	100	Fat Clay	CH
B-2	01.70 - 02.00	US	2.74	1.76	1.25	41.1	70.4	23.3	47.1	0.38	1.19	54	94	58	Sandy Fat Clay	CH
	03.70 - 04.00	DS	2.80	1.69	1.30	29.8	45.2	23.5	21.7	0.29	1.15	54	72	35	Clayey Sand	SC
	05.70 - 06.00	DS	2.70	1.75	1.20	46.2	47.2	23.6	23.6	0.96	1.25	56	100	43	Clayey Sand	SC
	07.70 - 08.00	DS	2.67	1.67	1.18	41.4	56.0	25.1	30.9	0.53	1.26	56	88	51	Sandy Fat Clay	CH
	09.70 - 10.00	DS	2.69	1.44	0.87	65.0	83.0	25.9	57.1	0.68	2.09	68	84	68	Sandy Fat Clay	CH
B-3	01.70 - 02.00	US	2.57	*	*	22.6	56.4	24.7	31.7	-0.07	-	-	-	92	Fat Clay	CH
	03.70 - 04.00	DS	2.77	1.87	1.40	33.4	80.5	30.0	50.5	0.07	0.98	49	95	84	Fat Clay with Sand	CH
	05.70 - 06.00	DS	2.80	1.47	0.92	59.4	86.0	29.8	56.2	0.53	2.04	67	81	96	Fat Clay	CH
	07.70 - 08.00	DS	2.71	1.49	0.82	81.9	83.4	31.0	52.4	0.97	2.30	70	96	91	Fat Clay	CH
	09.70 - 10.00	DS	2.60	1.18	0.67	75.7	71.2	27.2	44.0	1.10	2.88	74	68	94	Fat Clay	CH
	10.70 - 11.00	US	2.69	1.42	0.79	79.4	103.0	38.1	64.9	0.64	2.41	71	89	82	Fat Clay with Sand	CH
	11.70 - 12.00	DS	2.73	1.54	0.89	72.9	99.4	31.9	67.5	0.61	-	-	-	94	Fat Clay	CH
	13.70 - 14.00	DS	2.63	1.42	0.86	64.6	56.8	38.5	18.3	1.43	2.06	67	83	61	Sandy Elastic Silt	MH
	15.70 - 16.00	DS	2.72	1.56	0.97	60.7	51.1	36.0	15.1	1.64	1.80	64	92	67	Sandy Elastic Silt	MH
	17.70 - 18.00	DS	2.69	1.54	0.90	70.8	68.1	26.6	41.5	1.07	-	-	-	78	Fat Clay with Sand	CH
	19.70 - 20.00	DS	2.61	1.38	0.72	91.3	92.2	32.2	60.0	0.99	2.63	72	91	90	Fat Clay	CH

LABORATORY TEST TABLE

SOIL INVESTIGATION FOR JAKARTA - BANDUNG HIGH-SPEED RAILWAY PROJECT

JICA TEAM

Bor Hole No	Depth in meter	Sample Type	Specific Gravity	Density		Water Content	Atterberg limits			Liquidity Index	Void Ratio	Porosity	Degree of Saturation	% finer by weight passing no 200 sieve	USCS	
				Wet density	Dry density		Liquid Limit	Plastic Limit	Plasticity Index						Group Name/Soil Description	Group Symbol
-	-	-	G_s -	γ_m t/m^3	γ_d t/m^3	w_n %	wL %	wP %	IP %	IL -	e -	n %	Sr %			
	21.70 - 22.00	DS	2.81	2.07	1.75	18.4	Non Plastic			-	0.61	38	85	23	Silty Sand	SM
	23.70 - 24.00	DS	2.63	1.63	1.19	37.0	Non Plastic			-	1.21	55	80	39	Silty Sand	SM
	24.70 - 25.00	US	2.59	1.52	1.00	52.3	85.5	30.6	54.9	0.40	1.59	61	85	92	Fat Clay	CH
	31.70 - 32.00	DS	2.70	1.58	1.10	44.0	62.4	22.0	40.4	0.54	1.45	59	82	97	Fat Clay	CH
	33.70 - 34.00	DS	2.52	1.86	1.43	30.2	56.8	22.2	34.6	0.23	0.76	43	100	94	Fat Clay	CH
	35.70 - 36.00	DS	2.70	1.93	1.52	27.3	58.3	17.1	41.2	0.25	0.78	44	95	96	Fat Clay	CH
	37.70 - 38.00	DS	2.70	1.66	1.07	54.9	115.5	39.8	75.7	0.20	1.52	60	97	100	Fat Clay	CH
	39.70 - 40.00	DS	2.75	1.94	1.49	30.5	60.0	25.0	35.0	0.16	0.85	46	99	97	Fat Clay	CH
	41.70 - 42.00	DS	2.70	2.03	1.64	23.9	66.8	24.0	42.8	0.00	0.65	39	100	100	Fat Clay	CH
	43.70 - 44.00	DS	2.77	1.98	1.55	27.6	70.8	26.2	44.6	0.03	0.79	44	97	99	Fat Clay	CH
	47.70 - 48.00	DS	2.64	1.83	1.42	28.7	36.6	20.7	15.9	0.50	0.86	46	88	40	Clayey Sand	SC
	49.70 - 50.00	DS	2.46	1.46	0.78	87.6	141.8	52.0	89.8	0.40	2.15	68	100	94	Fat Clay	CH
B-4	02.70 - 03.00	US	2.64	*	*	44.1	63.2	28.6	34.6	0.45	-	-	-	81	Fat Clay with Sand	CH
	11.70 - 12.00	DS	2.58	1.71	1.19	44.0	50.3	25.0	25.3	0.75	1.17	54	97	62	Sandy Fat Clay	CH
	13.70 - 14.00	DS	2.57	1.58	0.97	63.3	68.4	28.0	40.4	0.87	1.65	62	99	92	Fat Clay	CH
	15.70 - 16.00	DS	2.58	1.90	1.48	28.5	50.5	23.4	27.1	0.19	0.74	43	99	88	Fat Clay	CH
	17.70 - 18.00	US	2.73	1.63	1.02	60.2	85.0	36.5	48.5	0.49	1.68	63	98	55	Sandy Fat Clay	CH
	19.70 - 20.00	US	2.73	1.57	1.06	48.2	75.4	32.7	42.7	0.36	1.58	61	84	100	Fat Clay	CH
	21.70 - 22.00	US	2.75	1.63	1.10	47.9	78.4	30.4	48.0	0.36	1.50	60	88	100	Fat Clay	CH
	23.70 - 24.00	US	2.67	1.60	1.09	46.6	65.1	30.3	34.8	0.47	1.45	59	86	85	Fat Clay with Sand	CH
	24.00 - 24.45	DS	2.59	1.62	1.14	42.0	53.8	28.2	25.6	0.54	1.27	56	86	93	Fat Clay	CH
	25.70 - 26.00	DS	2.62	1.63	1.09	49.2	40.5	31.2	9.3	1.94	1.40	58	92	99	Silt	ML
	27.70 - 28.00	DS	2.63	1.48	0.89	66.6	94.1	33.5	60.6	0.55	1.96	66	90	100	Fat Clay	CH
	29.70 - 30.00	US	2.68	1.81	1.33	36.4	57.0	28.0	29.0	0.29	1.02	50	96	99	Fat Clay	CH

LABORATORY TEST TABLE

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JICA TEAM

Bor Hole No	Depth in meter	Sample Type	Specific Gravity	Density		Water Content	Atterberg limits			Liquidity Index	Void Ratio	Porosity	Degree of Saturation	% finer by weight passing no 200 sieve	USCS	
				Wet density	Dry density		Liquid Limit	Plastic Limit	Plasticity Index						Group Name/Soil Description	Group Symbol
-	-	-	G_s -	γ_m t/m^3	γ_d t/m^3	w_n %	wL %	wP %	IP %	IL -	e -	n %	Sr %			
	31.70 - 32.00	DS	2.65	2.00	1.63	23.0	49.1	17.0	32.1	0.19	0.63	38	97	97	Lean Clay	CL
	33.70 - 34.00	DS	2.56	1.97	1.59	23.8	57.4	19.1	38.3	0.12	0.61	38	100	99	Fat Clay	CH
	35.70 - 36.00	DS	2.56	1.66	1.23	35.2	99.3	31.1	68.2	0.06	1.08	52	83	98	Fat Clay	CH
	37.70 - 38.00	US	2.63	1.75	1.32	32.9	46.0	25.3	20.7	0.37	0.99	50	87	62	Sandy Lean Clay	CL
	39.70 - 40.00	DS	2.56	1.96	1.58	24.2	52.4	20.1	32.3	0.13	0.62	38	100	93	Fat Clay	CH
	41.70 - 42.00	DS	2.64	1.84	1.40	31.7	45.1	22.4	22.7	0.41	0.89	47	94	74	Lean Clay with Sand	CL
	43.70 - 44.00	DS	2.59	1.95	1.61	20.9	28.1	16.6	11.5	0.37	0.61	38	89	27	Clayey Sand	SC
	45.70 - 46.00	DS	2.72	1.83	1.37	33.8	67.3	24.3	43.0	0.22	0.99	50	93	94	Fat Clay	CH
	47.70 - 48.00	DS	2.70	1.74	1.33	30.8	44.8	23.0	21.8	0.36	1.03	51	81	99	Fat Clay	CH
	49.70 - 50.00	DS	2.73	1.82	1.35	34.8	101.3	26.0	75.3	0.12	1.02	51	93	100	Fat Clay	CH
	51.70 - 52.00	DS	2.62	1.85	1.37	34.8	81.9	28.9	53.0	0.11	0.91	48	100	41	Clayey Gravel with Sand	GC
	53.70 - 54.00	DS	2.72	1.92	1.52	26.1	73.2	19.8	53.4	0.12	0.79	44	90	99	Fat Clay	CH
	55.70 - 56.00	DS	2.70	2.03	1.64	24.0	59.8	23.6	36.2	0.01	0.65	39	100	98	Fat Clay	CH
	57.70 - 58.00	DS	2.72	1.99	1.60	24.3	67.2	23.1	44.1	0.03	0.70	41	94	88	Fat Clay	CH
	59.70 - 60.00	DS	2.70	1.85	1.46	26.7	36.2	18.6	17.6	0.46	0.85	46	85	52	Sandy Lean Clay	CL
B-5	01.70 - 02.00	US	2.61	1.86	1.40	33.1	80.0	21.0	59.0	0.21	0.86	46	100	99	Fat Clay	CH
	03.70 - 04.00	US	2.72	1.82	1.41	29.2	42.5	15.3	27.2	0.51	0.93	48	85	92	Lean Clay	CL
	05.70 - 06.00	US	2.70	1.89	1.45	30.3	69.0	22.0	47.0	0.18	0.86	46	95	99	Fat Clay	CH
	07.70 - 08.00	DS	2.70	1.86	1.44	29.3	72.1	26.0	46.1	0.07	0.88	47	90	100	Fat Clay	CH
	09.70 - 10.00	US	2.69	1.67	1.21	38.3	70.8	26.3	44.5	0.27	1.22	55	84	100	Fat Clay	CH
	11.70 - 12.00	US	2.71	1.79	1.37	30.6	70.0	19.8	50.2	0.22	0.98	49	85	99	Fat Clay	CH
	13.70 - 14.00	DS	2.66	1.84	1.38	33.3	65.2	22.7	42.5	0.25	0.93	48	95	100	Fat Clay	CH
	15.70 - 16.00	DS	2.66	1.78	1.32	35.0	80.2	23.9	56.3	0.20	1.02	50	92	100	Fat Clay	CH
	17.70 - 18.00	DS	2.74	1.94	1.49	30.0	73.8	22.7	51.1	0.14	0.84	46	98	99	Fat Clay	CH

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JICA TEAM

Bor Hole No	Depth in meter	Sample Type	Specific Gravity	Density		Water Content	Atterberg limits			Liquidity Index	Void Ratio	Porosity	Degree of Saturation	% finer by weight passing no 200 sieve	USCS	
				Wet density	Dry density		Liquid Limit	Plastic Limit	Plasticity Index						Group Name/Soil Description	Group Symbol
-	-	-	G_s -	γ_m t/m^3	γ_d t/m^3	w_n %	wL %	wP %	IP %	IL -	e -	n %	Sr %			
	19.70 - 20.00	DS	2.60	1.75	1.25	39.6	55.2	27.0	28.2	0.45	1.08	52	95	82	Fat Clay with Sand	CH
	21.70 - 22.00	DS	2.61	1.80	1.40	28.7	44.9	30.0	14.9	-0.09	0.86	46	87	50	Sandy Silt	ML
	23.70 - 24.00	DS	2.69	1.80	1.36	32.3	58.4	29.9	28.5	0.08	0.98	49	89	98	Fat Clay	CH
	25.70 - 26.00	DS	2.60	1.66	1.21	37.5	47.8	33.9	13.9	0.26	1.15	53	85	46	Silty Sand	SM
	27.70 - 28.00	DS	2.77	1.89	1.43	32.1	80.3	28.8	51.5	0.06	0.94	48	95	99	Fat Clay	CH
	29.70 - 30.00	DS	2.71	1.89	1.50	26.3	57.0	23.3	33.7	0.09	0.81	45	88	97	Fat Clay	CH
	31.70 - 32.00	DS	2.73	1.81	1.35	34.3	68.3	25.9	42.4	0.20	1.02	51	92	97	Fat Clay	CH
	33.70 - 34.00	DS	2.70	1.78	1.37	29.6	52.0	27.0	25.0	0.10	0.97	49	82	96	Fat Clay	CH
	35.70 - 36.00	DS	2.65	1.87	1.48	26.2	45.4	20.1	25.3	0.24	0.79	44	88	100	Lean Clay	CL
	41.70 - 42.00	DS	2.56	1.91	1.50	27.3	36.7	22.1	14.6	0.36	0.71	41	99	33	Clayey Sand	SC
	43.70 - 44.00	DS	2.65	1.74	1.35	29.2	48.8	22.6	26.2	0.25	0.96	49	80	93	Lean Clay	CL
	45.70 - 46.00	DS	2.58	1.99	1.62	23.0	65.0	21.4	43.6	0.04	0.59	37	100	98	Fat Clay	CH
	47.70 - 48.00	DS	2.69	1.88	1.44	30.5	62.4	25.0	37.4	0.15	0.87	46	95	99	Fat Clay	CH
	49.70 - 50.00	DS	2.58	1.95	1.55	25.6	58.1	24.0	34.1	0.05	0.66	40	99	98	Fat Clay	CH
B-9	01.70 - 02.00	US	2.84	1.62	1.35	20.1	47.5	15.9	31.6	0.13	1.10	52	52	73	Lean Clay with Sand	CL
	03.70 - 04.00	US	2.78	1.72	1.26	36.2	82.5	26.1	56.4	0.18	1.21	55	83	99	Fat Clay	CH
	05.70 - 06.00	DS	2.62	*	*	14.8	65.0	26.1	38.9	-0.29	-	-	-	91	Fat Clay	CH
	07.70 - 08.00	DS	2.67	*	*	13.3	55.4	25.0	30.4	-0.38	-	-	-	84	Fat Clay with Sand	CH
	09.70 - 10.00	DS	2.63	2.00	1.67	19.9	72.3	17.8	54.5	0.04	0.57	37	91	91	Fat Clay	CH
	11.70 - 12.00	DS	2.60	2.03	1.71	18.6	66.0	26.6	39.4	-0.20	0.52	34	93	91	Fat Clay	CH
	13.70 - 14.00	DS	2.74	2.02	1.72	17.4	78.2	15.7	62.5	0.03	0.59	37	80	98	Fat Clay	CH
	15.70 - 16.00	DS	2.59	2.09	1.77	17.9	74.0	29.2	44.8	-0.25	0.46	32	100	100	Fat Clay	CH
	17.70 - 18.00	DS	2.71	1.92	1.63	17.6	72.5	27.2	45.3	-0.21	0.66	40	72	99	Fat Clay	CH
	19.70 - 20.00	DS	2.65	2.11	1.78	18.3	105.0	16.9	88.1	0.02	0.49	33	99	100	Fat Clay	CH

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JICA TEAM

Bor Hole No	Depth in meter	Sample Type	Specific Gravity	Density		Water Content	Atterberg limits			Liquidity Index	Void Ratio	Porosity	Degree of Saturation	% finer by weight passing no 200 sieve	USCS	
				Wet density	Dry density		Liquid Limit	Plastic Limit	Plasticity Index						Group Name/Soil Description	Group Symbol
-	-	-	G_s	γ_m t/m^3	γ_d t/m^3	w_n %	wL %	wP %	IP %	IL -	e -	n %	Sr %			
B-15	01.70 - 02.00	DS	2.61	1.89	1.45	30.7	Non Plastic			-	0.80	44	100	42	Silty Sand	SM
	05.70 - 06.00	DS	2.56	1.66	1.08	53.5	60.9	28.0	32.9	0.78	1.37	58	100	58	Sandy Fat Clay	CH
	07.70 - 08.00	DS	2.60	1.57	1.01	55.9	80.6	30.0	50.6	0.51	1.57	61	92	67	Sandy Fat Clay	CH
	09.70 - 10.00	DS	2.61	1.69	1.11	51.9	Non Plastic			-	1.35	57	100	23	Silty Sand with Gravel	SM
	11.70 - 12.00	DS	2.61	1.70	1.30	30.9	Non Plastic			-	1.01	50	80	28	Silty Sand with Gravel	SM
	13.70 - 14.00	DS	2.59	1.67	1.33	25.7	Non Plastic			-	0.95	49	70	17	Silty Sand with Gravel	SM
	15.70 - 16.00	DS	2.59	1.60	1.25	27.8	Non Plastic			-	1.07	52	67	19	Silty Sand with Gravel	SM
	16.70 - 17.00	US	2.57	1.52	0.97	57.1	77.7	30.1	47.6	0.57	1.65	62	89	89	Fat Clay	CH
	17.70 - 18.00	DS	2.61	1.99	1.61	23.7	Non Plastic			-	0.62	38	100	28	Silty Sand with Gravel	SM
	19.70 - 20.00	DS	2.62	1.57	1.23	27.5	Non Plastic			-	1.13	53	64	26	Silty Sand with Gravel	SM
	21.70 - 22.00	DS	2.58	1.91	1.66	15.0	Non Plastic			-	0.55	36	70	35	Silty Sand	SM
	23.70 - 24.00	DS	2.73	1.67	1.35	24.0	Non Plastic			-	1.02	51	64	26	Silty Sand	SM
	25.70 - 26.00	DS	2.64	*	*	25.0	Non Plastic			-	-	-	-	24	Silty Sand	SM
B-16	01.70 - 02.00	US	2.63	1.60	0.99	61.9	106.1	38.5	67.6	0.35	1.66	62	98	89	Fat Clay	CH
	03.70 - 04.00	US	2.67	1.47	0.87	69.0	61.0	27.2	33.8	1.24	2.07	67	89	58	Sandy Fat Clay	CH
	05.70 - 06.00	DS	2.63	*	*	31.5	Non Plastic			-	-	-	-	29	Silty Sand with Gravel	SM
	09.70 - 10.00	DS	2.68	1.80	1.43	25.6	Non Plastic			-	0.87	47	78	22	Silty Sand	SM
	11.70 - 12.00	DS	2.68	1.62	1.26	28.3	Non Plastic			-	1.13	53	67	27	Silty Sand	SM
	13.70 - 14.00	DS	2.69	1.76	1.38	27.7	Non Plastic			-	0.95	49	78	26	Silty Sand	SM
	17.70 - 18.00	DS	2.81	1.85	1.60	15.7	Non Plastic			-	0.76	43	58	30	Silty Sand	SM
	19.70 - 20.00	DS	2.61	*	*	16.2	Non Plastic			-	-	-	-	23	Silty Sand	SM
	21.70 - 22.00	DS	2.67	1.53	1.23	24.3	Non Plastic			-	1.17	54	55	22	Silty Sand with Gravel	SM

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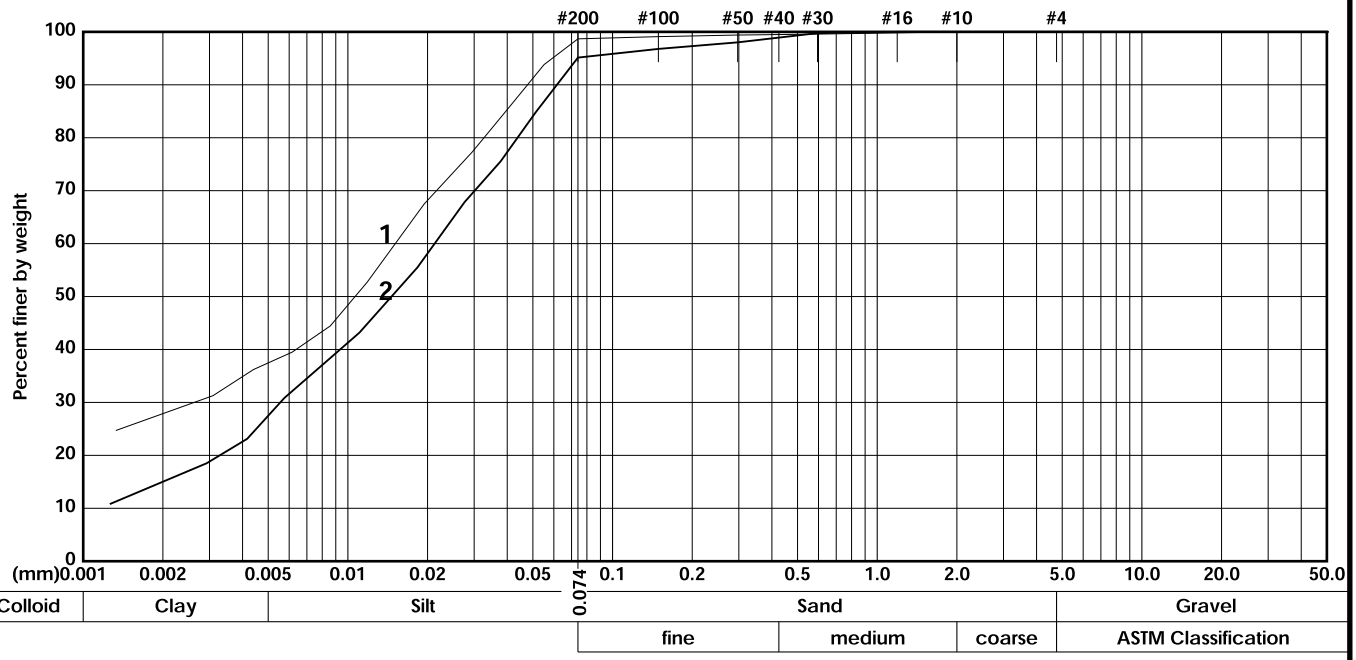
Bor Hole No	Depth in meter	Sample Type	Specific Gravity	Density		Water Content	Atterberg limits			Liquidity Index	Void Ratio	Porosity	Degree of Saturation	% finer by weight passing no 200 sieve	USCS	
				Wet density	Dry density		Liquid Limit	Plastic Limit	Plasticity Index						Group Name/Soil Description	Group Symbol
-	-	-	G_s	γ_m t/m^3	γ_d t/m^3	w_n %	wL %	wP %	IP %	IL -	e -	n %	Sr %			
B-17	01.70 - 02.00	US	2.59	1.63	1.08	51.0	79.5	30.4	49.1	0.42	1.40	58	94	98	Fat Clay	CH
	03.70 - 04.00	US	2.61	1.44	0.81	77.8	96.8	32.2	64.6	0.71	2.22	69	91	70	Sandy Fat Clay	CH
	05.70 - 06.00	US	2.21	1.16	0.36	222.9	259.0	79.2	179.8	0.80	5.14	84	96	51	Sandy Organic Clay	OH
	07.70 - 08.00	DS	2.28	1.25	0.45	178.4	183.0	39.9	143.1	0.97	4.07	80	100	99	Organic Clay	OH
	09.70 - 10.00	DS	2.30	1.16	0.36	222.5	210.8	40.7	170.1	1.07	5.39	84	95	99	Organic Clay	OH
	11.70 - 12.00	US	2.71	1.45	0.82	76.5	49.0	32.6	16.4	2.68	2.30	70	90	25	Silty Sand	SM
	13.70 - 14.00	DS	2.50	1.39	0.65	113.8	109.6	41.0	68.6	1.06	2.85	74	100	98	Fat Clay	CH
	15.70 - 16.00	DS	2.48	1.29	0.49	163.8	172.2	39.9	132.3	0.94	4.06	80	100	97	Fat Clay	CH
	17.70 - 18.00	US	2.69	1.53	0.90	69.5	82.0	29.3	52.7	0.76	1.99	67	94	59	Sandy Fat Clay	CH
	19.70 - 20.00	US	2.60	1.49	0.94	58.3	88.5	32.8	55.7	0.46	1.77	64	86	68	Sandy Fat Clay	CH
	21.70 - 22.00	DS	2.70	1.37	0.71	93.6	118.8	31.4	87.4	0.71	2.80	74	90	83	Fat Clay with Sand	CH
	23.70 - 24.00	DS	2.25	1.22	0.43	183.5	231.5	41.8	189.7	0.75	4.23	81	98	100	Fat Clay	CH
	25.70 - 26.00	DS	2.76	1.58	0.97	62.8	74.6	37.9	36.7	0.68	1.85	65	94	32	Silty Sand	SM
	27.70 - 28.00	DS	2.73	1.59	0.93	70.9	93.4	38.7	54.7	0.59	1.94	66	100	43	Clayey Sand	SC
	29.70 - 30.00	DS	2.75	1.55	1.14	35.7	Non Plastic			-	1.41	59	70	26	Silty Sand	SM
	31.70 - 32.00	DS	2.83	1.78	1.48	20.2	Non Plastic			-	0.91	48	63	34	Silty Sand	SM
	33.70 - 34.00	DS	2.57	1.73	1.21	42.8	Non Plastic			-	1.12	53	98	52	Sandy Silt	ML
	35.70 - 36.00	DS	2.56	1.81	1.45	24.8	Non Plastic			-	0.77	43	83	27	Silty Sand	SM
	37.70 - 38.00	DS	2.54	1.71	1.33	28.3	Non Plastic			-	0.91	48	79	34	Silty Sand	SM
	39.70 - 40.00	DS	2.66	1.82	1.36	33.8	Non Plastic			-	0.96	49	94	27	Silty Sand	SM
	41.70 - 42.00	DS	2.66	1.85	1.37	35.4	Non Plastic			-	0.94	48	100	24	Silty Sand	SM
	43.70 - 44.00	DS	2.81	1.76	1.19	48.1	80.1	24.7	55.4	0.42	1.36	58	99	95	Fat Clay	CH
	45.70 - 46.00	DS	2.90	1.74	1.15	51.4	92.6	37.7	54.9	0.25	1.52	60	98	93	Fat Clay	CH
	47.70 - 48.00	DS	2.72	1.71	1.13	51.7	105.8	30.7	75.1	0.28	1.41	58	100	99	Fat Clay	CH
	49.70 - 50.00	DS	2.72	1.74	1.20	44.6	78.3	27.9	50.4	0.33	1.27	56	96	92	Fat Clay	CH

P.T. SOILENS

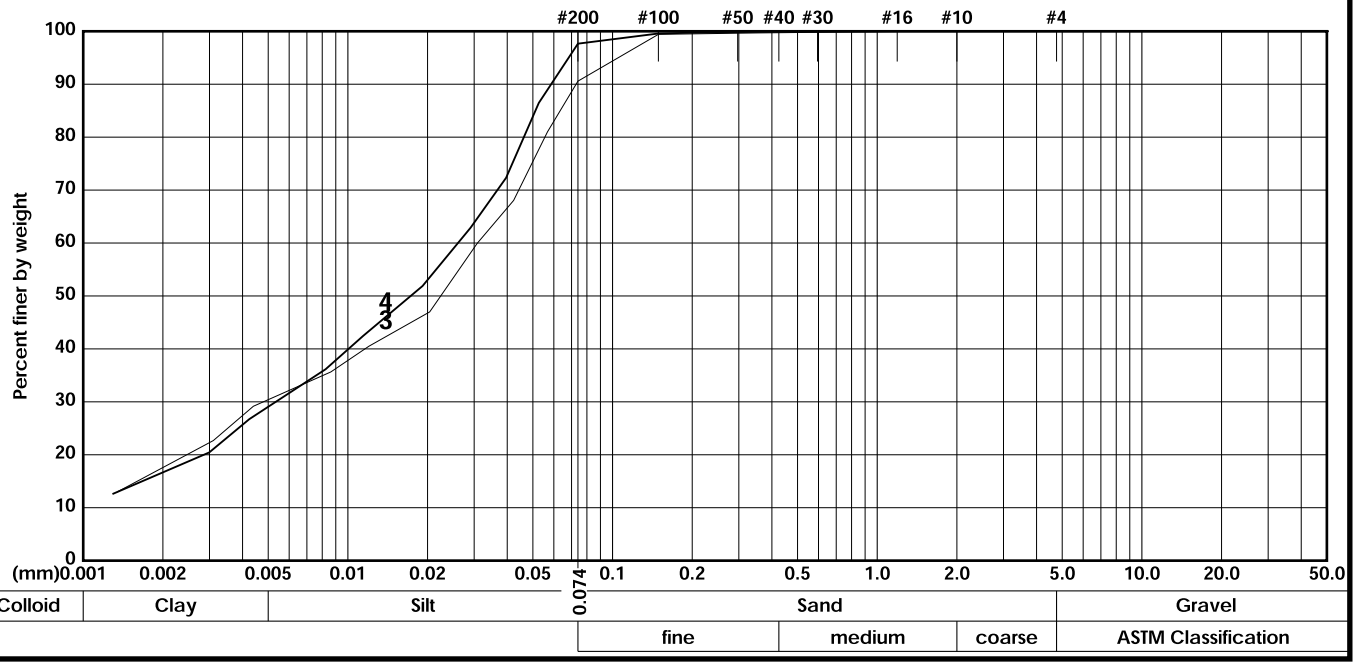
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: JL.INSPEKSI TARUM BARAT KALI MALANG	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-1	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	1%	62%	37%	.015	.003				99
2	5.70 - 6.00	-	0%	5%	68%	27%	.021	.006				95



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
3	11.70 - 12.00	-	0%	9%	61%	30%	.031	.005				91
4	13.70 - 14.00	-	0%	2%	69%	29%	.026	.005				98



B01.TXT - AvantGarde-Demi

Plate

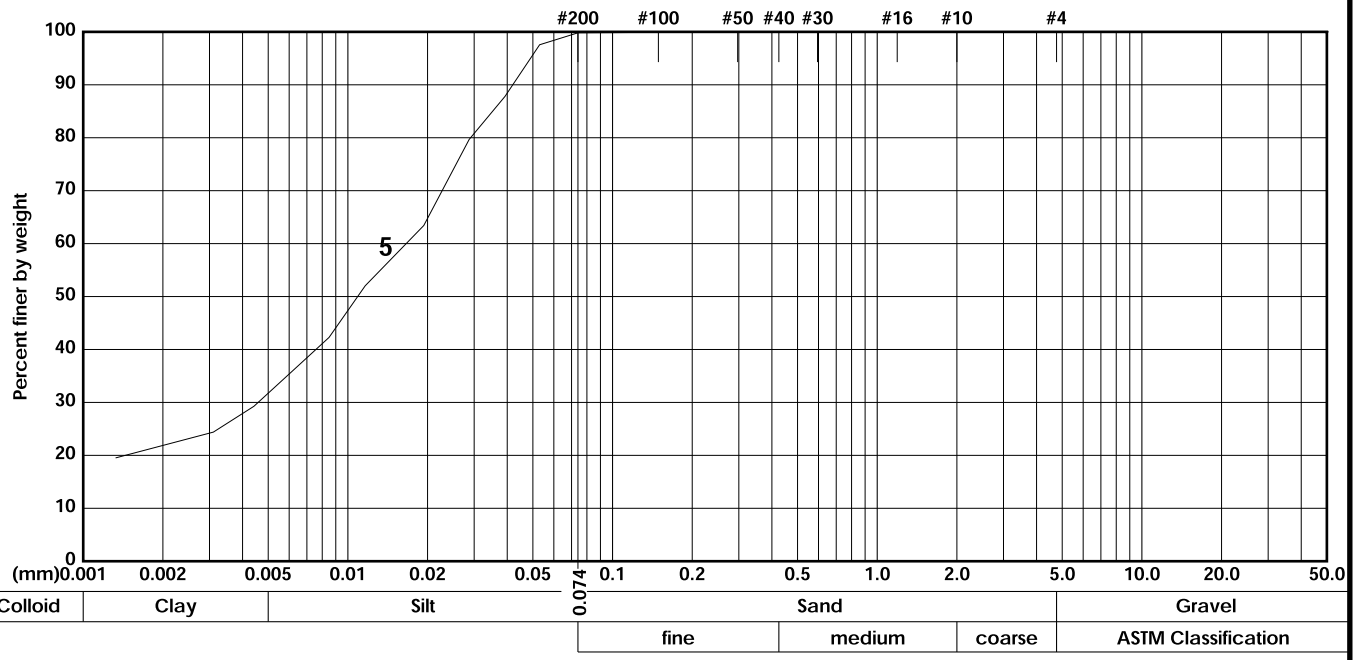
APPENDIX B.2.1

P.T. SOILENS

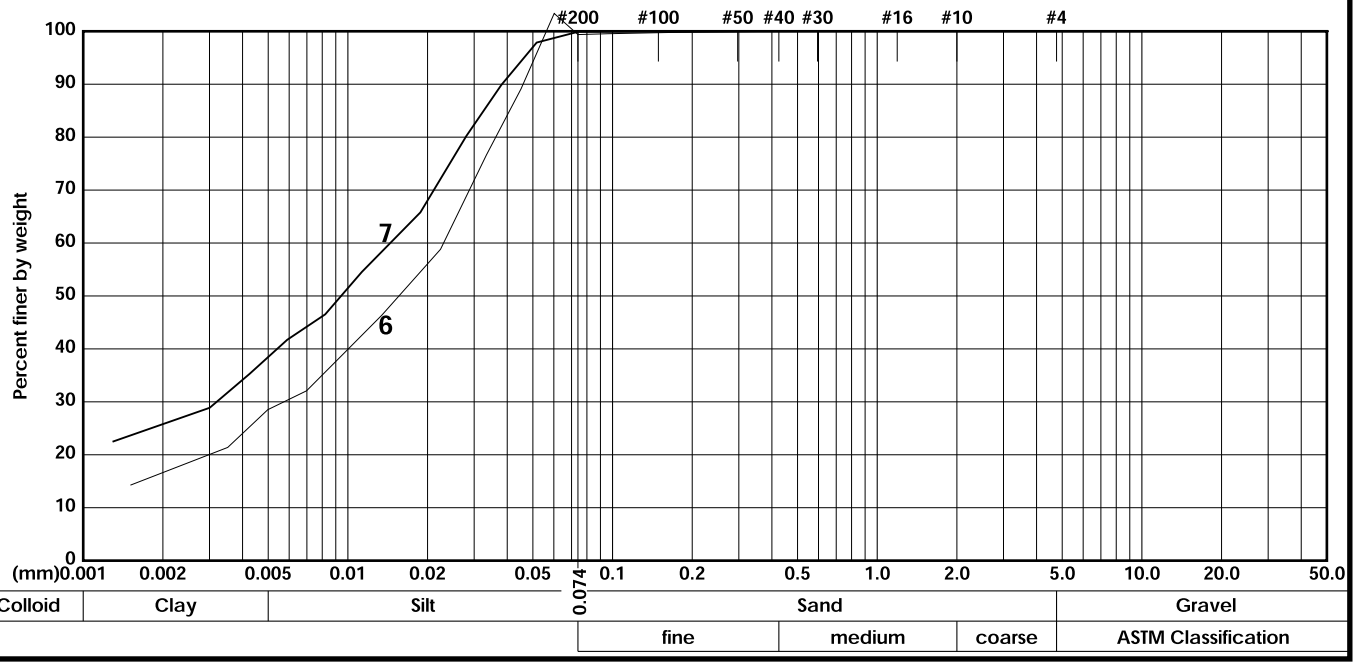
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 9,2014
LOCATION	: JL.INSPEKSI TARUM BARAT KALI MALANG	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-1	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
5	15.70 - 16.00	-	0%	0%	68%	32%	.017	.005				100



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
6	17.70 - 18.00	-	0%	1%	70%	29%	.023	.006				99
7	19.70 - 20.00	-	0%	0%	62%	38%	.014	.003				100



B01A.TXT - AvantGarde-Demi

Plate

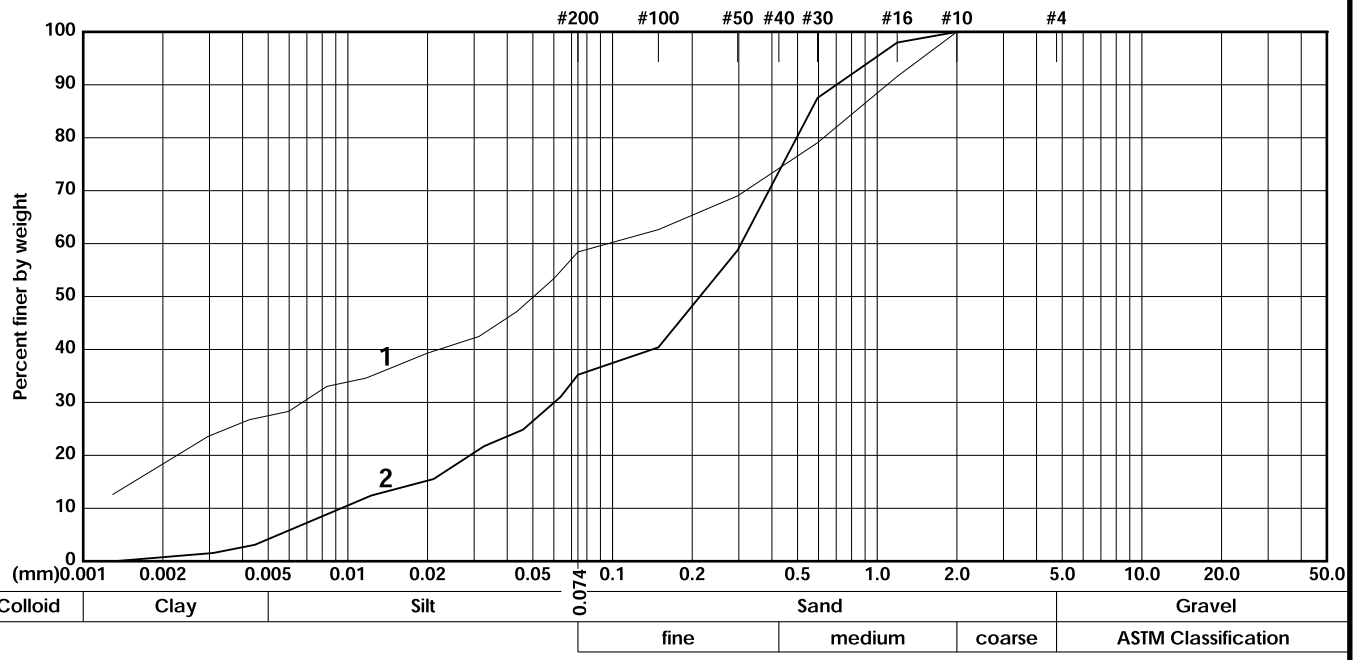
APPENDIX B.2.2

P.T. SOILENS

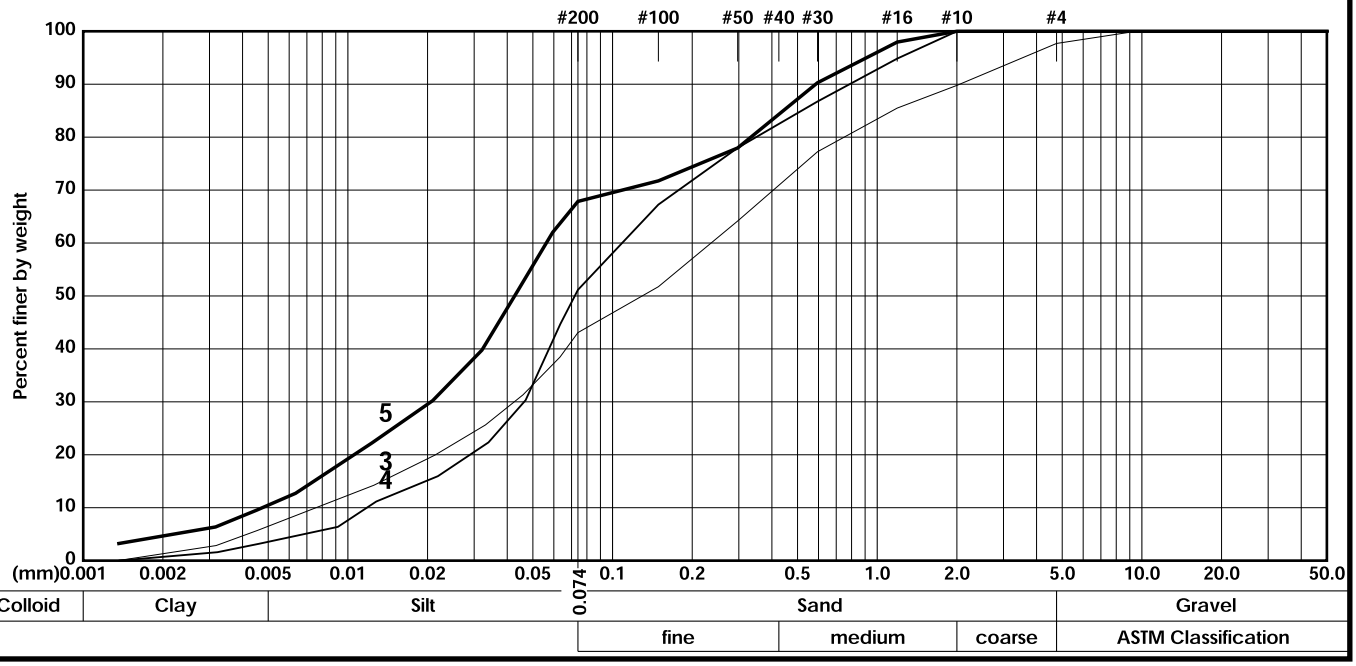
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 3,2014
LOCATION	: JL.INSPEKSI TARUM BARAT KALI MALANG-JAKTIM	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-2	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	42%	31%	27%	.096	.007				58
2	3.70 - 4.00	-	0%	65%	31%	4%	.306	.06	.009	32.4	1.3	35



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
3	5.70 - 6.00	-	2%	55%	37%	6%	.236	.043	.008	31.1	1	43
4	7.70 - 8.00	-	0%	49%	48%	4%	.109	.046	.012	9.2	1.7	51
5	9.70 - 10.00	-	0%	32%	58%	10%	.056	.021	.005	11.8	1.6	68



B02.TXT - AvantGarde-Demi

Plate

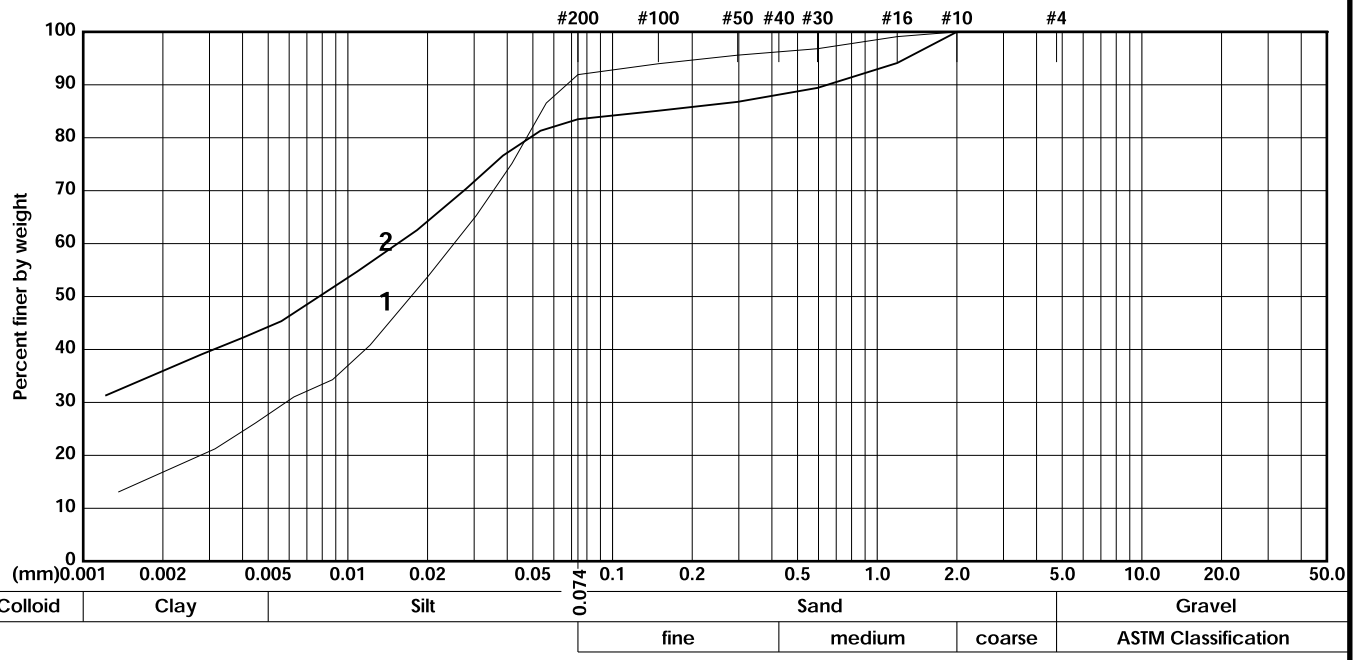
APPENDIX B.2.3

P.T. SOILENS

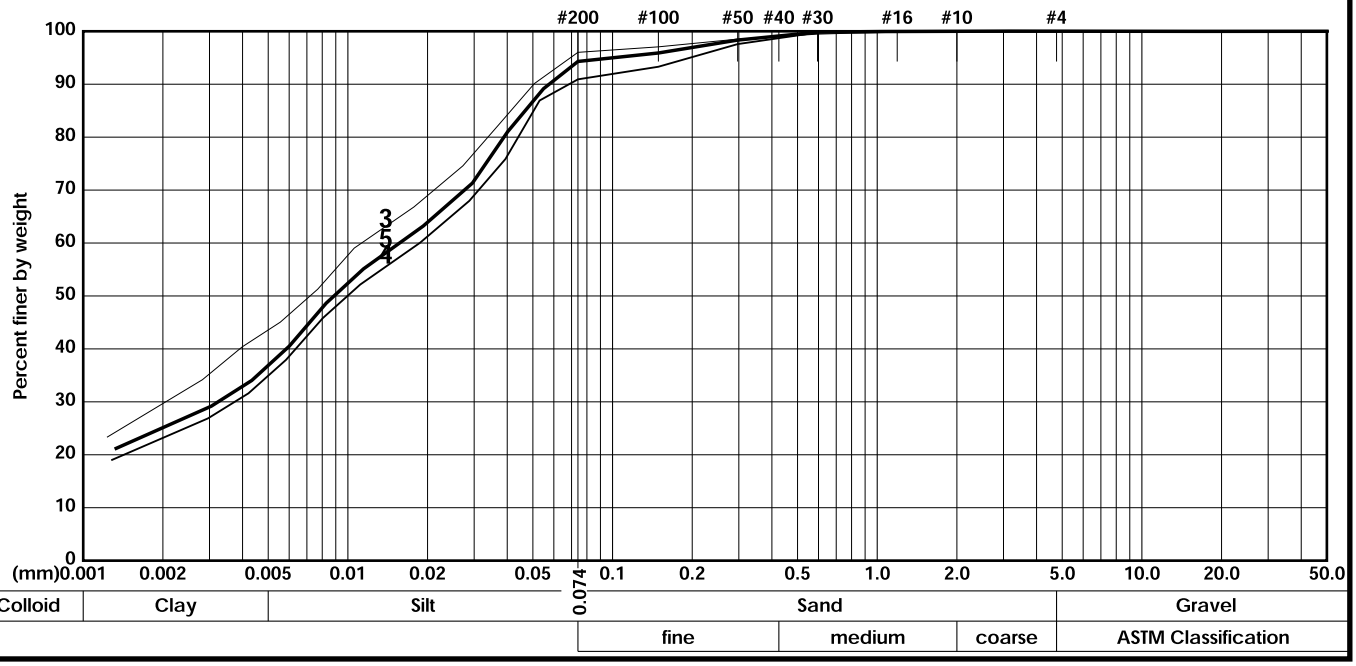
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 3,2014
LOCATION	: Jl. Raya Jati Mulya - Bekasi	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-3	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	8%	64%	28%	.025	.006				92
2	3.70 - 4.00	-	0%	16%	40%	44%	.015					84



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
3	5.70 - 6.00	-	0%	4%	52%	44%	.011	.002				96
4	7.70 - 8.00	-	0%	9%	56%	35%	.019	.004				91
5	9.70 - 10.00	-	0%	6%	57%	37%	.016	.003				94



B03.TXT - AvantGarde-Demi

Plate

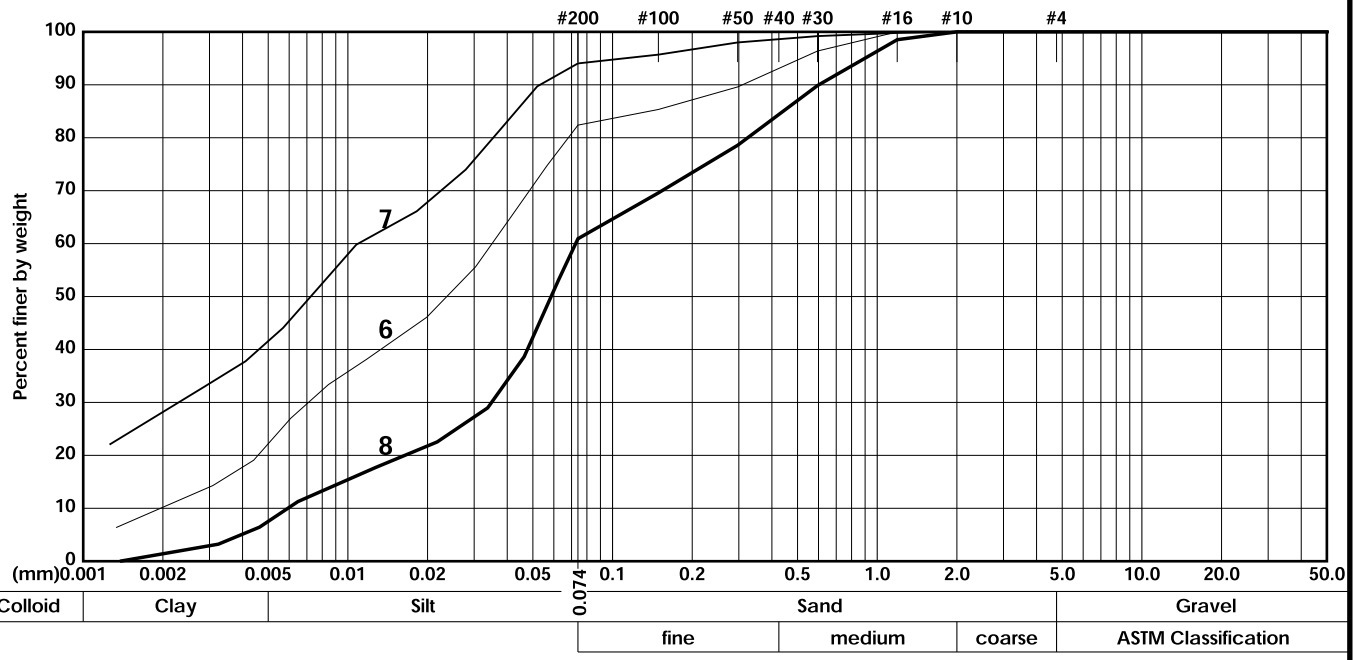
APPENDIX B.2.4

P.T. SOILENS

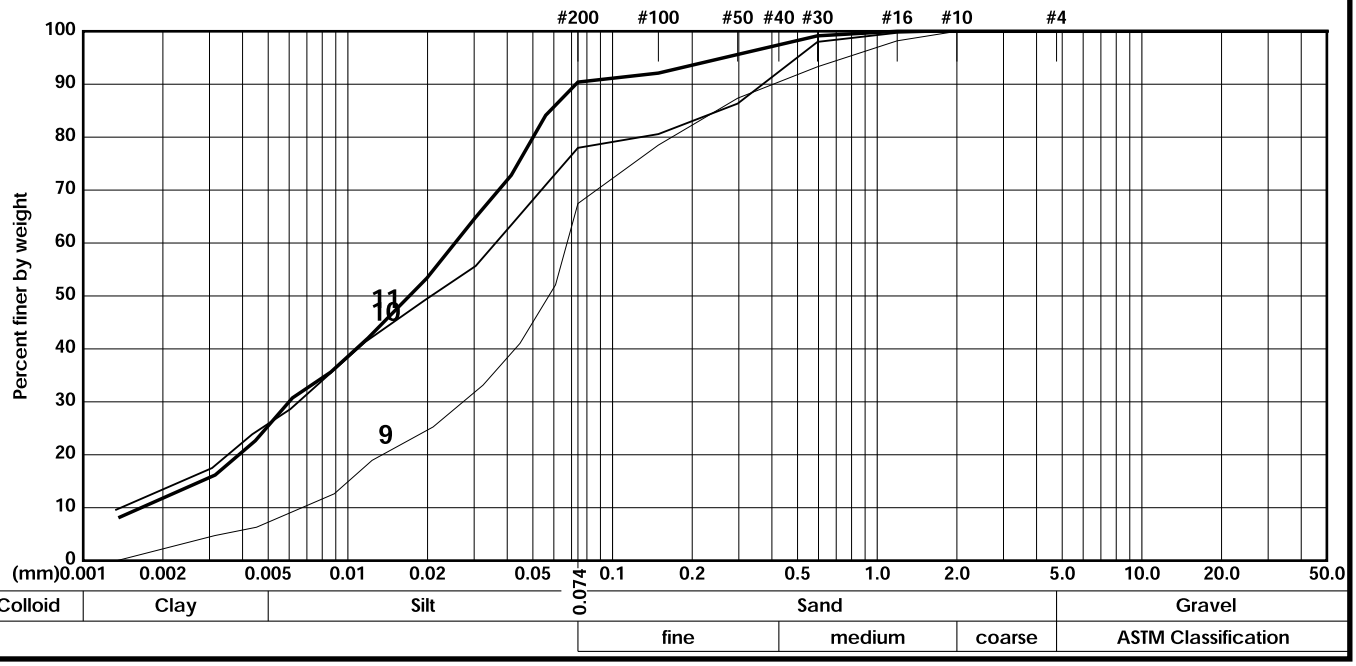
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 3,2014
LOCATION	: Jl. Raya Jati Mulya - Bekasi	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-3	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
6	10.70 - 11.00	-	0%	18%	60%	22%	.035	.007	.002	17.9	.7	82
7	11.70 - 12.00	-	0%	6%	52%	42%	.011	.002				94
8	13.70 - 14.00	-	0%	39%	53%	8%	.073	.035	.006	12.2	2.8	61



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
9	15.70 - 16.00	-	0%	33%	60%	7%	.067	.027	.007	10	1.6	67
10	17.70 - 18.00	-	0%	22%	52%	26%	.036	.007	.001	26.1	.8	78
11	19.70 - 20.00	-	0%	10%	65%	25%	.025	.006	.002	15.3	.9	90



B03A.TXT - AvantGarde-Demi

Plate

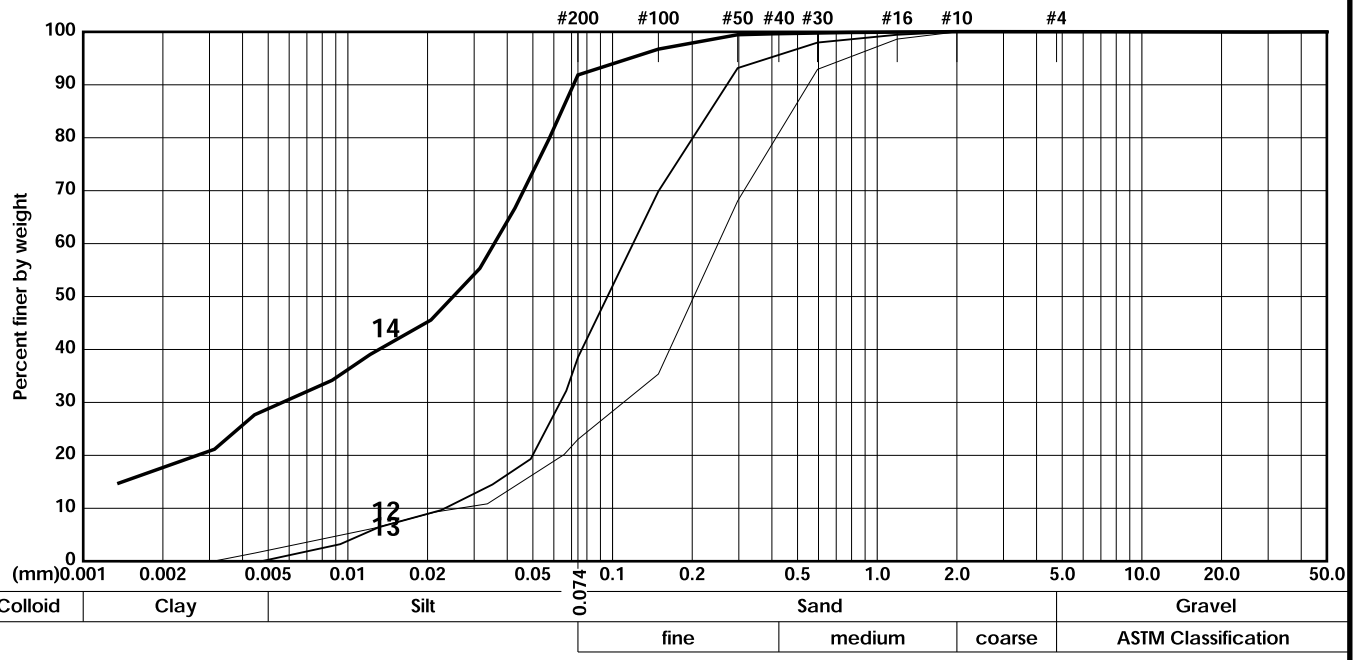
APPENDIX B.2.5

P.T. SOILENS

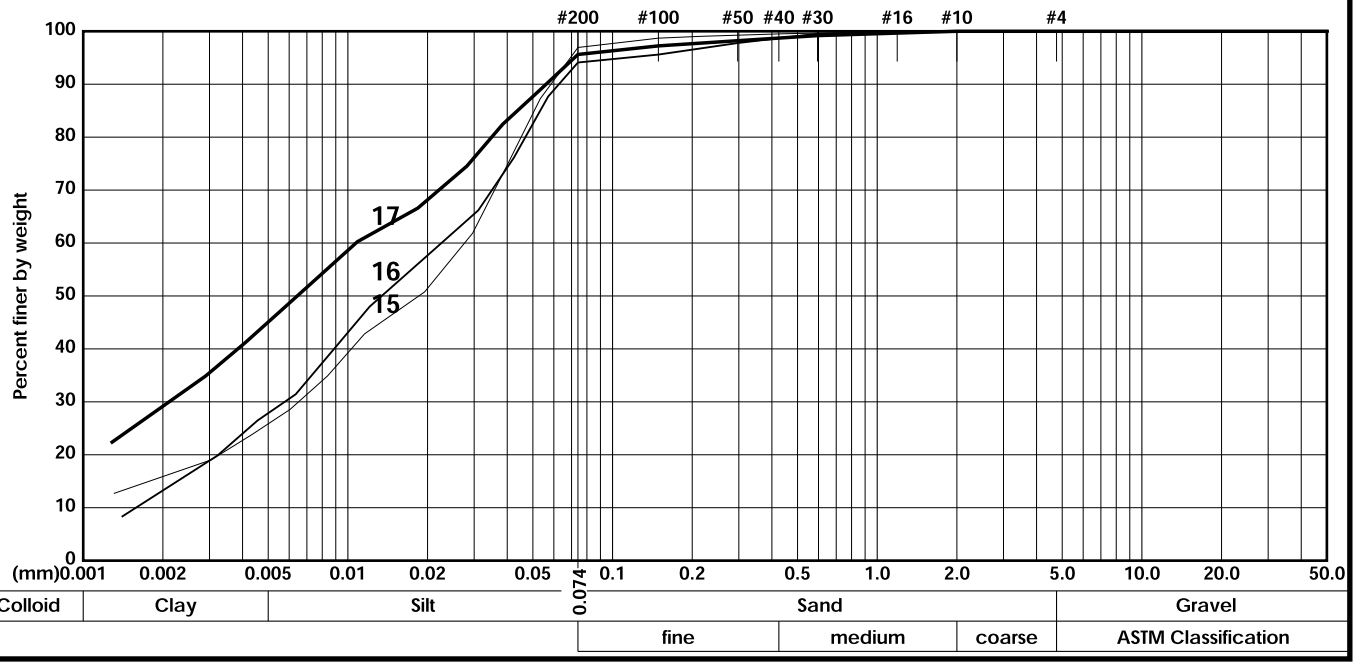
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 3,2014
LOCATION	: Jl. Raya Jati Mulya - Bekasi	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-3	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
12	21.70 - 22.00	-	0%	77%	21%	2%	.251	.11	.026	9.5	1.8	23
13	23.70 - 24.00	-	0%	61%	39%	0%	.12	.063	.023	5.1	1.4	39
14	24.70 - 25.00	-	0%	8%	63%	29%	.036	.006				92



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
15	31.70 - 32.00	-	0%	3%	71%	26%	.028	.007				97
16	33.70 - 34.00	-	0%	6%	66%	28%	.023	.006	.002	14.3	.9	94
17	35.70 - 36.00	-	0%	4%	51%	45%	.011	.002				96



B03B.TXT - AvantGarde-Demi

Plate

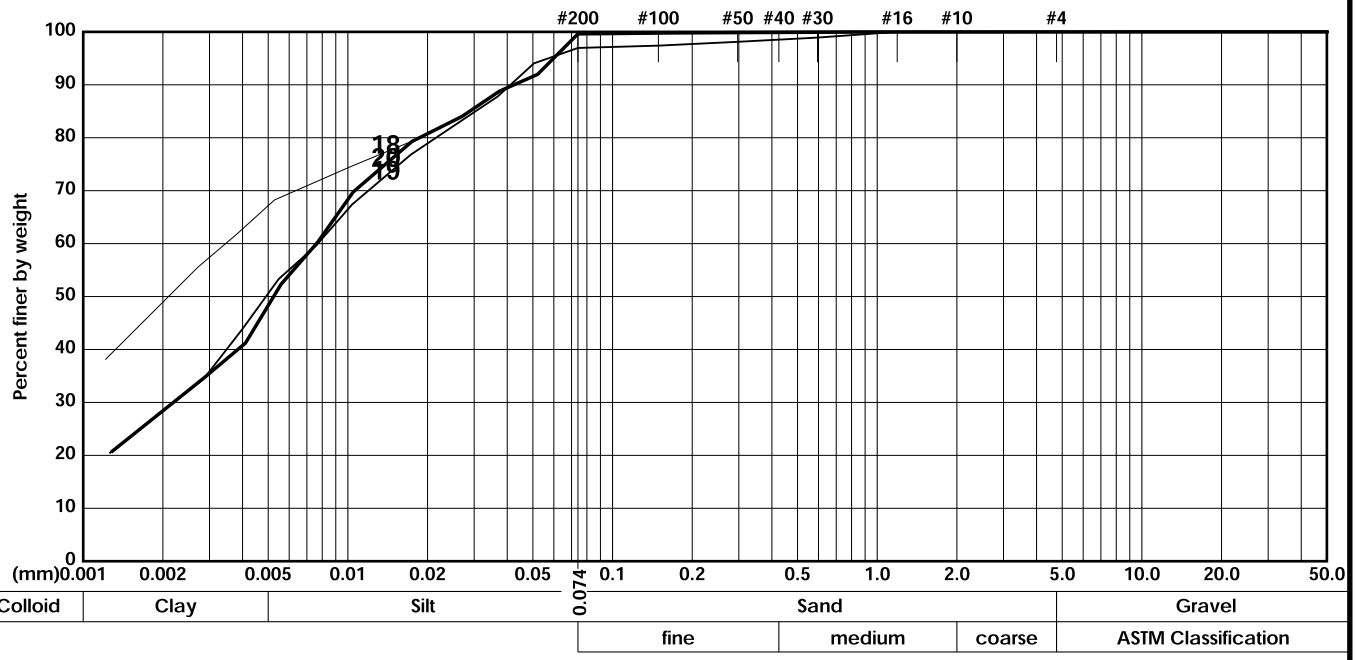
APPENDIX B.2.6

P.T. SOILENS

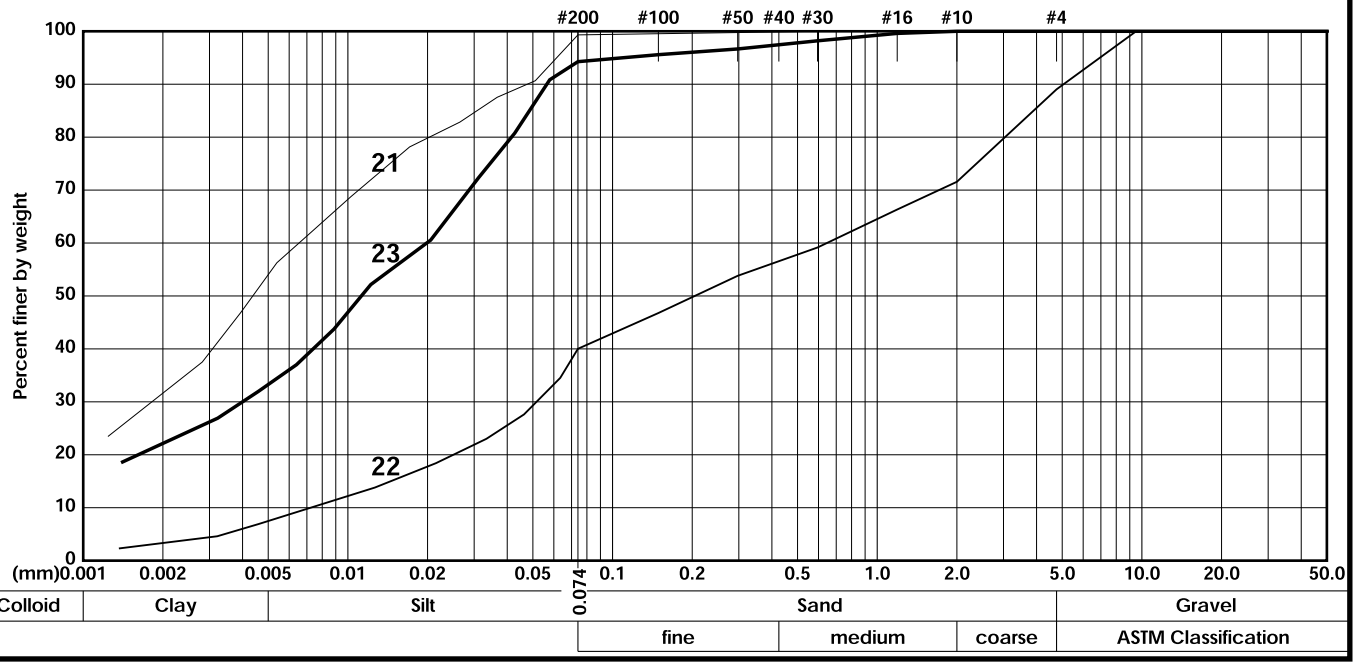
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 3,2014
LOCATION	: Jl. Raya Jati Mulya - Bekasi	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-3	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
18	37.70 - 38.00	-	0%	0%	33%	67%	.003					100
19	39.70 - 40.00	-	0%	3%	46%	51%	.008	.002				97
20	41.70 - 42.00	-	0%	0%	52%	48%	.008	.002				100



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
21	43.70 - 44.00	-	0%	1%	45%	54%	.007	.002				99
22	47.70 - 48.00	-	11%	49%	33%	7%	.645	.052	.007	89.2	.6	40
23	49.70 - 50.00	-	0%	6%	61%	33%	.02	.004				94



B03C.TXT - AvantGarde-Demi

Plate

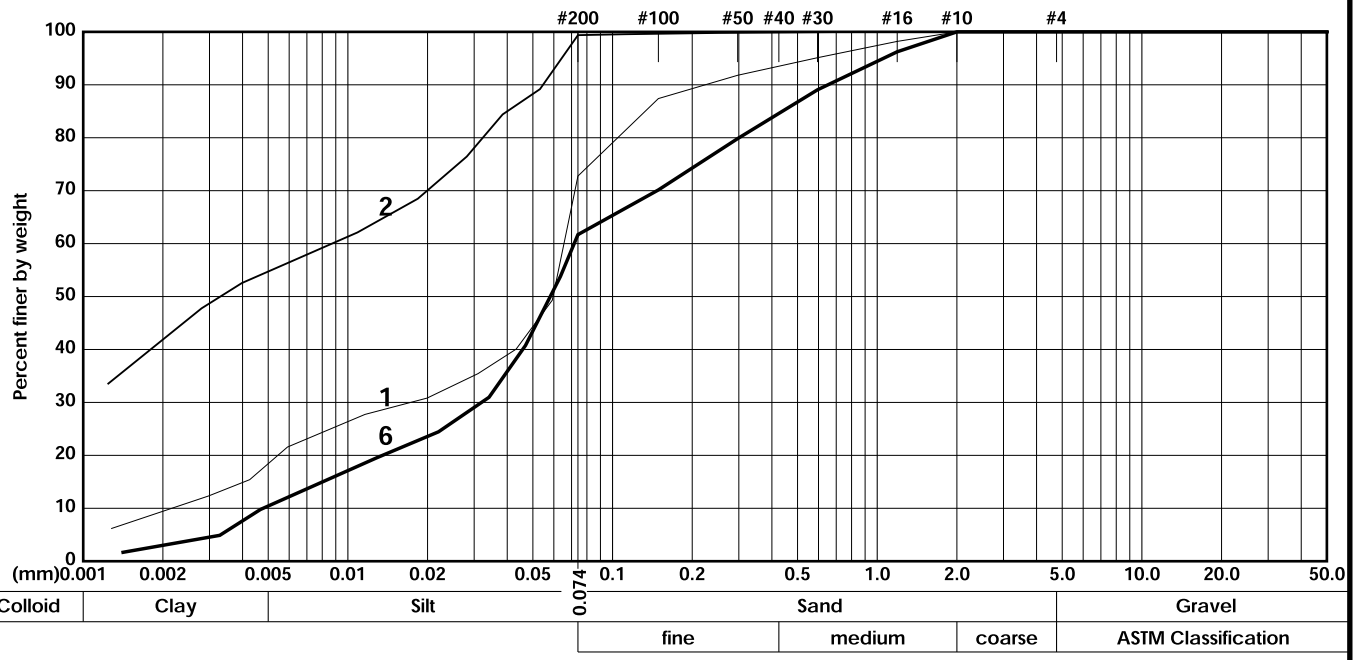
APPENDIX B.2.7

P.T. SOILENS

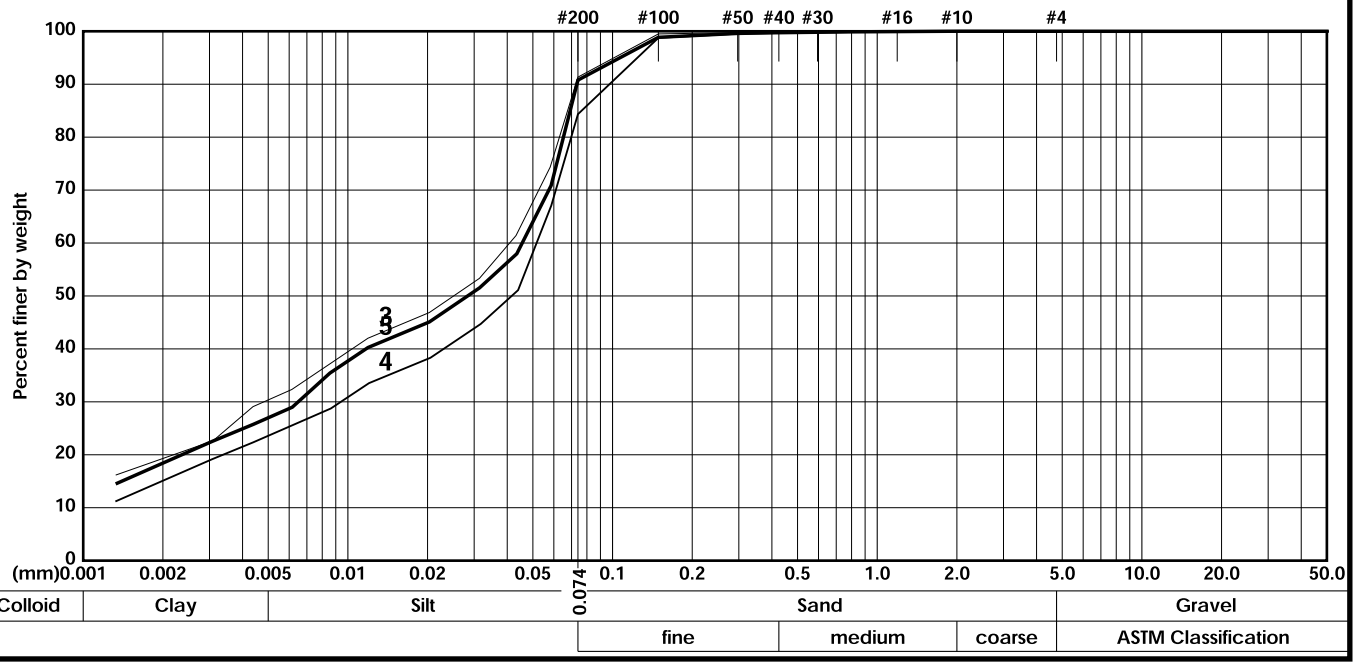
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Jl. KH. Ahmad, Gandasari-Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-4	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	27%	55%	18%	.066	.017	.002	30.3	2.1	73
2	3.70 - 4.00	-	0%	1%	44%	55%	.009					99
6	11.70 - 12.00	-	0%	38%	52%	10%	.072	.032	.005	15	3	62



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
3	5.70 - 6.00	-	0%	9%	61%	30%	.041	.005				91
4	7.70 - 8.00	-	0%	16%	60%	24%	.052	.009				84
5	9.70 - 10.00	-	0%	9%	64%	27%	.046	.006				91



B04.TXT - AvantGarde-Demi

Plate

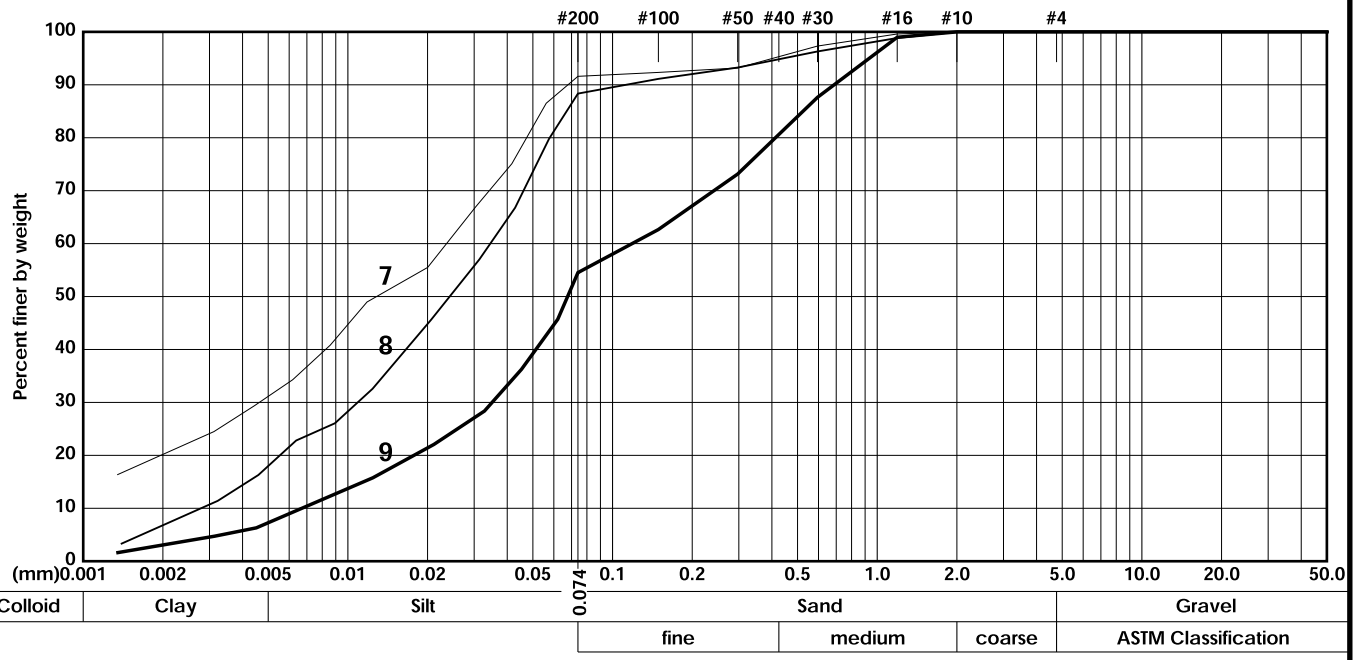
APPENDIX B.2.8

P.T. SOILENS

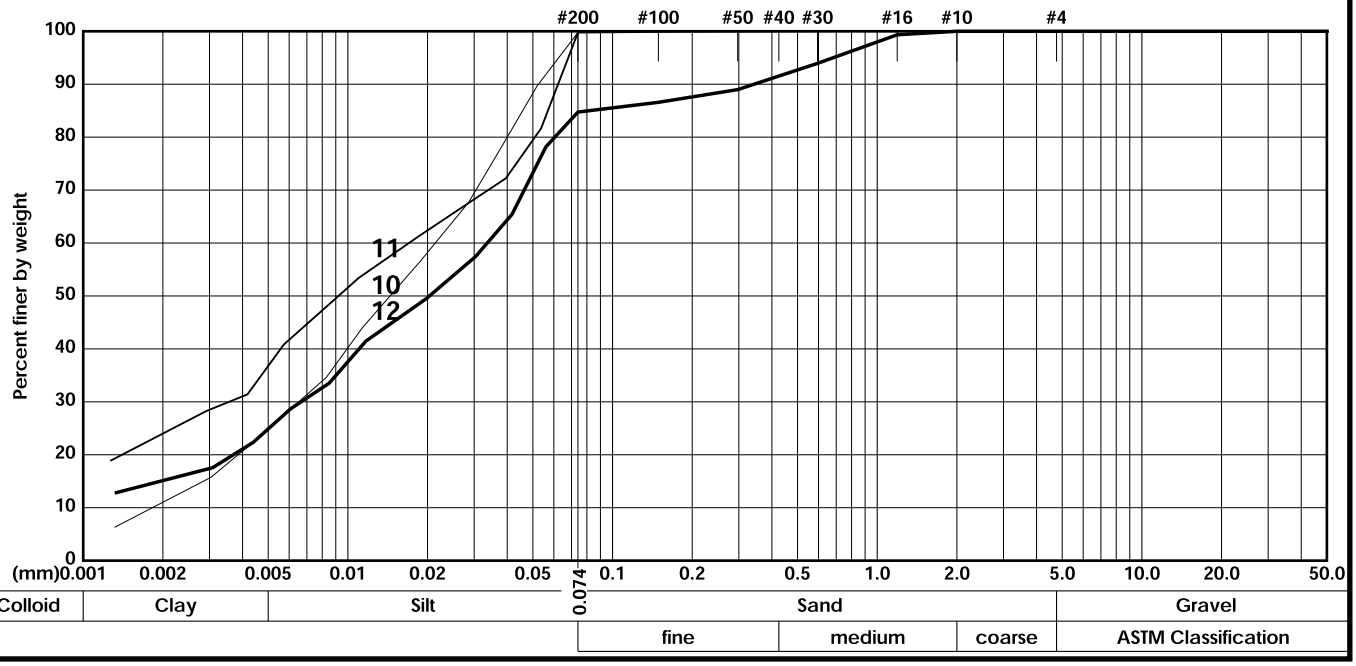
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Jl. KH. Ahmad, Gandasari-Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-4	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
7	13.70 - 14.00	-	0%	8%	61%	31%	.024	.005				92
8	15.70 - 16.00	-	0%	12%	70%	18%	.035	.011	.003	12.4	1.2	88
9	17.70 - 18.00	-	0%	45%	48%	7%	.119	.035	.007	17.7	1.5	55



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
10	19.70 - 20.00	-	0%	0%	75%	25%	.021	.007	.002	11.7	1.1	100
11	21.70 - 22.00	-	0%	0%	63%	37%	.017	.004				100
12	23.70 - 24.00	-	0%	15%	60%	25%	.034	.007				85



B04A.TXT - AvantGarde-Demi

Plate

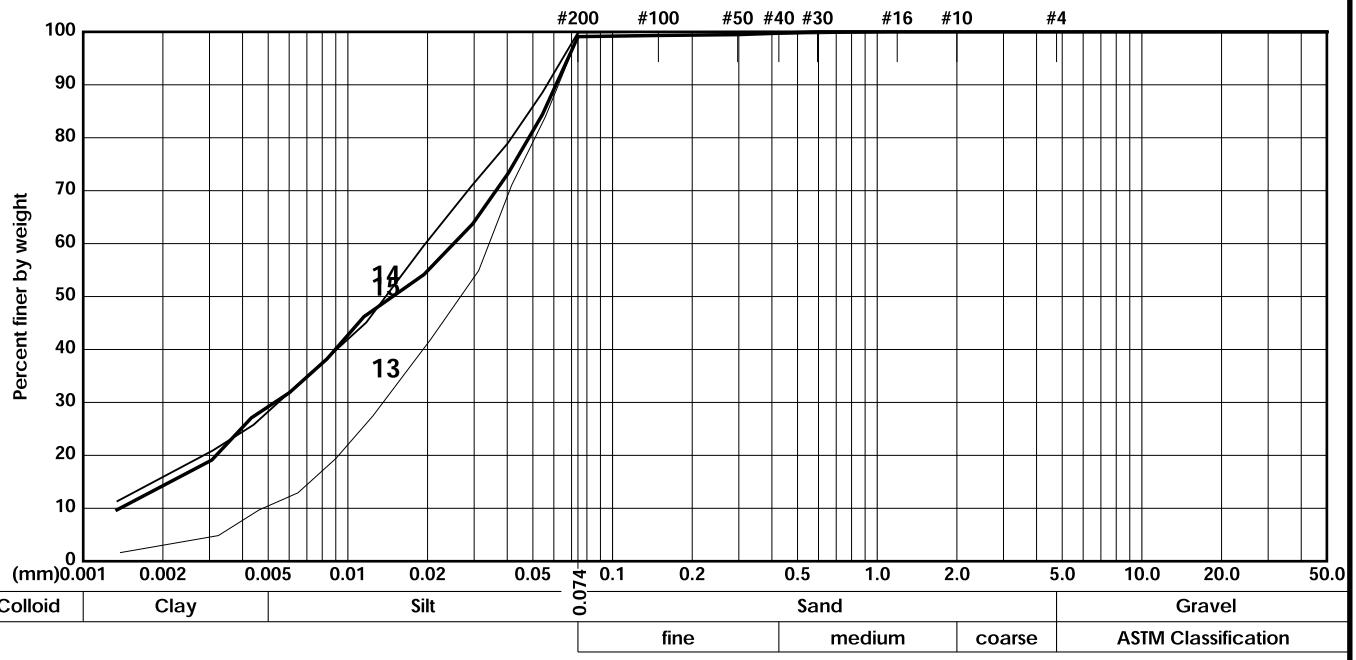
APPENDIX B.2.9

P.T. SOILENS

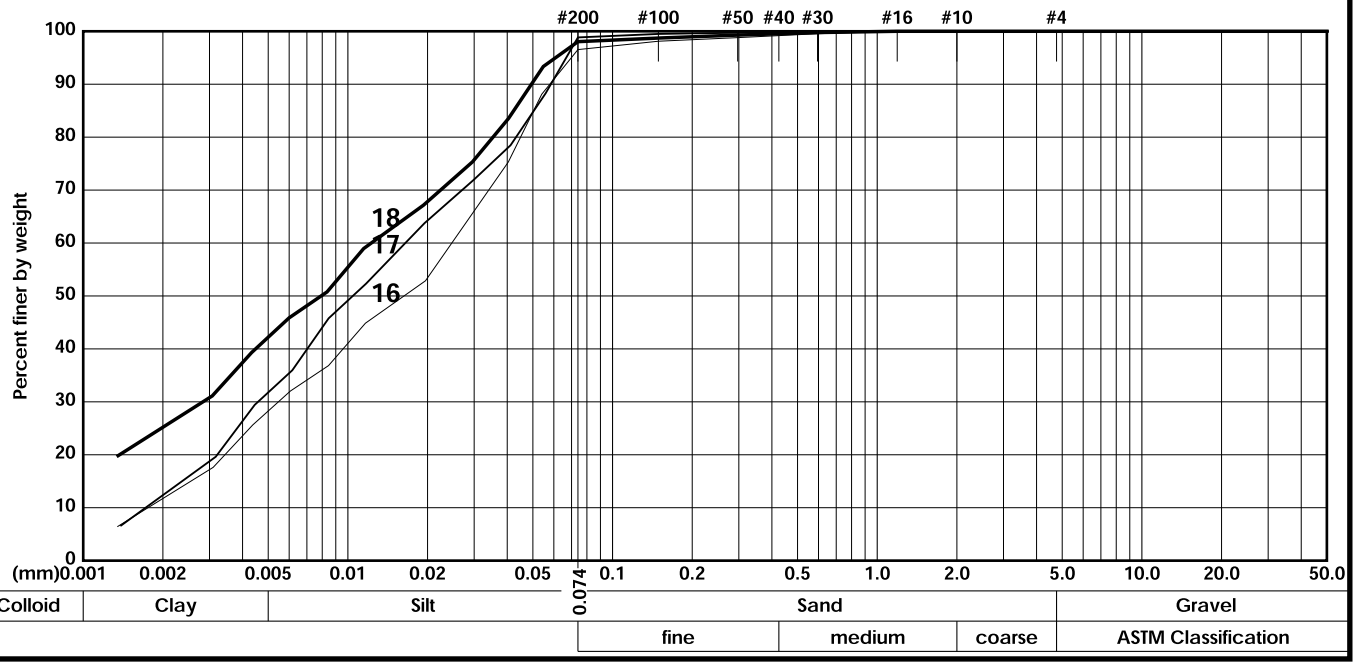
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Jl. KH. Ahmad, Gandasari-Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-4	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
13	25.70 - 26.00	-	0%	1%	89%	10%	.034	.014	.005	7.2	1.1	99
14	27.70 - 28.00	-	0%	0%	72%	28%	.02	.005				100
15	29.70 - 30.00	-	0%	1%	70%	29%	.025	.005	.001	18.2	.8	99



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
16	31.70 - 32.00	-	0%	3%	69%	28%	.025	.005	.002	14.1	.7	97
17	33.70 - 34.00	-	0%	1%	67%	32%	.016	.005	.002	9.6	.7	99
18	35.70 - 26.00	-	0%	2%	56%	42%	.012	.003				98



B04B.TXT - AvantGarde-Demi

Plate

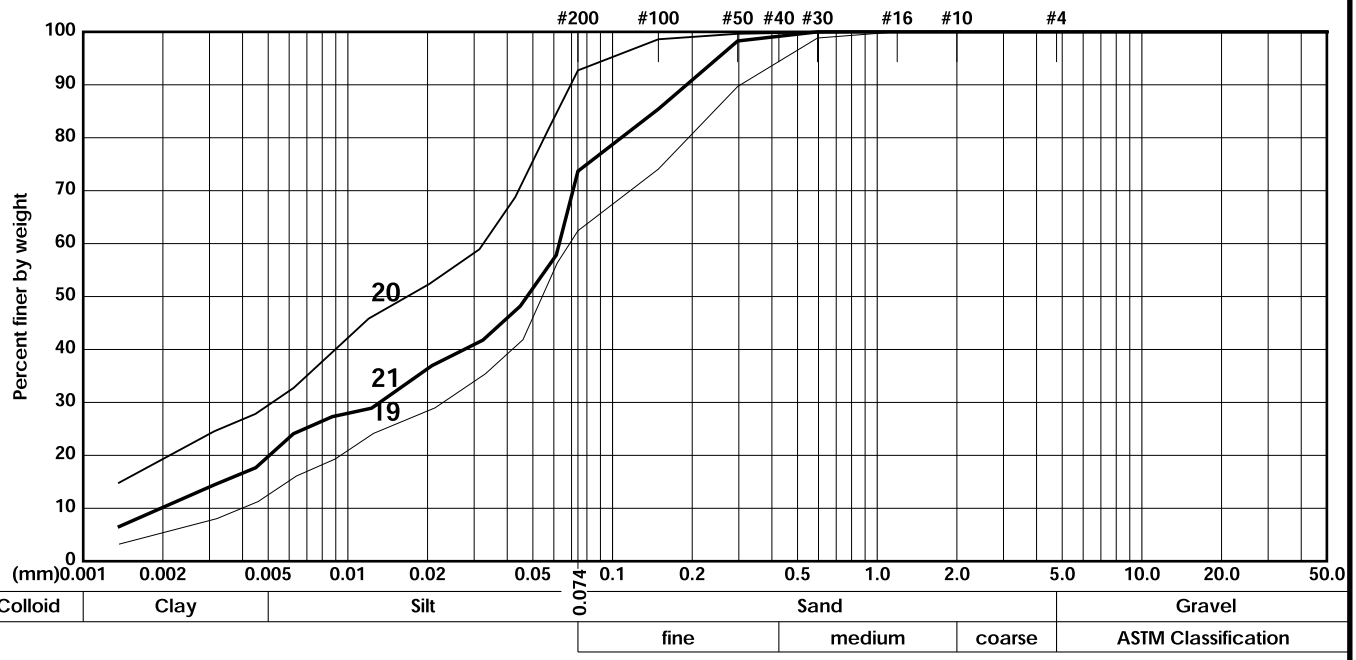
APPENDIX B.2.10

P.T. SOILENS

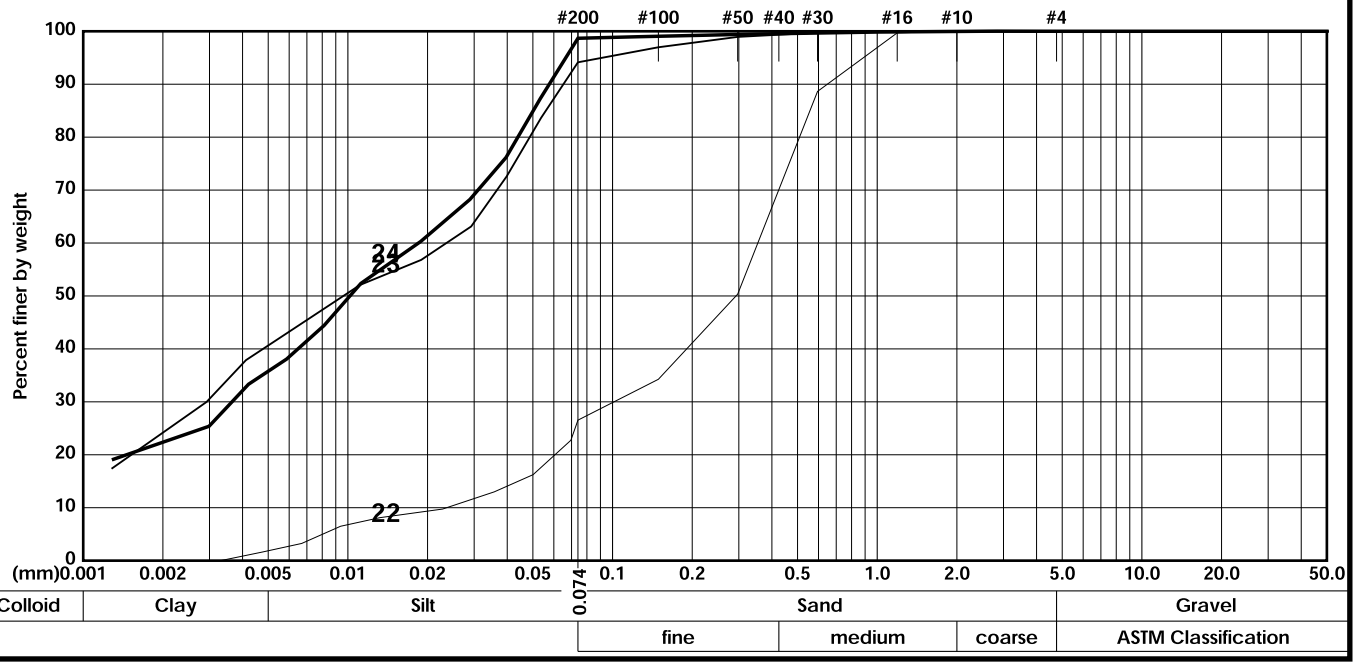
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Jl. KH. Ahmad, Gandasari-Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-4	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
19	37.70 - 38.00	-	0%	38%	49%	13%	.069	.023	.004	17.3	1.9	62
20	39.70 - 40.00	-	0%	7%	64%	29%	.032	.005				93
21	41.70 - 42.00	-	0%	26%	54%	20%	.063	.013	.002	32	1.4	74



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
22	43.70 - 44.00	-	0%	73%	25%	2%	.354	.101	.024	15	1.2	27
23	45.70 - 46.00	-	0%	6%	53%	41%	.024	.003				94
24	47.70 - 48.00	-	0%	1%	63%	36%	.018	.004				99



B04C.TXT - AvantGarde-Demi

Plate

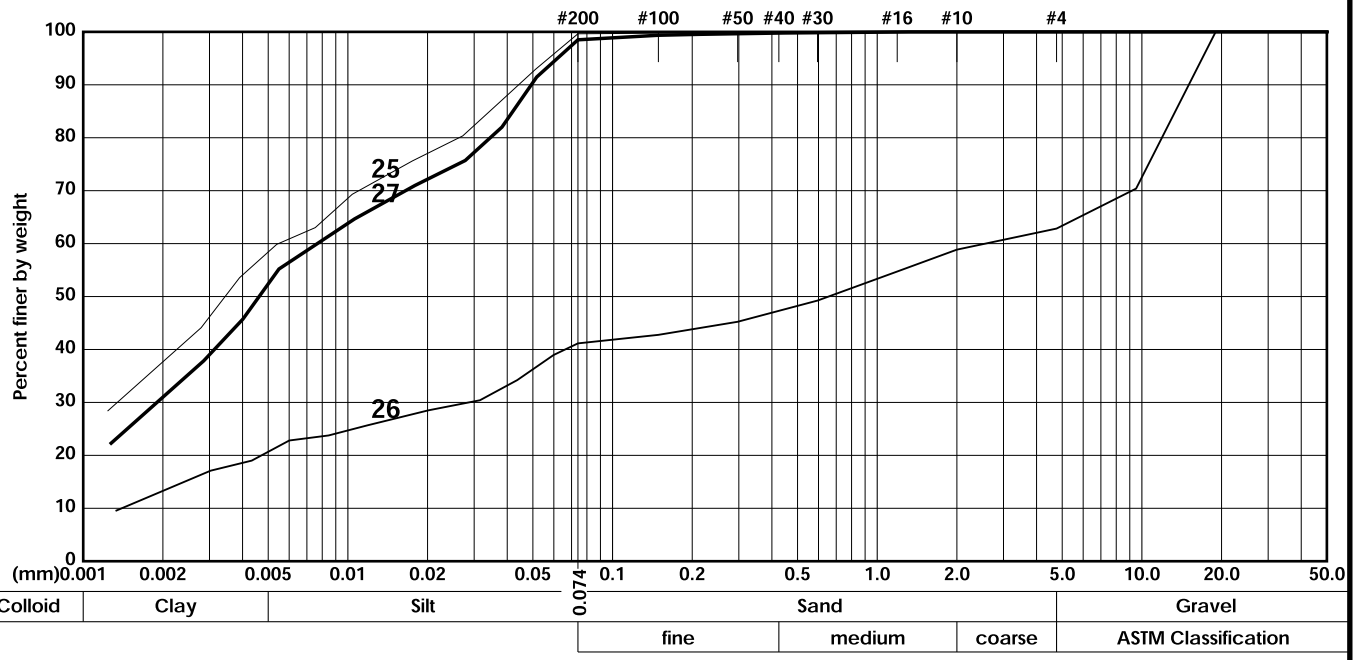
APPENDIX B.2.11

P.T. SOILENS

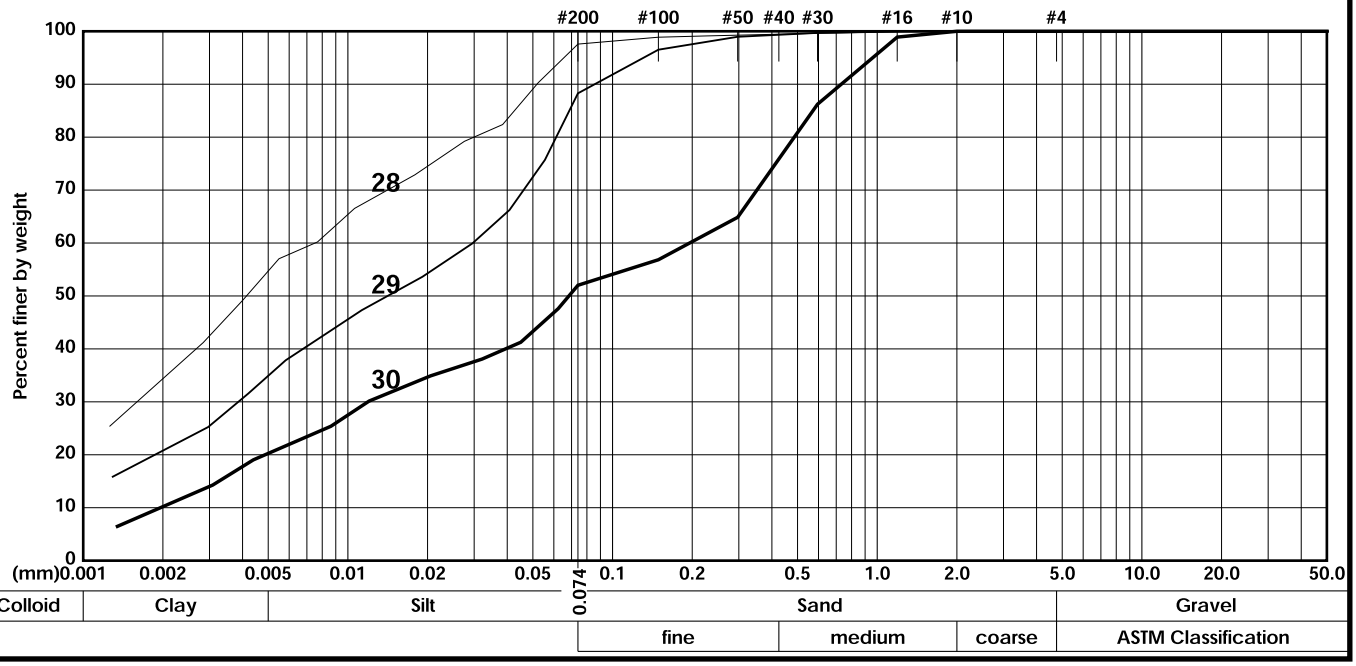
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Jl. KH. Ahmad, Gandasari-Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-4	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
25	49.70 - 50.00	-	0%	0%	42%	58%	.005	.001				100
26	51.70 - 52.00	-	37%	22%	20%	21%	2.563	.029	.001	1833.1	.2	41
27	53.70 - 54.00	-	0%	1%	47%	52%	.008	.002				99



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
28	55.70 - 56.00	-	0%	2%	43%	55%	.008	.002				98
29	57.70 - 58.00	-	0%	12%	53%	35%	.03	.004				88
30	59.70 - 60.00	-	0%	48%	32%	20%	.196	.012	.002	99.9	.4	52



B04D.TXT - AvantGarde-Demi

Plate

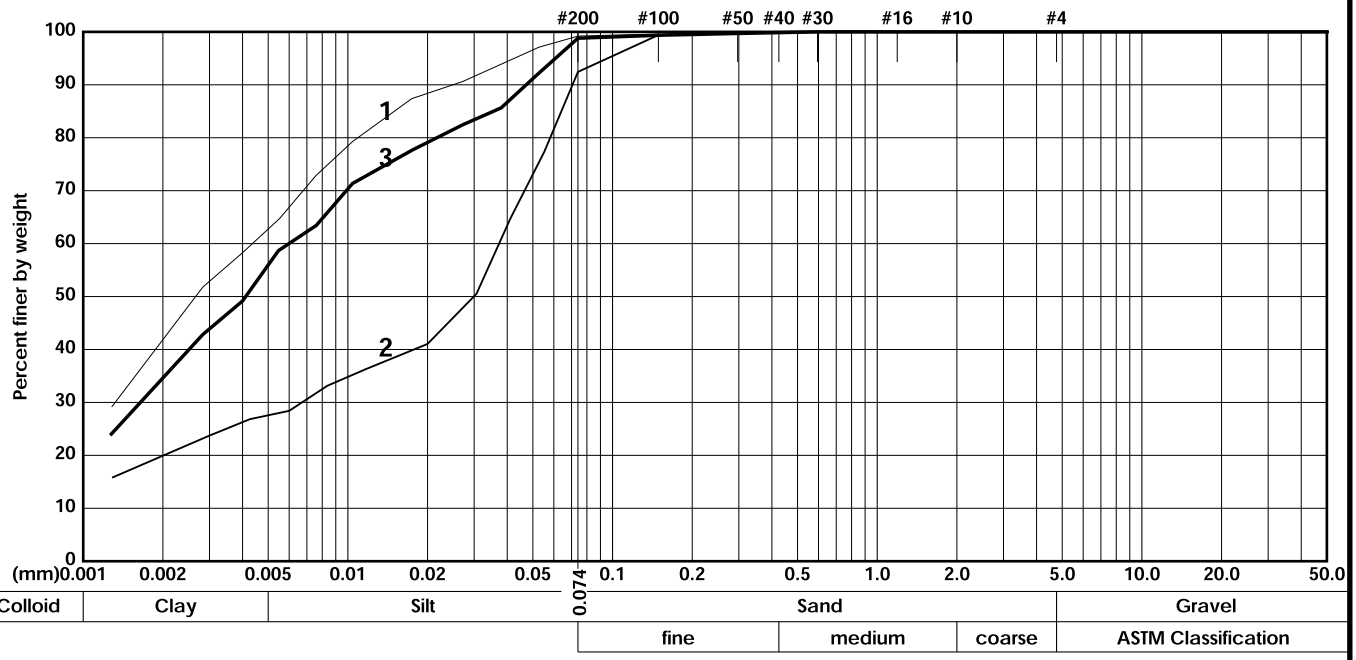
APPENDIX B.2.12

P.T. SOILENS

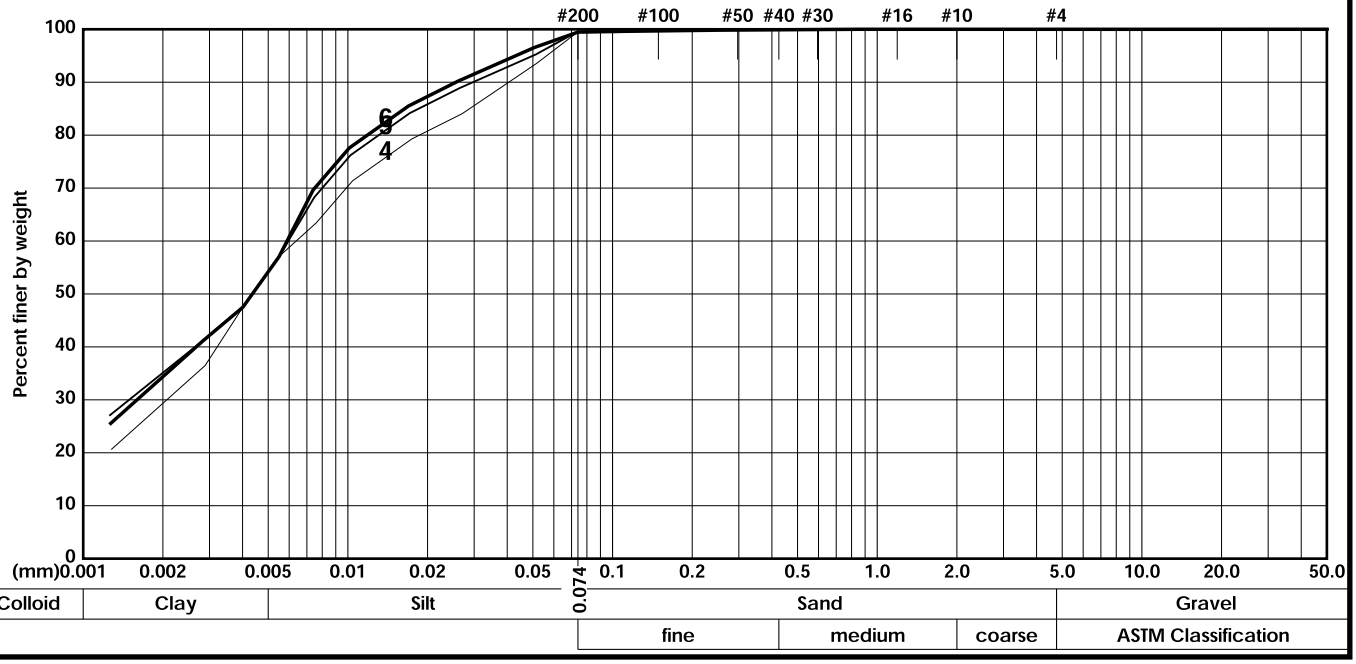
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 5,2014
LOCATION	: Pagaulan, Sukaresmi - Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-5	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	1%	36%	63%	.004	.001				99
2	3.70 - 4.00	-	0%	8%	64%	28%	.037	.007				92
3	5.70 - 6.00	-	0%	1%	43%	56%	.006	.002				99



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
4	7.70 - 8.00	-	0%	0%	46%	54%	.006	.002				100
5	9.70 - 10.00	-	0%	0%	46%	54%	.006	.001				100
6	11.70 - 12.00	-	0%	1%	45%	54%	.006	.002				99



B05.TXT - AvantGarde-Demi

Plate

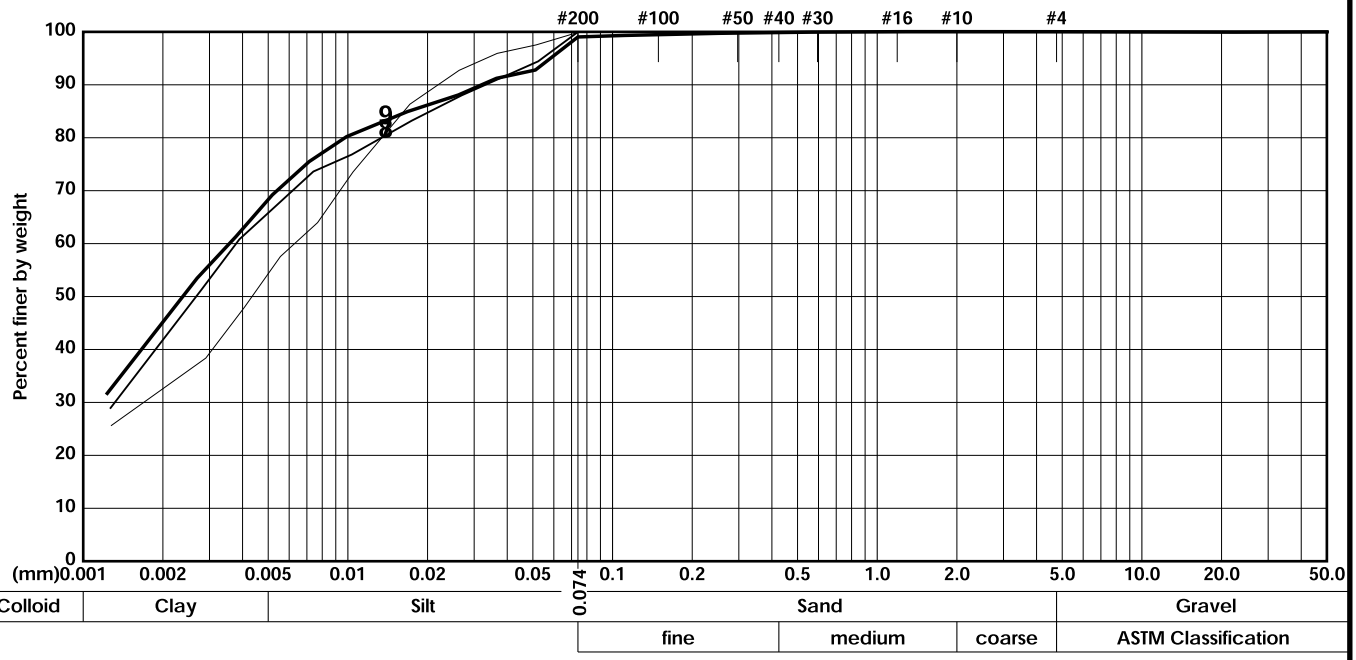
APPENDIX B.2.13

P.T. SOILENS

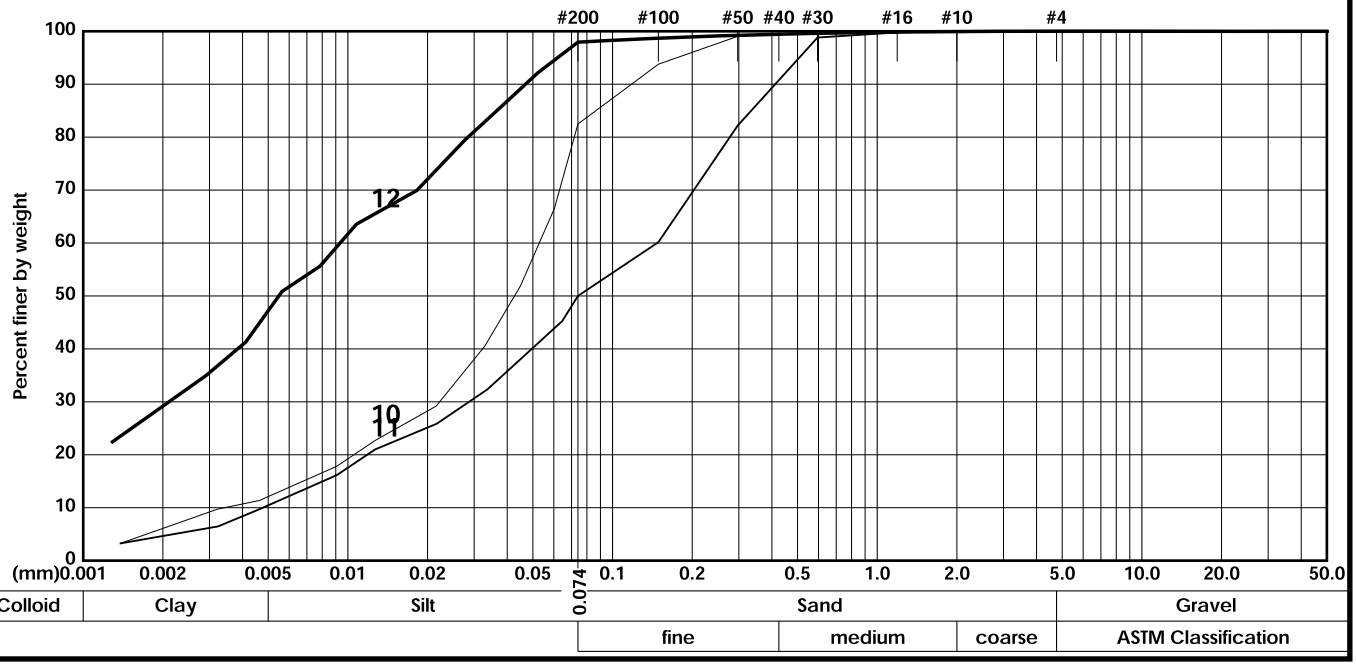
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 5,2014
LOCATION	: Pagaulan, Sukaresmi - Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-5	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
7	13.70 - 14.00	-	0%	0%	46%	54%	.006	.002				100
8	15.70 - 16.00	-	0%	0%	34%	66%	.004	.001				100
9	17.70 - 18.00	-	0%	1%	31%	68%	.004					99



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
10	19.70 - 20.00	-	0%	18%	70%	12%	.053	.022	.003	15.5	2.7	82
11	21.70 - 22.00	-	0%	50%	40%	10%	.147	.029	.005	30.9	1.2	50
12	23.70 - 24.00	-	0%	2%	51%	47%	.009	.002				98



B05A.TXT - AvantGarde-Demi

Plate

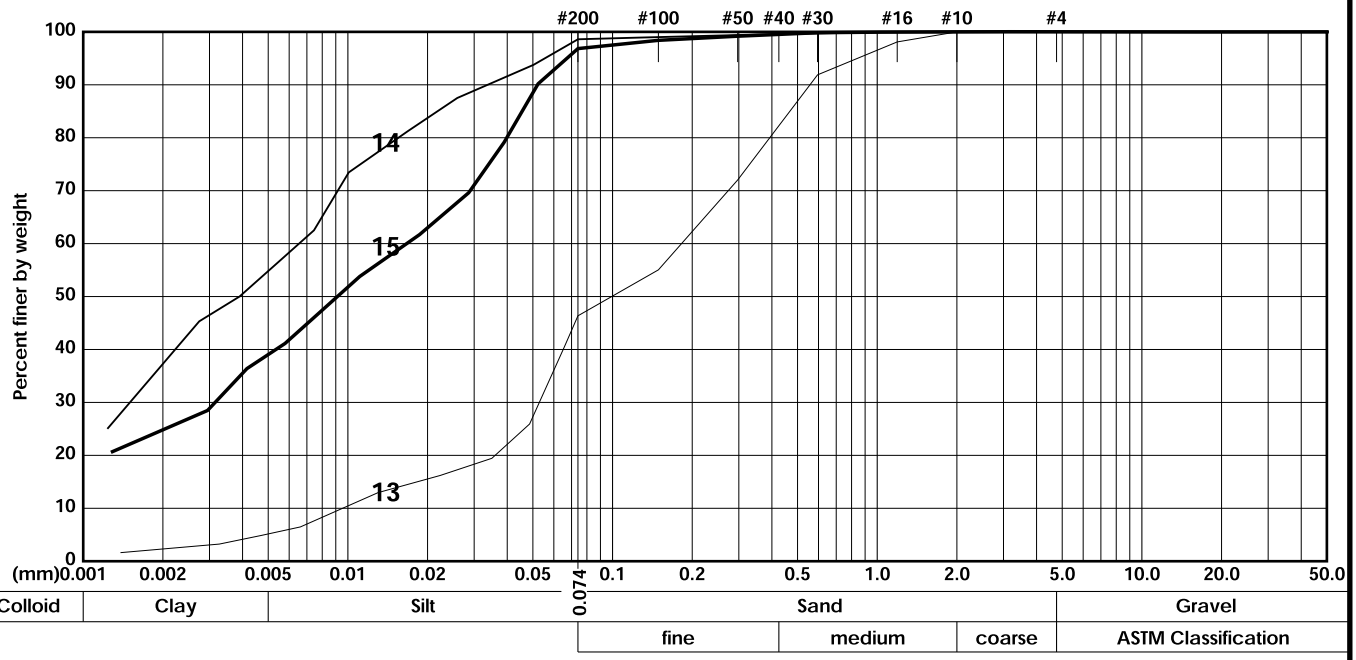
APPENDIX B.2.14

P.T. SOILENS

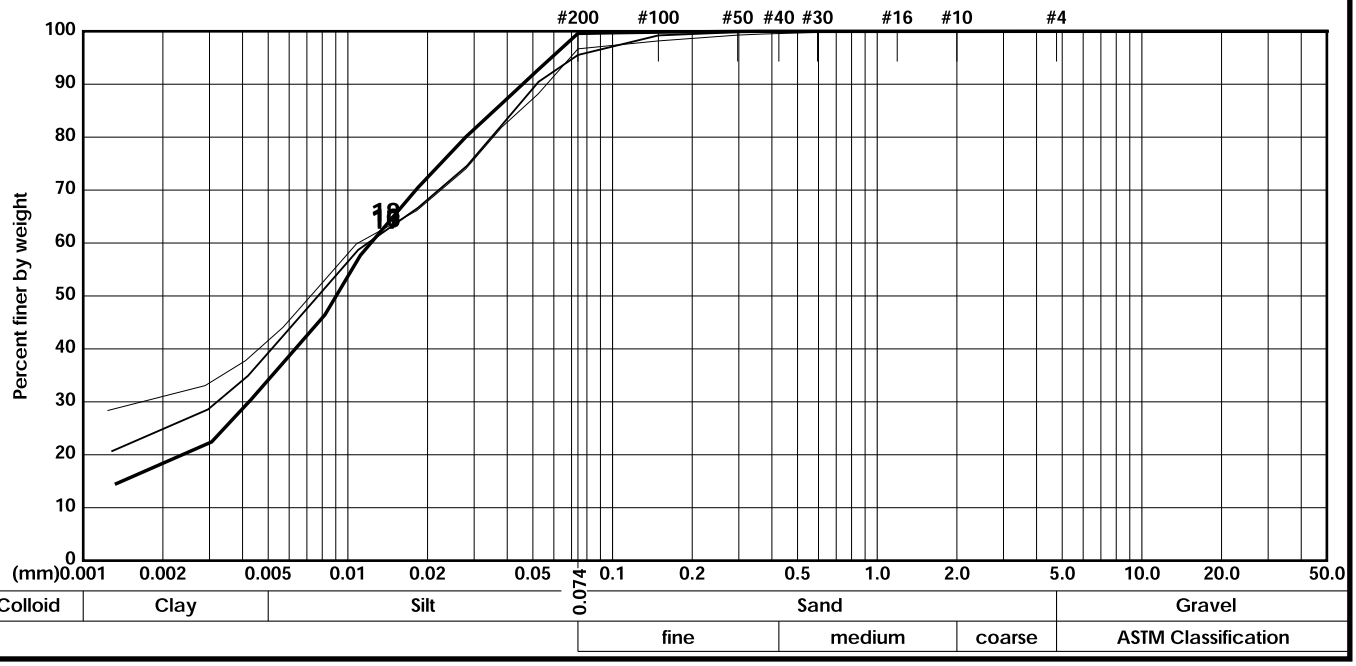
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 5,2014
LOCATION	: Pagaulan, Sukaresmi - Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-5	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
13	25.70 - 26.00	-	0%	54%	41%	5%	.182	.053	.01	19.1	1.6	46
14	27.70 - 28.00	-	0%	1%	44%	55%	.007	.002				99
15	29.70 - 30.00	-	0%	3%	58%	39%	.017	.003				97



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
16	31.70 - 32.00	-	0%	3%	55%	42%	.011	.002				97
17	33.70 - 34.00	-	0%	4%	57%	39%	.012	.003				96
18	35.70 - 36.00	-	0%	0%	66%	34%	.012	.004				100



B05B.TXT - AvantGarde-Demi

Plate

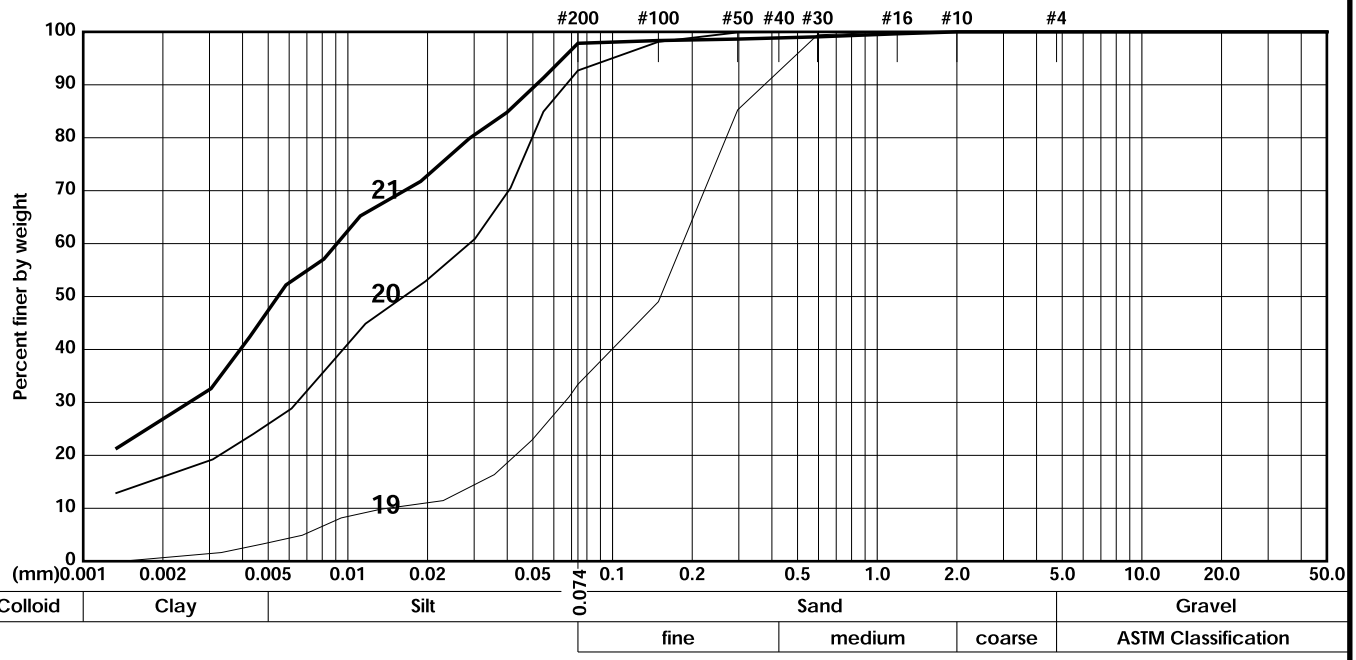
APPENDIX B.2.15

P.T. SOILENS

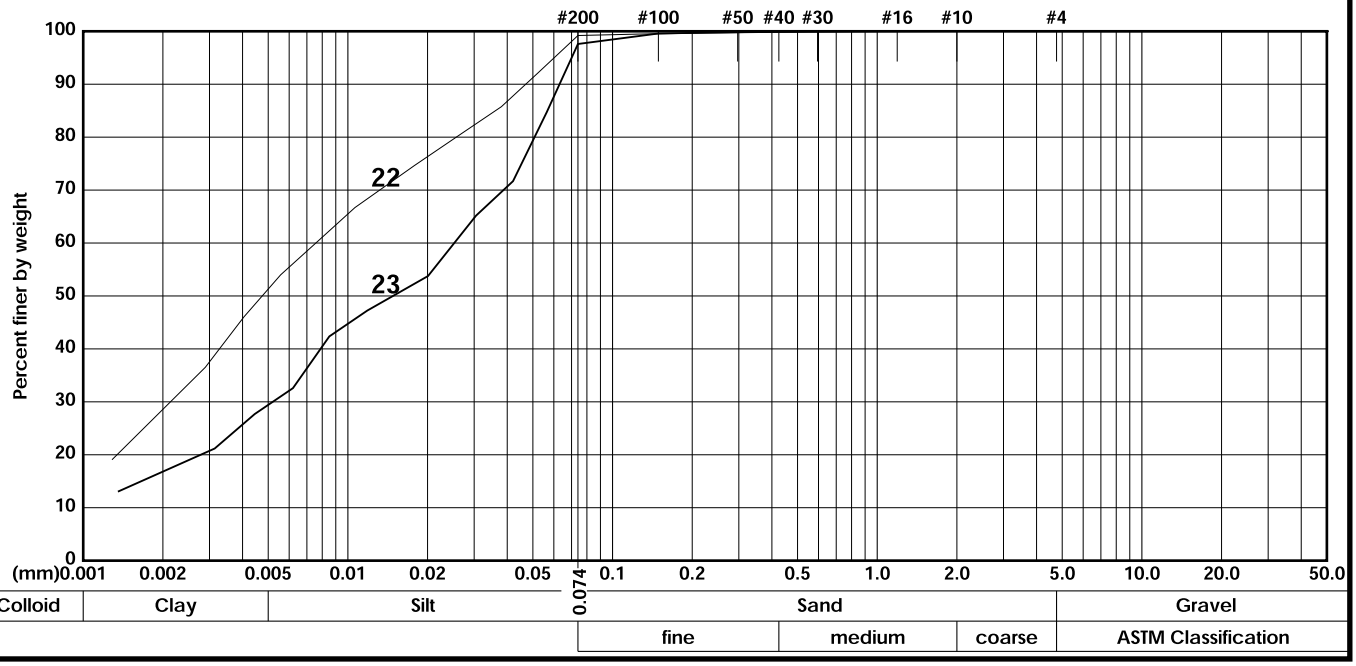
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Dec 5,2014
LOCATION	: Pagaulan, Sukaresmi - Cikarang Barat	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-5	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
19	41.70 - 42.00	-	0%	67%	30%	3%	.184	.066	.014	13	1.7	33
20	43.70 - 44.00	-	0%	7%	67%	26%	.029	.006				93
21	45.70 - 46.00	-	0%	2%	51%	47%	.009	.003				98



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
22	47.70 - 48.00	-	0%	1%	48%	51%	.008	.002				99
23	49.70 - 50.00	-	0%	2%	69%	29%	.025	.005				98



B05C.TXT - AvantGarde-Demi

Plate

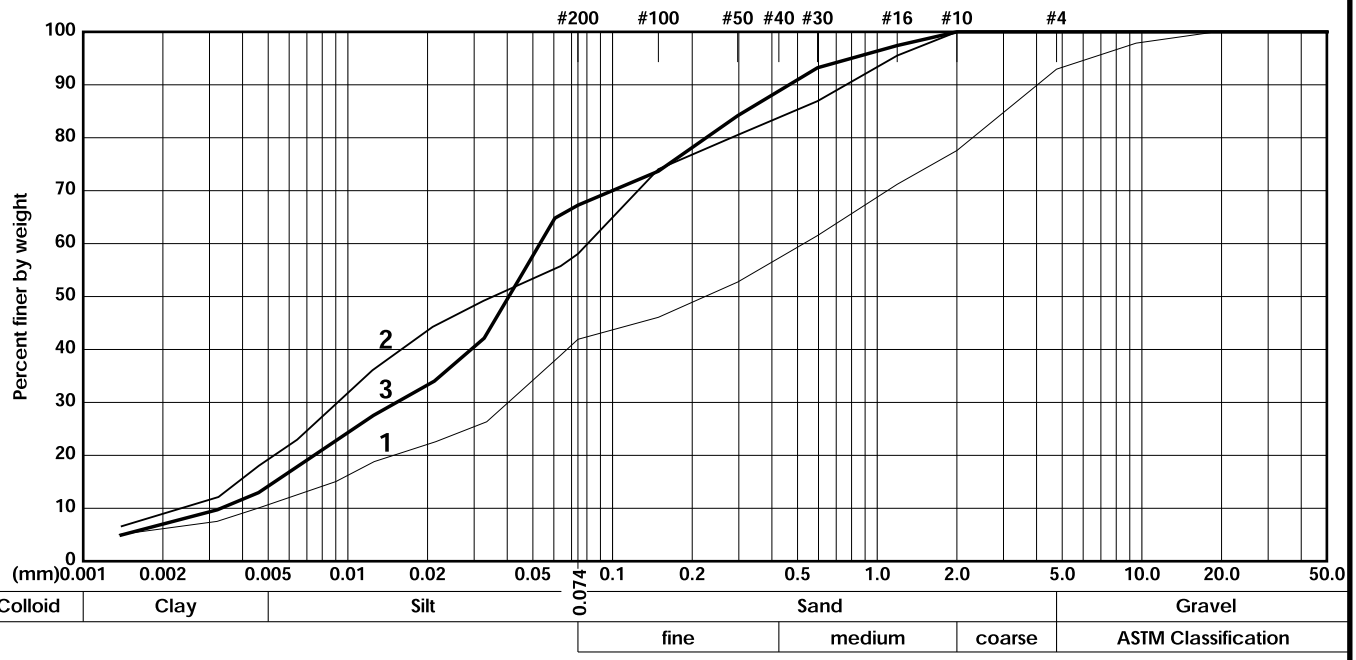
APPENDIX B.2.16

P.T. SOILENS

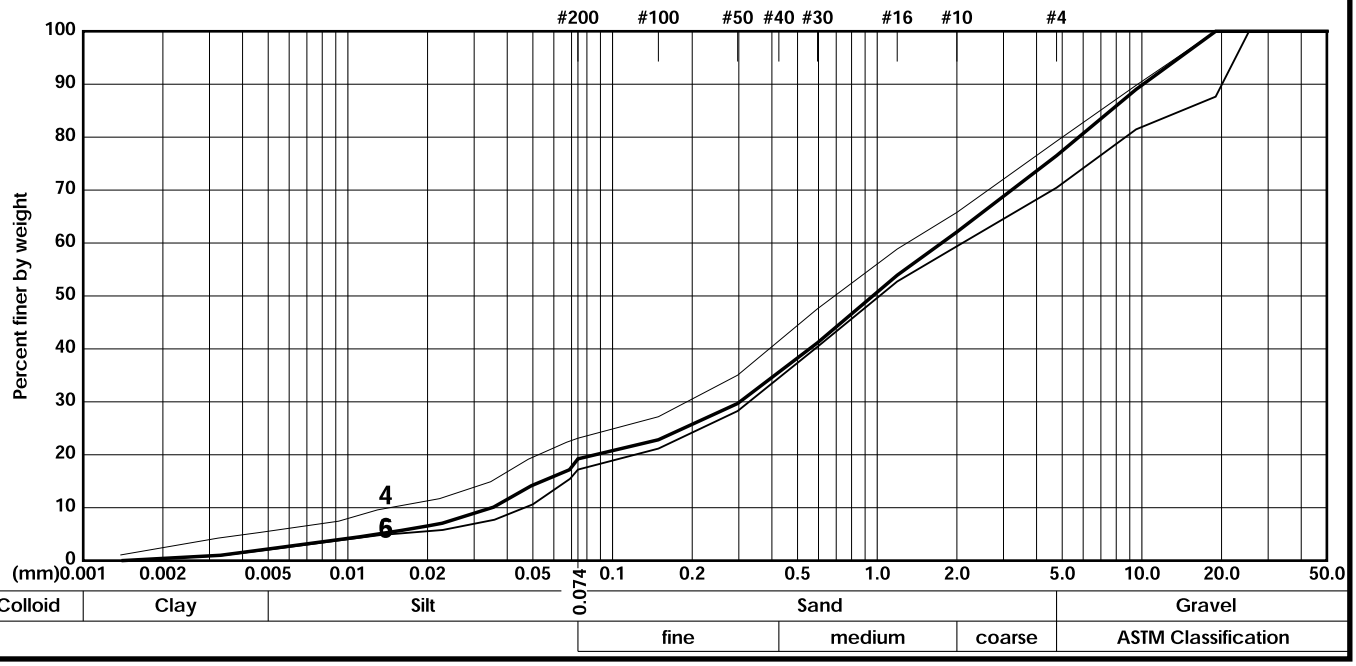
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: CITAMAN,CIGUGUR TENGAH,CIMINDI,CIMAHI	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-15	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	7%	51%	31%	11%	.528	.04	.005	115.6	.7	42
2	5.70 - 6.00	-	0%	42%	39%	19%	.081	.009	.002	34.4	.4	58
3	7.70 - 8.00	-	0%	33%	53%	14%	.053	.015	.003	16	1.3	67



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
4	9.70 - 10.00	-	21%	56%	18%	6%	1.296	.191	.014	90.2	2	23
5	13.70 - 14.00	-	30%	53%	15%	2%	2.098	.328	.046	45.1	1.1	17
6	15.70 - 16.00	-	23%	58%	17%	2%	1.751	.303	.035	50.1	1.5	19



B15.TXT - AvantGarde-Demi

Plate

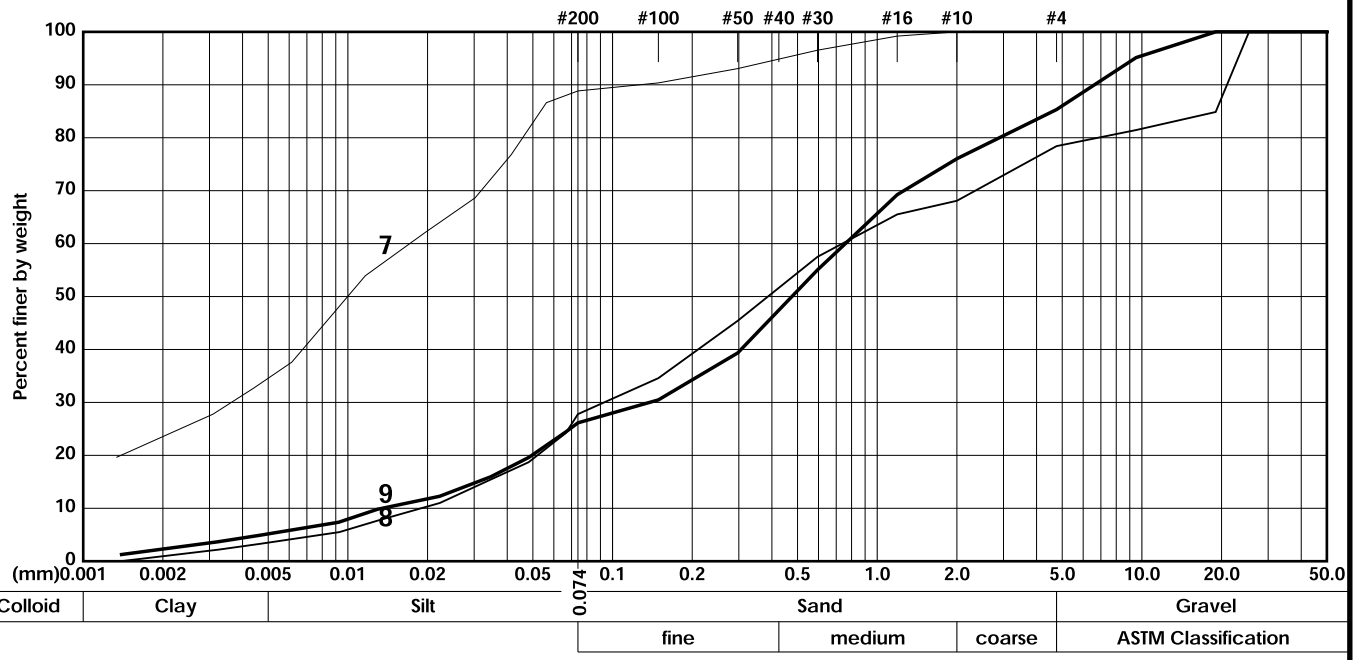
APPENDIX B.2.17

P.T. SOILENS

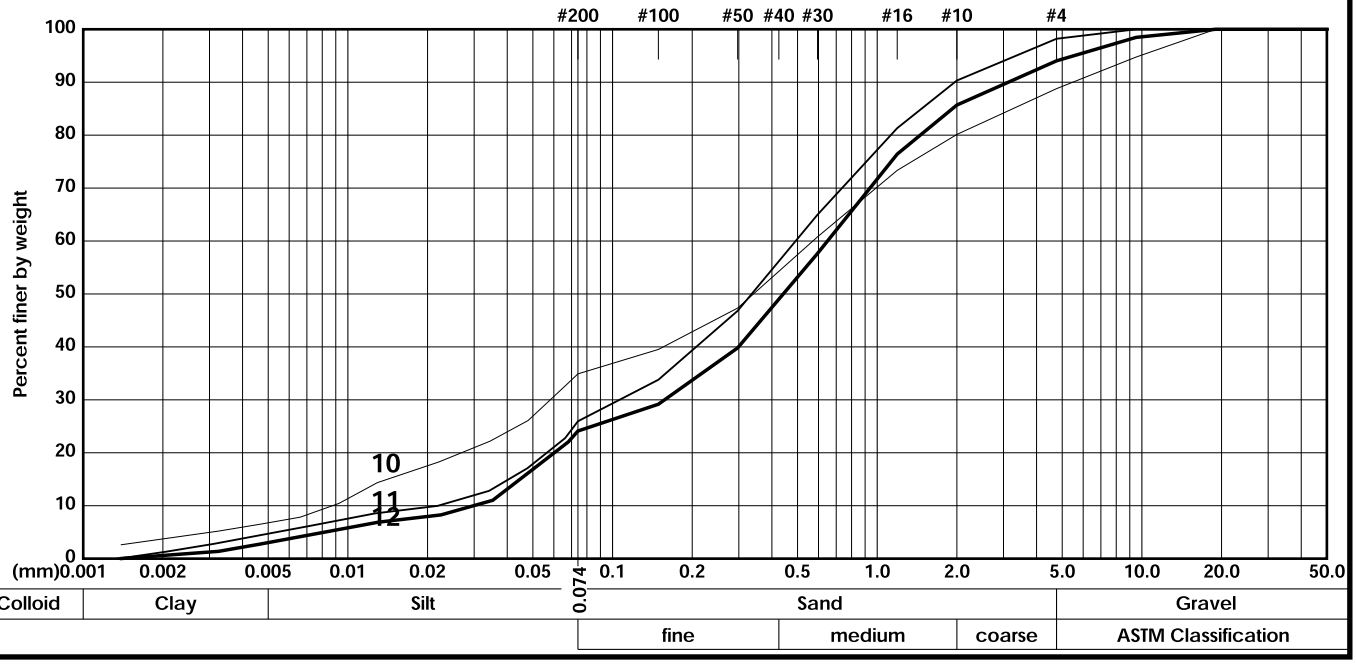
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: CITAMAN,CIGUGUR TENGAH,CIMINDI,CIMAHI	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-15	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
7	16.70 - 17.00	-	0%	11%	54%	35%	.017	.004				89
8	17.70 - 18.00	-	22%	51%	24%	4%	.738	.093	.019	39	.6	28
9	19.70 - 20.00	-	15%	59%	21%	5%	.758	.138	.013	56.3	1.9	26



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
10	21.70 - 22.00	-	11%	54%	28%	7%	.571	.058	.009	65.3	.7	35
11	23.70 - 24.00	-	2%	72%	21%	5%	.492	.106	.022	22.4	1	26
12	25.70 - 26.00	-	6%	70%	21%	3%	.649	.157	.03	21.7	1.3	24



B15A.TXT - AvantGarde-Demi

Plate

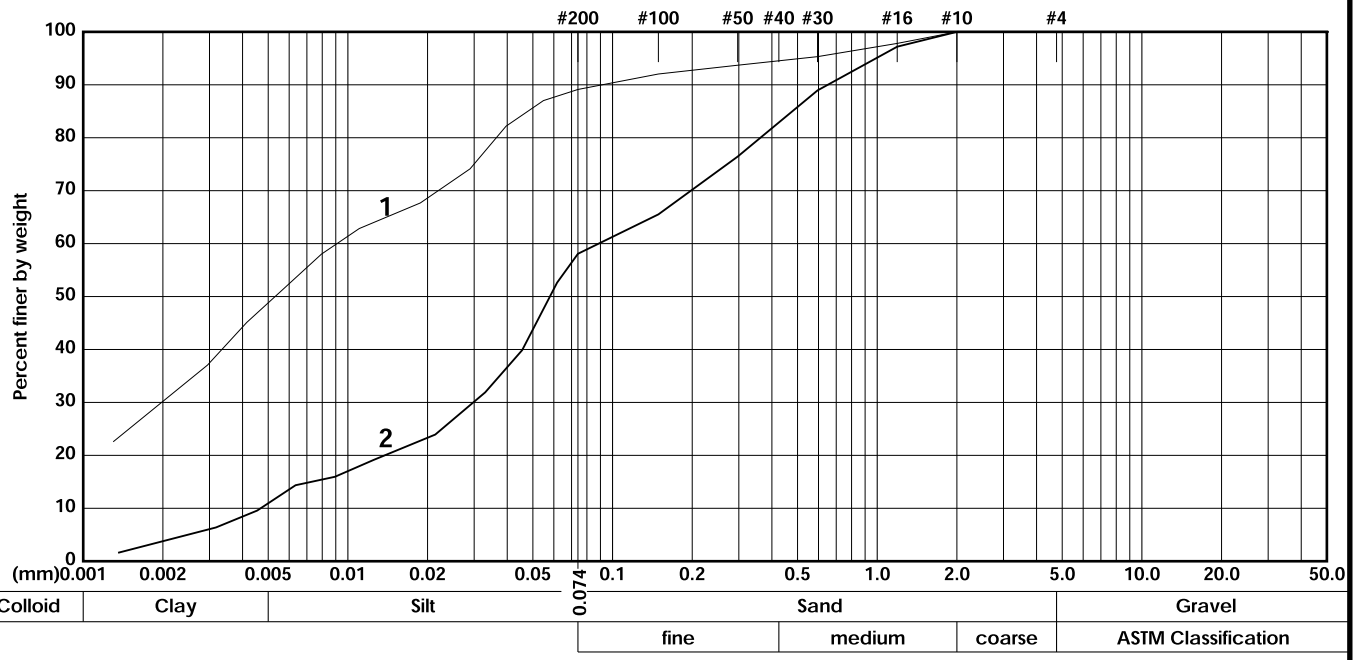
APPENDIX B.2.18

P.T. SOILENS

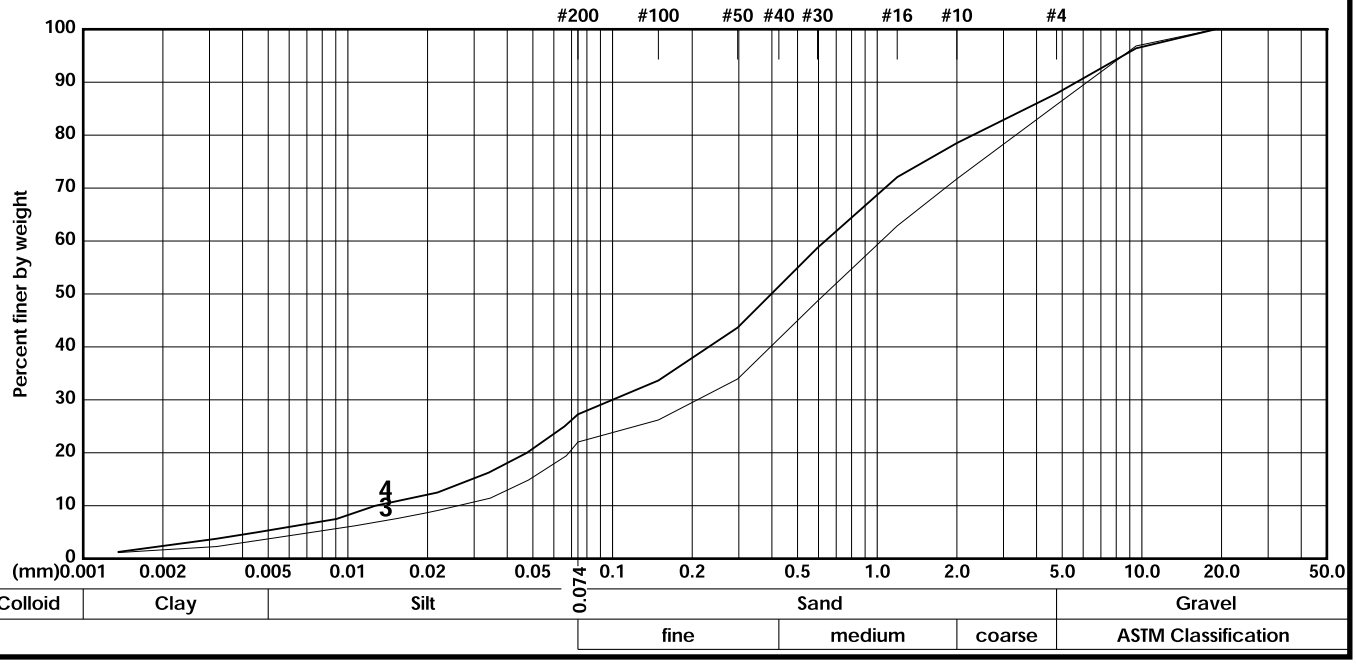
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: JALAN LASWI,MALEER,KACAPIRING,BANDUNG	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-16	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	11%	40%	49%	.009	.002				89
2	3.70 - 4.00	-	0%	42%	47%	11%	.089	.03	.005	18.9	2.1	58



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
3	9.70 - 10.00	-	14%	64%	18%	4%	1.035	.209	.026	39.7	1.6	22
4	11.70 - 12.00	-	12%	61%	22%	5%	.636	.1	.013	50	1.2	27



B16.TXT - AvantGarde-Demi

Plate

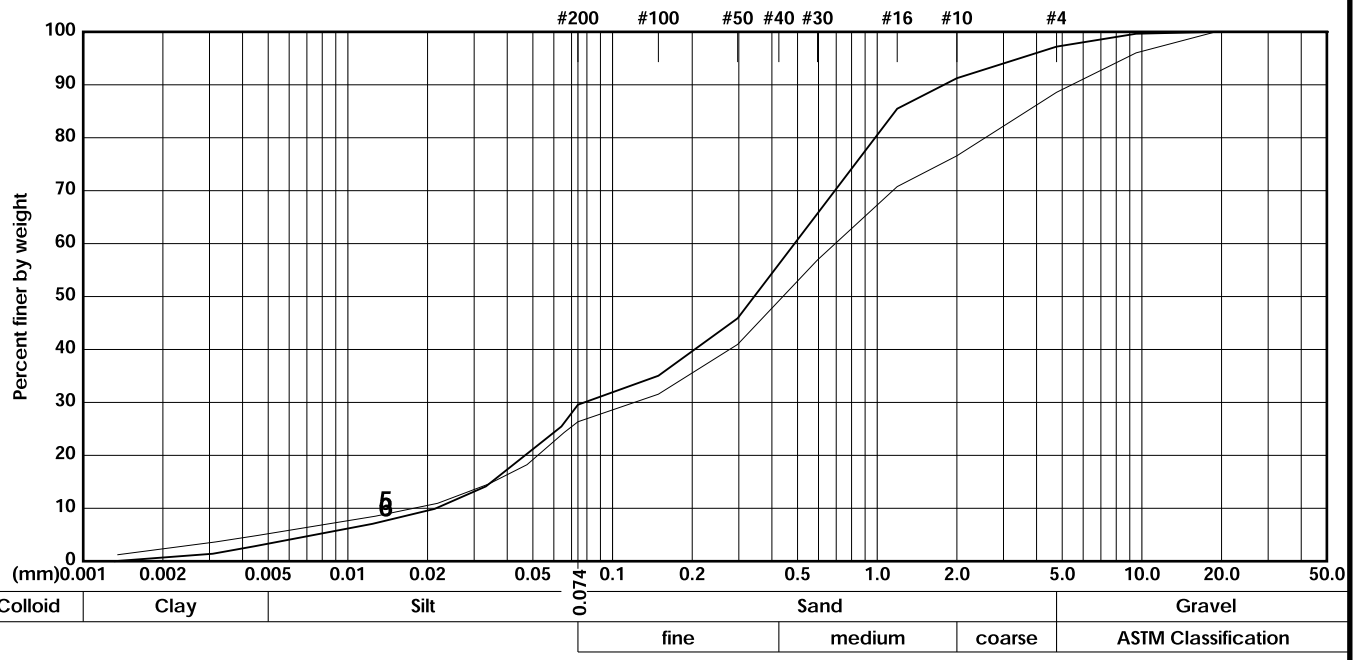
APPENDIX B.2.19

P.T. SOILENS

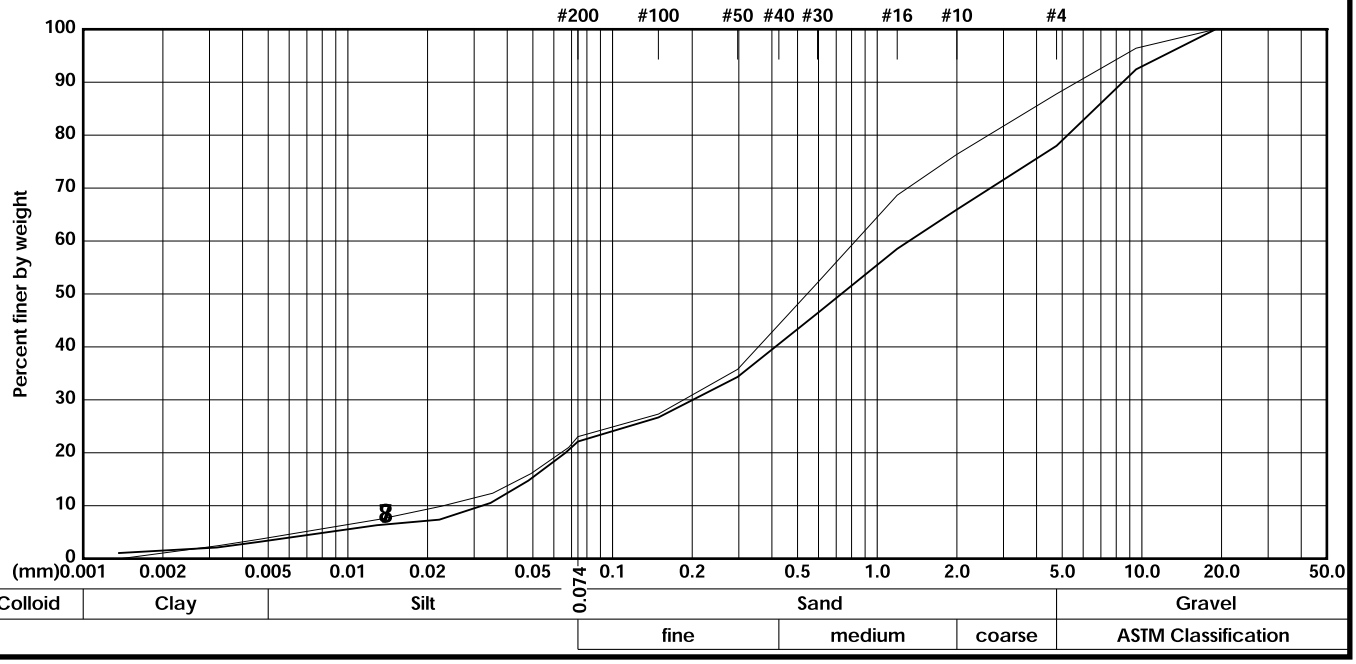
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: JALAN LASWI,MALEER,KACAPIRING,BANDUNG	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-16	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
5	13.70 - 14.00	-	11%	63%	21%	5%	.694	.121	.018	39.2	1.2	26
6	17.70 - 18.00	-	3%	67%	27%	3%	.487	.078	.022	22.6	.6	30



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
7	19.70 - 20.00	-	12%	65%	19%	4%	.828	.186	.023	36.1	1.8	23
8	21.70 - 22.00	-	22%	56%	19%	3%	1.319	.201	.032	41	1	22



B16A.TXT - AvantGarde-Demi

Plate

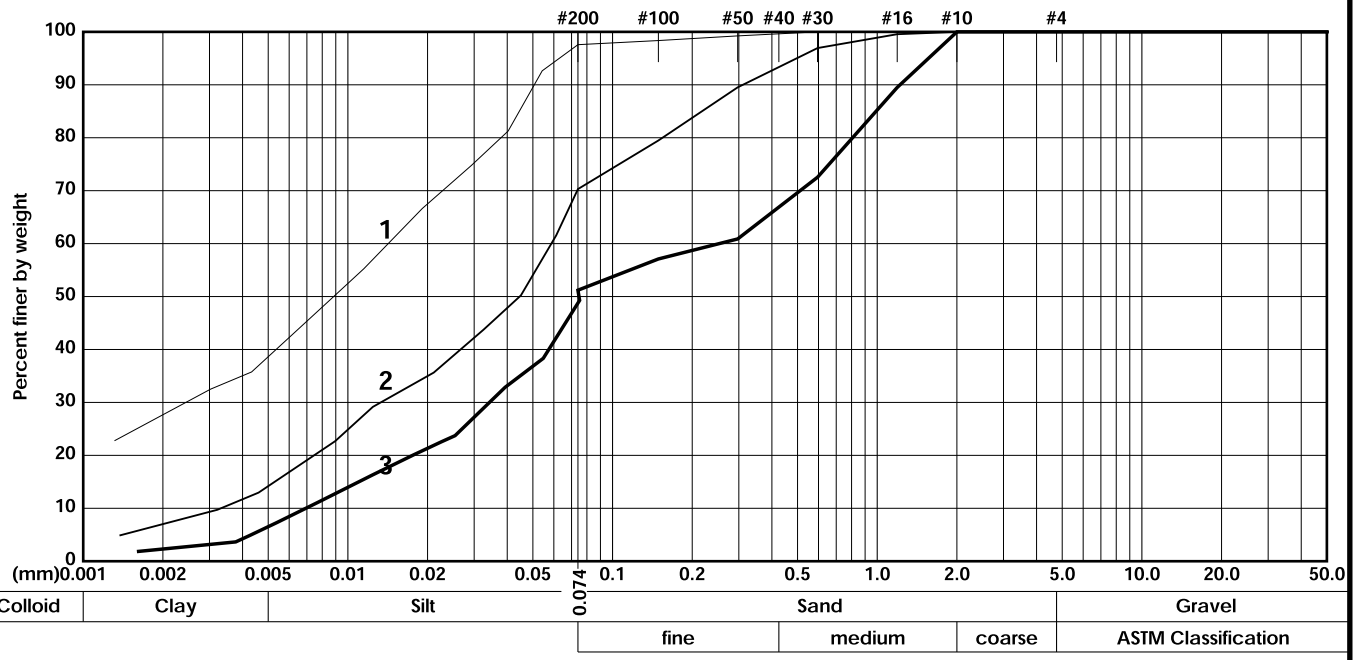
APPENDIX B.2.20

P.T. SOILENS

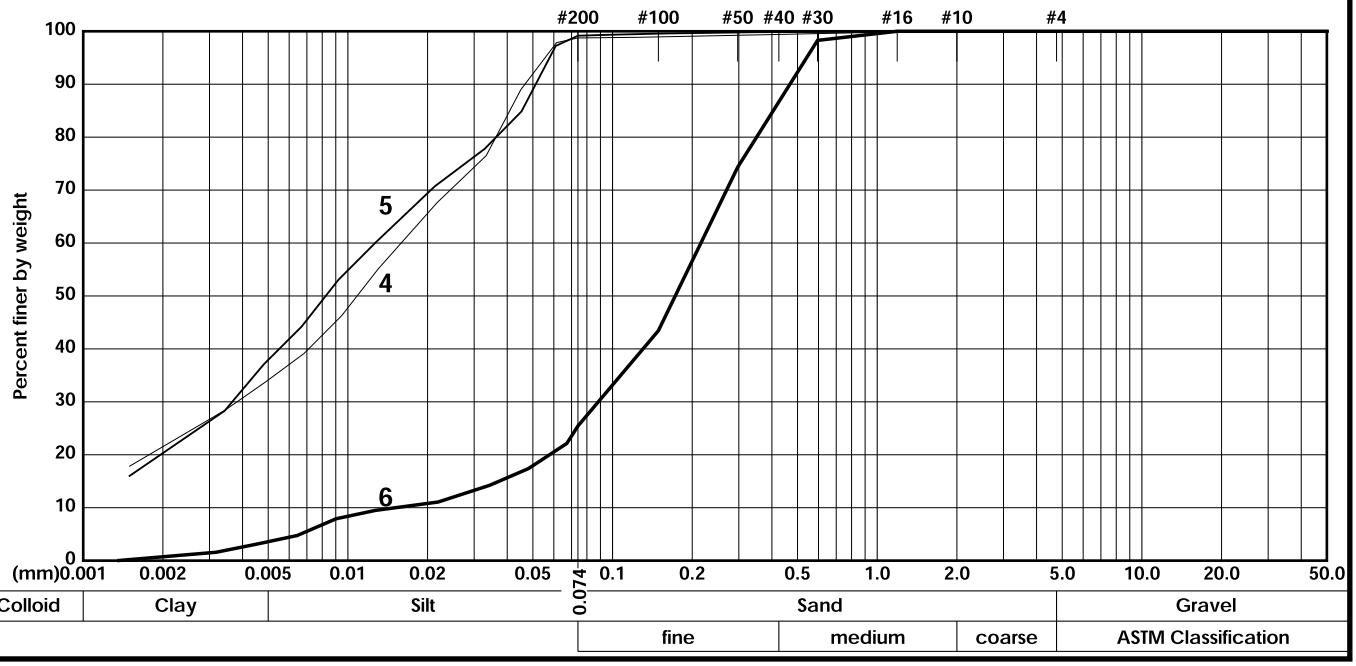
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Kp.Cilameta, Ds.Cimencrang, Kec.Gede Bage	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-17	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
1	1.70 - 2.00	-	0%	2%	59%	39%	.014	.002				98
2	3.70 - 4.00	-	0%	30%	56%	14%	.059	.013	.003	17.7	.9	70
3	5.70 - 6.00	-	0%	49%	44%	7%	.253	.034	.007	36.5	.7	51



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
4	7.70 - 8.00	-	0%	1%	65%	34%	.016	.004				99
5	9.70 - 10.00	-	0%	1%	61%	38%	.013	.004				99
6	11.70 - 12.00	-	0%	75%	21%	4%	.216	.088	.015	14.2	2.4	25



B17.TXT - AvantGarde-Demi

Plate

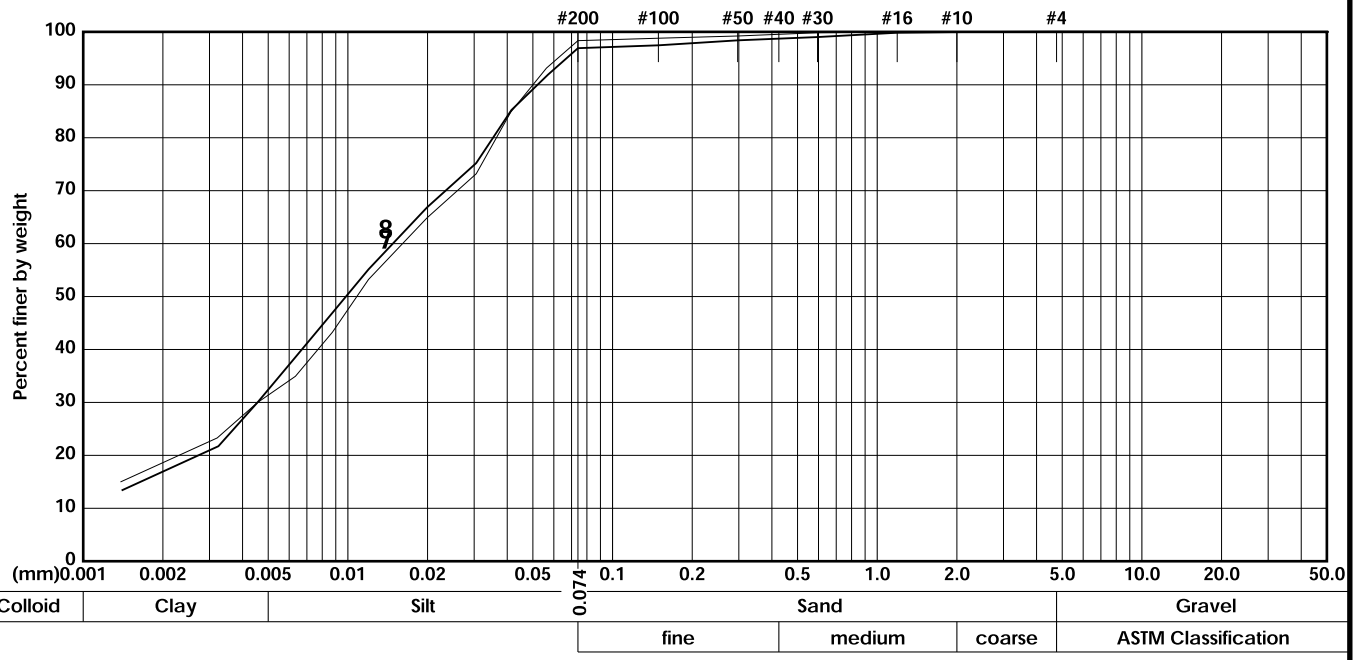
APPENDIX B.2.21

P.T. SOILENS

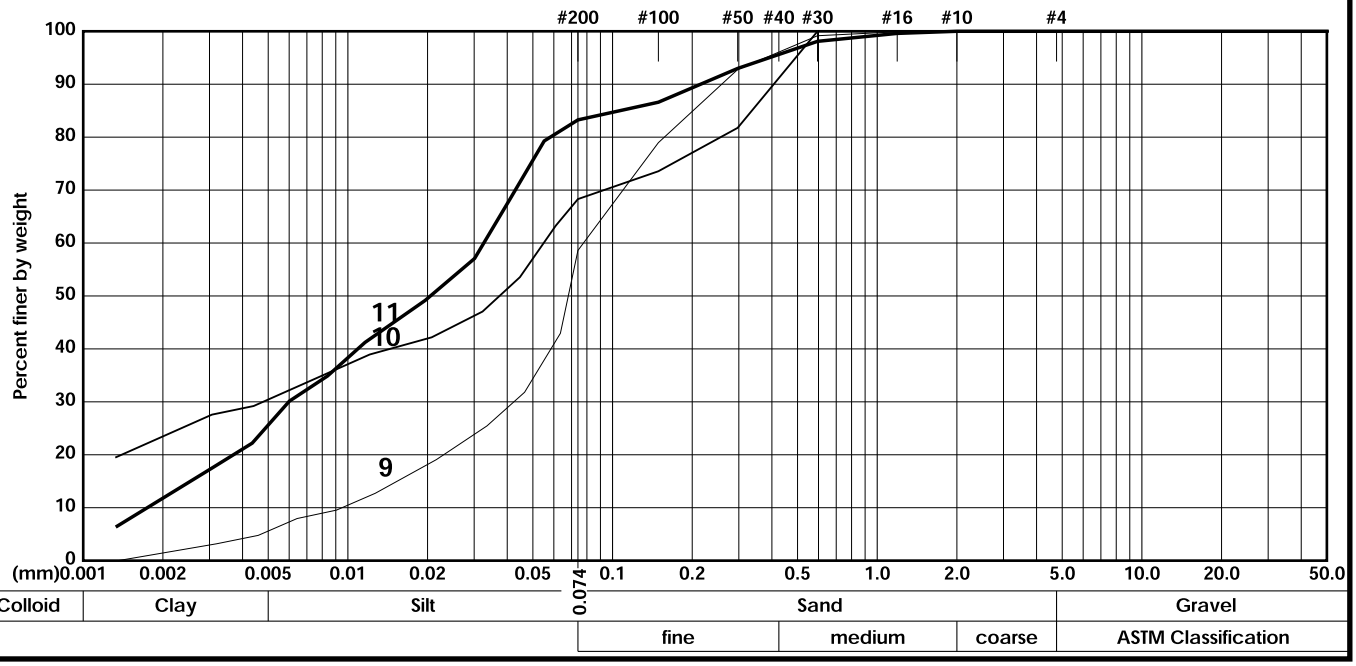
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Kp.Cilameta, Ds.Cimencrang, Kec.Gede Bage	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-17	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
7	13.70 - 14.00	-	0%	2%	67%	31%	.016	.005				98
8	15.70 - 16.00	-	0%	3%	65%	32%	.015	.005				97



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
9	17.70 - 18.00	-	0%	41%	53%	6%	.078	.042	.01	8.2	2.4	59
10	19.70 - 20.00	-	0%	32%	38%	30%	.055	.005				68
11	21.70 - 22.00	-	0%	17%	57%	26%	.033	.006	.002	18.7	.6	83



B17A.TXT - AvantGarde-Demi

Plate

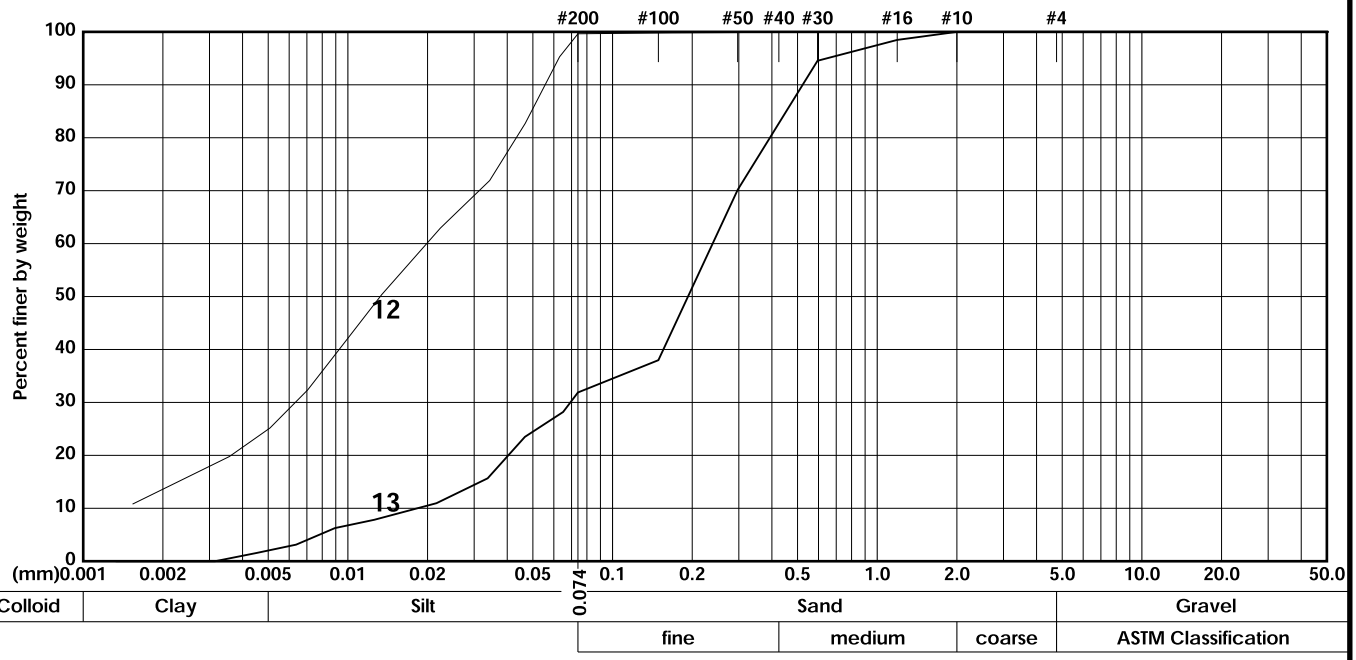
APPENDIX B.2.22

P.T. SOILENS

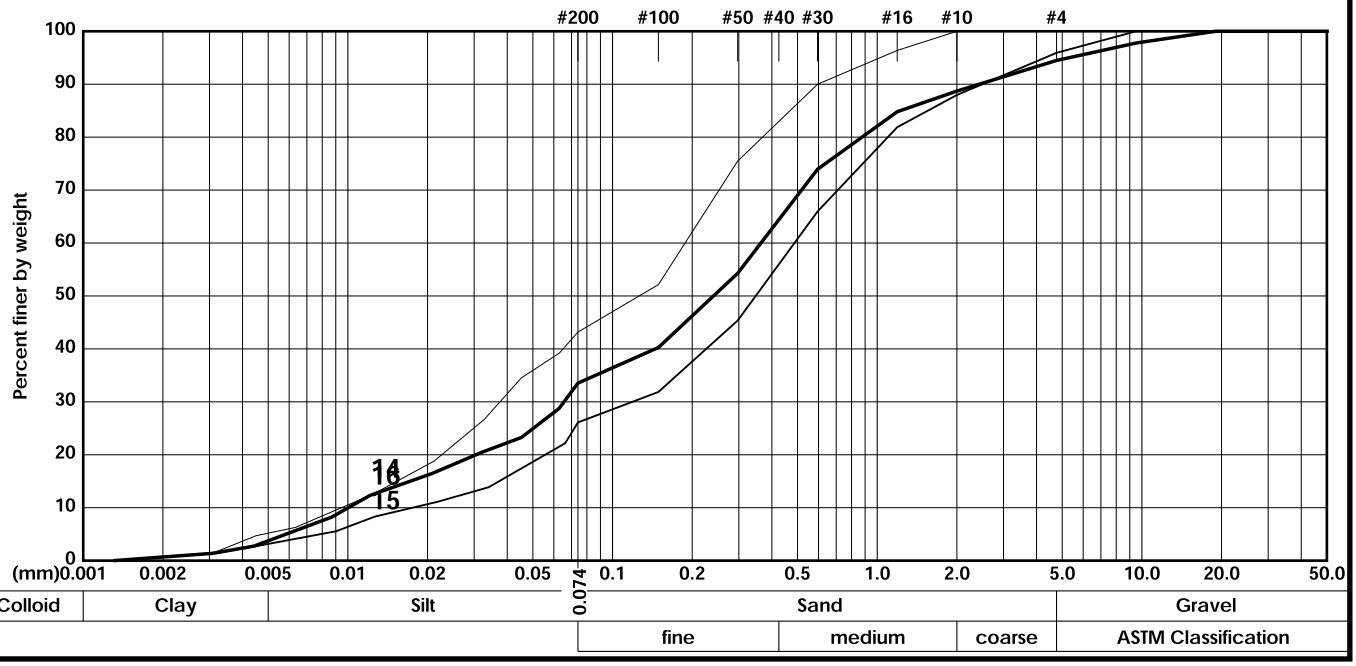
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Kp.Cilameta, Ds.Cimencrang, Kec.Gede Bage	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-17	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
12	23.70 - 24.00	-	0%	0%	75%	25%	.02	.006				100
13	25.70 - 26.00	-	0%	68%	30%	2%	.239	.069	.018	13	1.1	32



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
14	27.70 - 28.00	-	0%	57%	38%	5%	.188	.038	.009	19.9	.8	43
15	29.70 - 30.00	-	4%	70%	23%	3%	.487	.119	.018	27.7	1.7	26
16	31.70 - 32.00	-	6%	60%	30%	4%	.364	.066	.01	36.2	1.2	34



B17B.TXT - AvantGarde-Demi

Plate

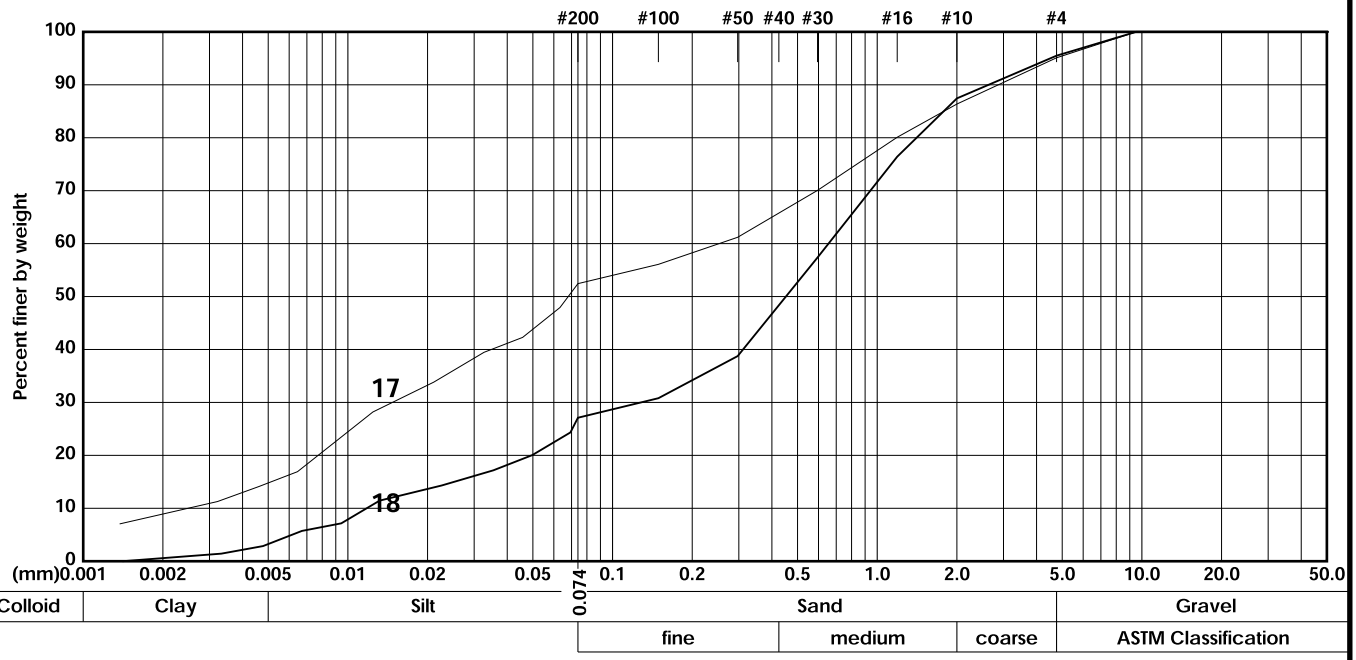
APPENDIX B.2.23

P.T. SOILENS

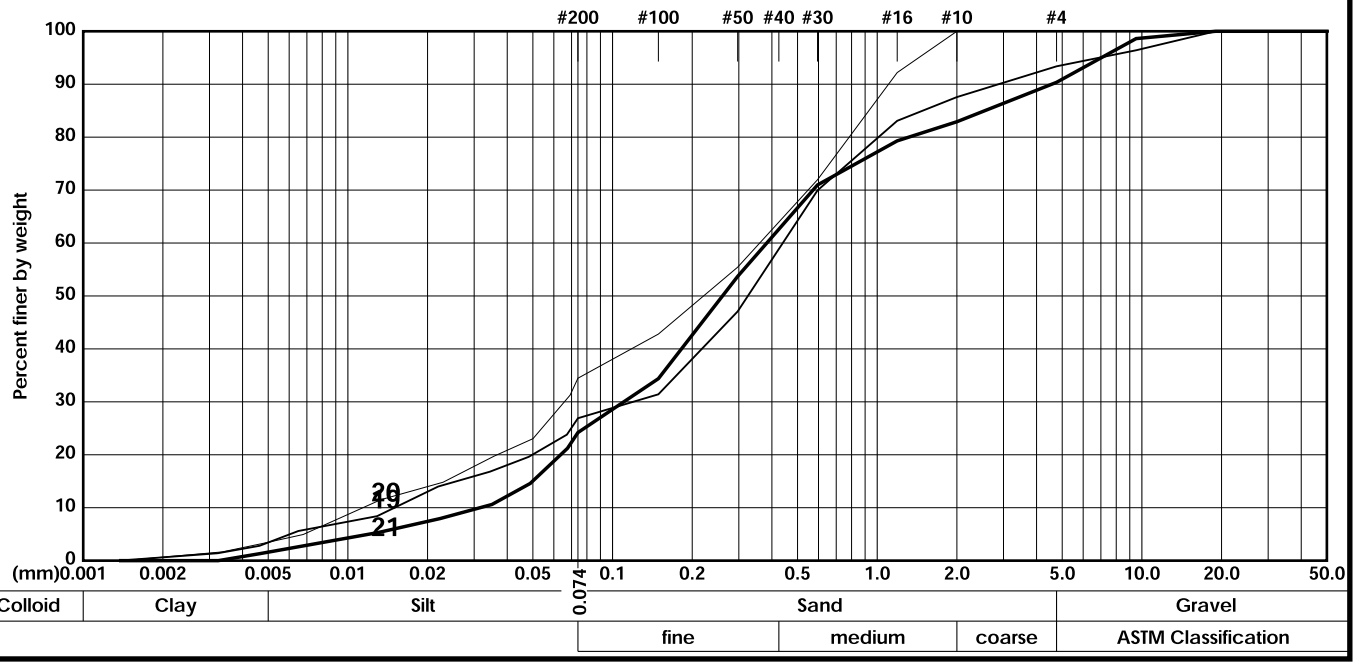
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Kp.Cilameta, Ds.Cimencrang, Kec.Gede Bage	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-17	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
17	33.70 - 34.00	-	5%	43%	38%	15%	.253	.015	.002	101.6	.3	52
18	35.70 - 36.00	-	4%	69%	24%	3%	.655	.128	.012	55.6	2.1	27



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
19	37.70 - 38.00	-	0%	66%	31%	3%	.36	.066	.011	31.6	1.1	34
20	39.70 - 40.00	-	7%	66%	24%	3%	.44	.12	.015	29.3	2.2	27
21	41.70 - 42.00	-	10%	66%	2%	2%	.383	.11	.032	12.1	1	24



B17C.TXT - AvantGarde-Demi

Plate

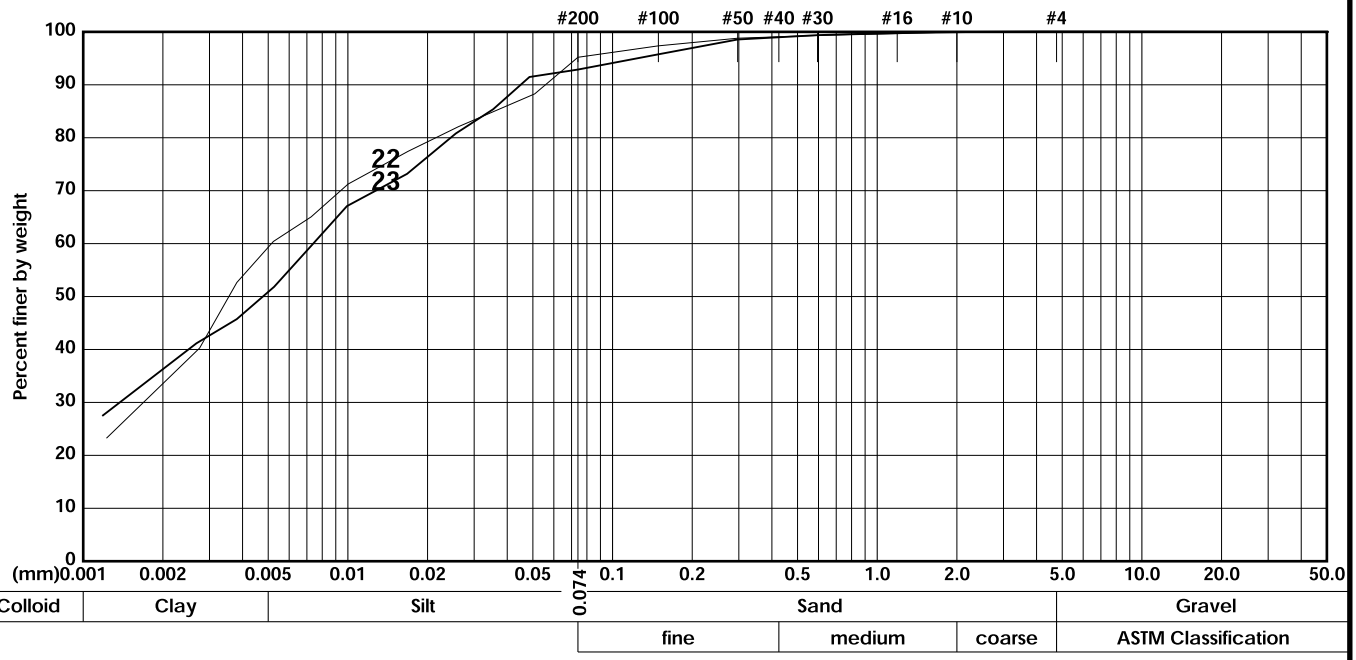
APPENDIX B.2.24

P.T. SOILENS

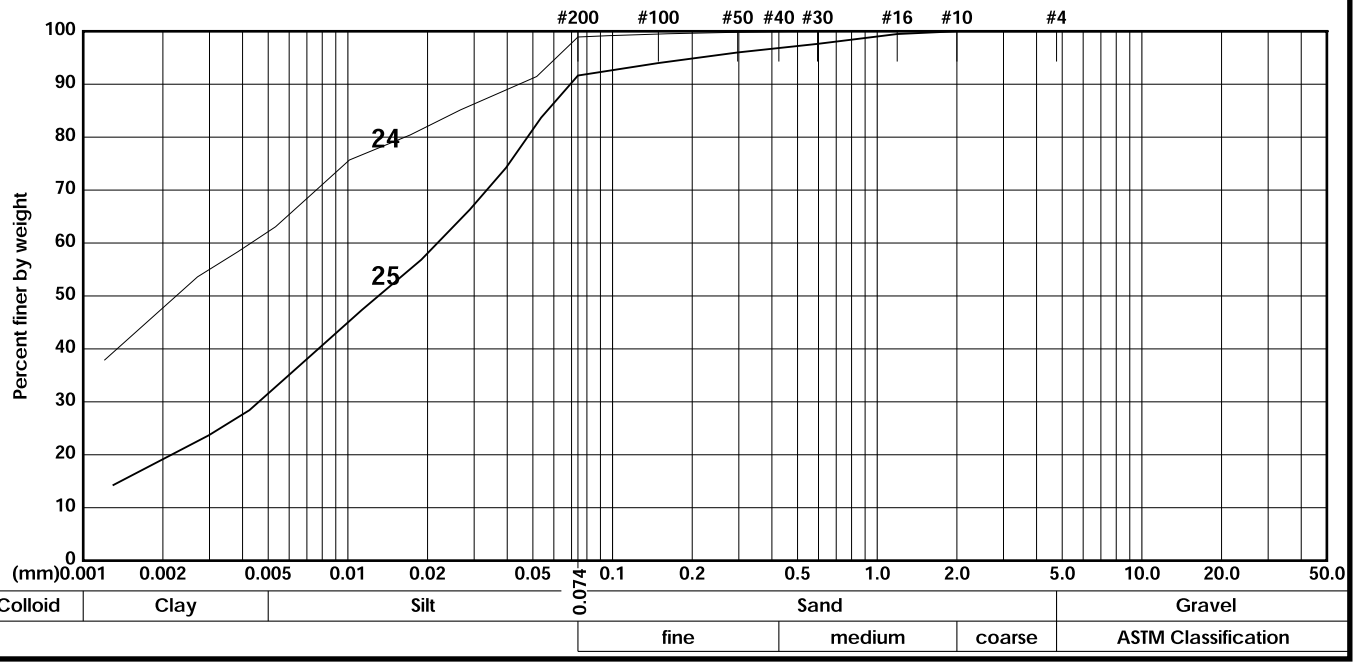
GRAINSIZE ANALYSIS

PROJECT	: GEOLOGICAL (BORING) SURVEY JAKARTA-BANDUNG	JOB NO.	: 3113
	: HIGH SPEED RAILWAY PROJECT (FS-I)	DATE	: Nov 28,2014
LOCATION	: Kp.Cilameta, Ds.Cimencrang, Kec.Gede Bage	TESTED BY	: Suhadi
CLIENT	: JICA Study Team	RECORDED BY	: NJ
BORE HOLE NO.	: B-17	CHECKED BY	: Lady

NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
22	43.70 - 44.00	-	0%	5%	36%	59%	.005	.002				95
23	45.70 - 46.00	-	0%	7%	42%	51%	.007	.001				93



NO	DEPTH (M)	CLASSIFICATION	Gravel	Sand	Silt	Clay	D60	D30	D10	Uc	Cc	% < #200
24	47.70 - 48.00	-	0%	1%	37%	62%	.004					99
25	49.70 - 50.00	-	0%	8%	60%	32%	.022	.005				92



B17D.TXT - AvantGarde-Demi

Plate

APPENDIX B.2.25

PT.SOILENS

SLAKE DURABILITY INDEX TEST

PROJECT	: Jakarta-Bandung High-Speed Railway	DATE	: 17 Desember 2014
LOCATION	:	TESTED BY	: AB
CLIENT	: JICA STUDY TEAM	CHECKED BY	: LD
HOLE ID	: B-7		
DEPTH	: 15.45 - 16.00 m		
DESCRIPTION	:		

Mass of drum plus sample at natural moisture content.	A	=	3011.3	gr
Mass of drum plus oven dried sample before the first cycle	B	=	2846.8	gr
Mass of drum	C	=	2360.0	gr
Natural Moisture Content, w = (A - B) / (B - C) x 100%		=	33.79	%
Mass of drum plus oven dried sample before the first cycle	B1	=	2846.8	gr
Mass of drum plus oven dried sample retained after the first cycle W_{f1}		=	2676.0	gr
Slake Durability Index (first cycle)	**I_d (1) = (W_{f1}-C)/(B-C)x100%**	=	64.91	%
Mass of drum plus oven dried sample before the second cycle	B_2	=	2676	gr
Mass of drum plus oven dried sample retained after the second cycle W_{f2}		=	2608.3	gr
Slake Durability Index (second cycle)	**I_d (2) = (W_{f2}-C)/(B-C)x100%**	=	**51.01**	%

Type I : Retained pieces remain virtually unchange

Type II : Retained materials consist of large and small pieces

Type III : Retained materials is exlusively small fragment

Ilustration of Fragment Retained
ASTM D 4644

Before Test

After Test

Fragment Type Retained :
Type II :Retained materials consist of large and small pieces

PT.SOILENS

SLAKE DURABILITY INDEX TEST

PROJECT	: Jakarta-Bandung High-Speed Railway	DATE	: 17 Desember 2014
LOCATION	:	TESTED BY	: AB
CLIENT	: JICA STUDY TEAM	CHECKED BY	: LD
HOLE ID	: B-8		
DEPTH	: 18.45 - 19.00 m		
DESCRIPTION	:		

Mass of drum plus sample at natural moisture content.	A	=	3136.6	gr
Mass of drum plus oven dried sample before the first cycle	B	=	3016.2	gr
Mass of drum	C	=	2360.0	gr
Natural Moisture Content, w = (A - B) / (B - C) x 100%		=	18.35	%
Mass of drum plus oven dried sample before the first cycle	B1	=	3016.2	gr
Mass of drum plus oven dried sample retained after the first cycle W_{f1}		=	2783.0	gr
Slake Durability Index (first cycle)	**I_d (1) = (W_{f1}-C)/(B-C)x100%**	=	64.46	%
Mass of drum plus oven dried sample before the second cycle	B_2	=	2783	gr
Mass of drum plus oven dried sample retained after the second cycle W_{f2}		=	2577	gr
Slake Durability Index (second cycle)	**I_d (2) = (W_{f2}-C)/(B-C)x100%**	=	**33.07**	%

Type I : Retained pieces remain virtually unchange

Type II : Retained materials consist of large and small pieces

Type III : Retained materials is exlusively small fragment

Ilustration of Fragment Retained
ASTM D 4644

Before Test

After Test

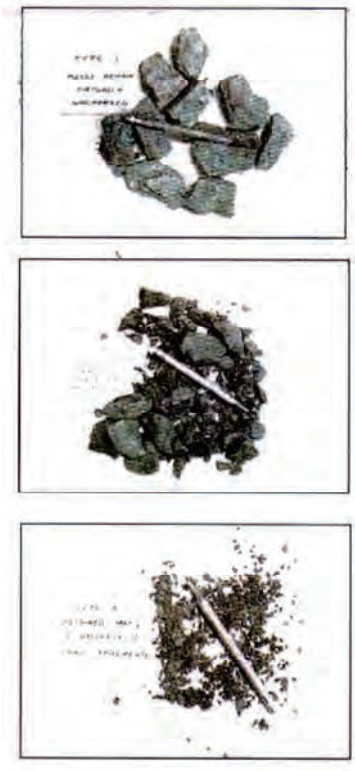
Fragment Type Retained :
Type II :Retained materials consist of large and small pieces

PT.SOILENS

SLAKE DURABILITY INDEX TEST

PROJECT	: Jakarta-Bandung High-Speed Railway	DATE	: 05 Desember 2014
LOCATION	: Kp. Cisuren, Desa Mekargalih, Purwakarta	TESTED BY	: AB
CLIENT	: JICA STUDY TEAM	CHECKED BY	: LD
HOLE ID	: BH. 11		
DEPTH	: 40.45 - 41.00 m		
DESCRIPTION	: Organic Clay		

Mass of drum plus sample at natural moisture content.	A	=	3289.5	gr
Mass of drum plus oven dried sample before the first cycle	B	=	3200.3	gr
Mass of drum	C	=	2360.0	gr
Natural Moisture Content, w = (A - B) / (B - C) x 100%		=	10.62	%
Mass of drum plus oven dried sample before the first cycle	B1	=	3200.3	gr
Mass of drum plus oven dried sample retained after the first cycle W_{f1}		=	2576.5	gr
Slake Durability Index (first cycle)	**I_d (1) = $(W_{f1}$-C)/(B-C)x100%**	=	25.76	%
Mass of drum plus oven dried sample before the second cycle	B_2	=	2576.5	gr
Mass of drum plus oven dried sample retained after the second cycle W_{f2}		=	2475.7	gr
Slake Durability Index (second cycle)	**I_d (2) = $(W_{f2}$-C)/(B-C)x100%**	=	**13.77**	%



Type I : Retained pieces remain virtually unchange

Type II : Retained materials consist of large and small pieces

Type III : Retained materials is exlusively small fragment

Illustration of Fragment Retained
ASTM D 4644

Before Test

After Test

Fragment Type Retained :

Type II :Retained materials consist of large and small pieces

PT.SOILENS

SLAKE DURABILITY INDEX TEST

PROJECT	: Jakarta-Bandung High-Speed Railway	DATE	: 05 Desember 2014
LOCATION	: Kp. Cisuren, Desa Mekargalih, Purwakarta	TESTED BY	: AB
CLIENT	: JICA STUDY TEAM	CHECKED BY	: LD
HOLE ID	: BH. 12		
DEPTH	: 20.30 - 21.00 m		
DESCRIPTION	: Organic Clay		

Mass of drum plus sample at natural moisture content.	A	=	3215.5	gr
Mass of drum plus oven dried sample before the first cycle	B	=	3155.4	gr
Mass of drum	C	=	2360.0	gr
Natural Moisture Content, w = (A - B) / (B - C) x 100%		=	7.56	%
Mass of drum plus oven dried sample before the first cycle	B1	=	3155.4	gr
Mass of drum plus oven dried sample retained after the first cycle W_{f1}		=	2668.4	gr
Slake Durability Index (first cycle)	**I_d (1) = (W_{f1}-C)/(B-C)x100%**	=	38.77	%
Mass of drum plus oven dried sample before the second cycle	B_2	=	2668.4	gr
Mass of drum plus oven dried sample retained after the second cycle W_{f2}		=	2622.3	gr
Slake Durability Index (second cycle)	**I_d (2) = (W_{f2}-C)/(B-C)x100%**	=	**32.98**	%

Type I : Retained pieces remain virtually unchange

Type II : Retained materials consist of large and small pieces

Type III : Retained materials is exlusively small fragment

Ilustration of Fragment Retained
ASTM D 4644

Before Test

After Test

Fragment Type Retained :
Type II :Retained materials consist of large and small pieces

APPENDIX - C

JAKARTA – BANDUNG HIGH SPEED RAILWAY PROJECT
FEASIBILITY STUDY PHASE-I

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: JL.INSPEKSI TARUM BARAT KALI MALANG	
CLIENT	: JICA Study Team	

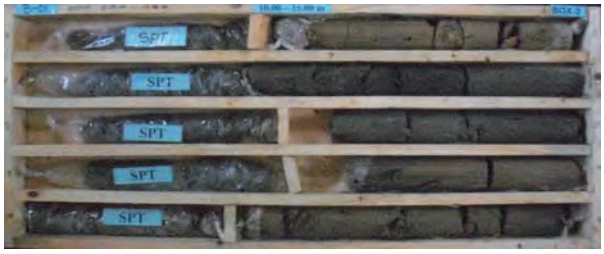
BORING ACTIVITY PHOTOGRAPH B-1

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS, PT.
LOCATION	: JL.INSPEKSI TARUM BARAT KALI MALANG	SOIL INVESTIGATION, SURVEY AND ENGINEERING SERVICES
CLIENT	: JICA Study Team	

CORE BOX PHOTOGRAPH B-1

B-1 Box 1 Depth 0.00 - 5.00 m.

B-1 Box 2 Depth 5.00 - 10.00 m.



B-1 Box 3 Depth 10.00 - 15.00 m.

B-1 Box 4 Depth 15.00 - 20.00 m.

B-1 Box 5 Depth 20.00 - 21.45 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: JL.INSPEKSI TARUM BARAT KALI MALANG	
CLIENT	: JICA Study Team	

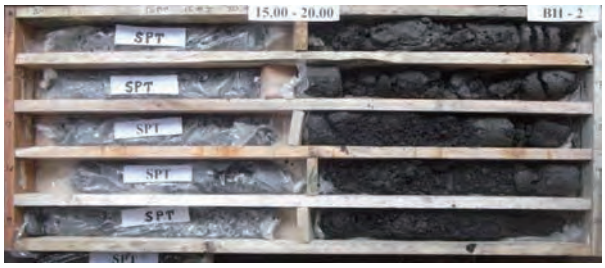
BORING ACTIVITY PHOTOGRAPH B-2

CORE BOX PHOTOGRAPH B-2

B-2 Box 1 Depth 0.00 - 5.00 m.

B-2 Box 2 Depth 5.00 - 10.00 m.

B-2 Box 3 Depth 10.00 - 15.00 m.



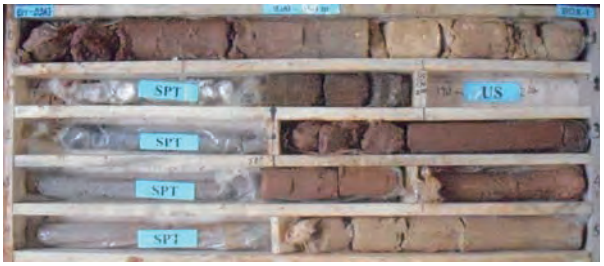
B-2 Box 4 Depth 15.00 - 20.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: JL.RAYA JATI MULYA,JATI MULYA, BEKASI
CLIENT	: JICA Study Team

SOILENS

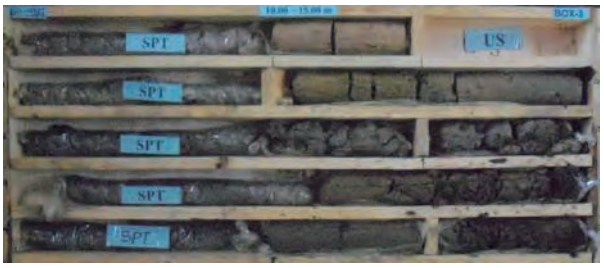
BORING ACTIVITY PHOTOGRAPH B-3

CORE BOX PHOTOGRAPH B-3



BH-3 Box 1 Depth 0.00 - 5.00 m.

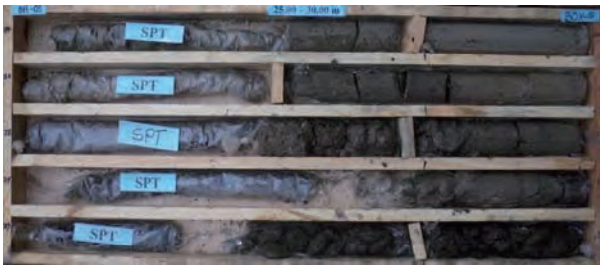
BH-3 Box 2 Depth 5.00 - 10.00 m.



BH-3 Box 3 Depth 10.00 - 15.00 m.

BH-3 Box 4 Depth 15.00 - 20.00 m.

BH-3 Box 5 Depth 20.00 - 25.00 m.



BH-3 Box 6 Depth 25.00 - 30.00 m.

BH-3 Box 7 Depth 30.00 - 35.00 m.

BH-3 Box 8 Depth 35.00 - 40.00 m.

BH-3 Box 9 Depth 40.00 - 45.00 m.

BH-3 Box 10 Depth 45.00 - 50.00 m.

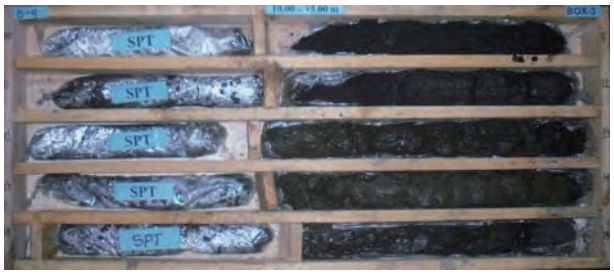
PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: JL.KH.AHMAD,MARIUK,GANDASARI,CIKARANG BARAT	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-4

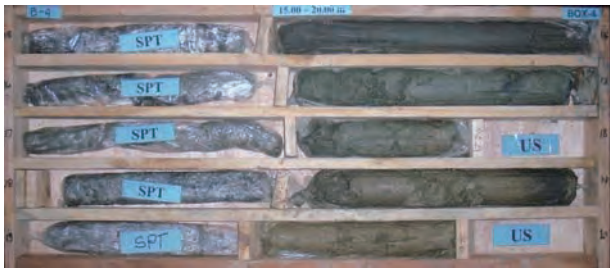
CORE BOX PHOTOGRAPH BH-4

BH-4 Box 1 Depth 0.00 - 5.00 m.

BH-4 Box 2 Depth 5.00 - 10.00 m.

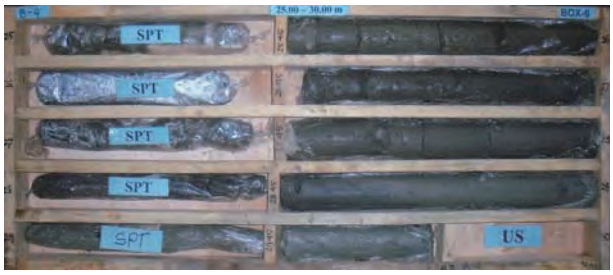


BH-4 Box 3 Depth 10.00 - 15.00 m.



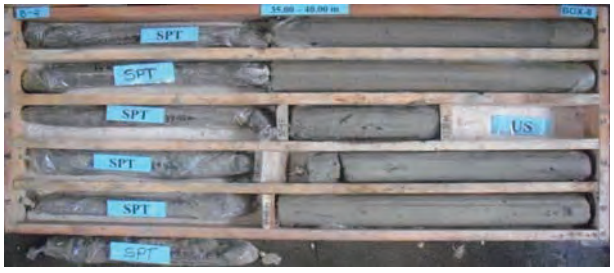
BH-4 Box 4 Depth 15.00 - 20.00 m.

BH-4 Box 5 Depth 20.00 - 25.00 m.



BH-4 Box 6 Depth 25.00 - 30.00 m.

BH-4 Box 7 Depth 30.00 - 35.00 m.



BH-4 Box 8 Depth 35.00 - 40.00 m.

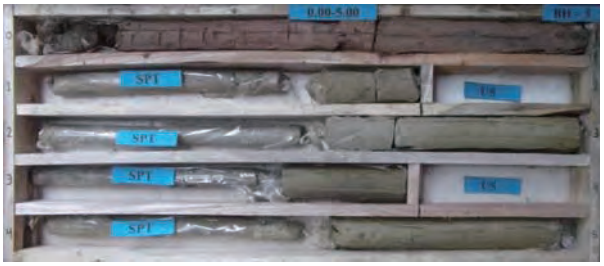
BH-4 Box 9 Depth 40.00 - 45.00 m.

BH-4 Box 10 Depth 45.00 - 50.00 m.

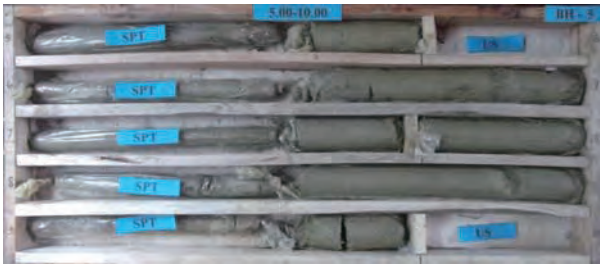
PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: JL.INSPEKSI TARUM BARAT	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-5

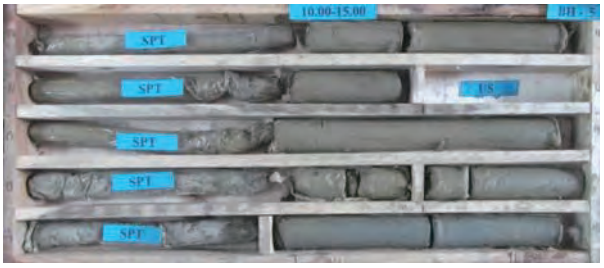
CORE BOX PHOTOGRAPH B-5



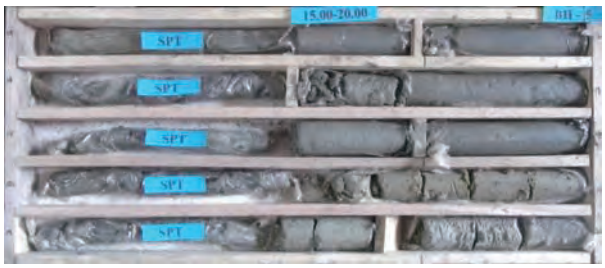
B-5 Box 1 Depth 0.00 - 5.00 m.



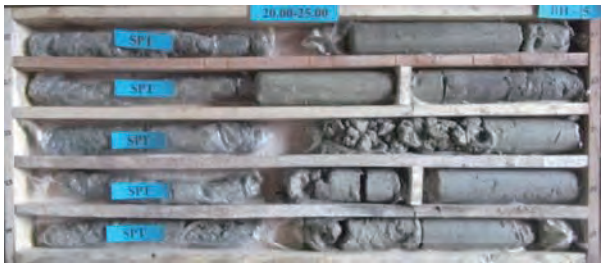
B-5 Box 2 Depth 5.00 - 10.00 m.



B-5 Box 3 Depth 10.00 - 15.00 m.



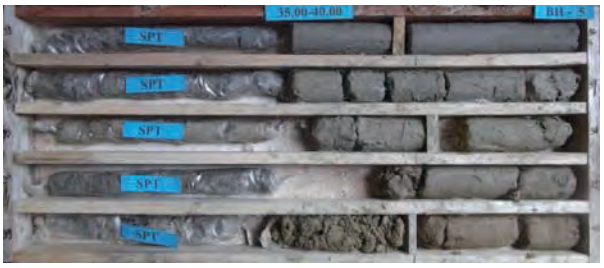
B-5 Box 4 Depth 15.00 - 20.00 m.



B-5 Box 5 Depth 20.00 - 25.00 m.

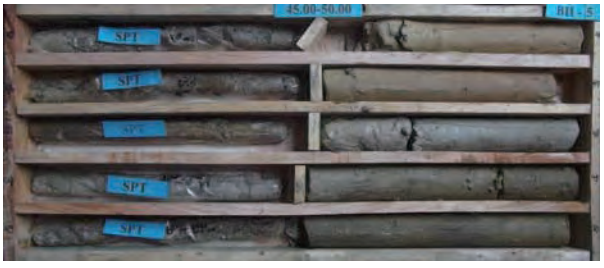
B-5 Box 6 Depth 25.00 - 30.00 m.

B-5 Box 7 Depth 30.00 - 35.00 m.



BH- Box 8 Depth 35.00 - 40.00 m.

B-5 Box 9 Depth 40.00 - 45.00 m.



B-5 Box 10 Depth 45.00 - 50.00 m.

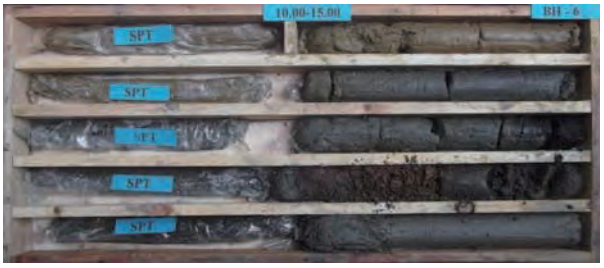
PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: CIBEET CANAL,SUKASARI, TELUK JAMBE, KARAWANG	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-6

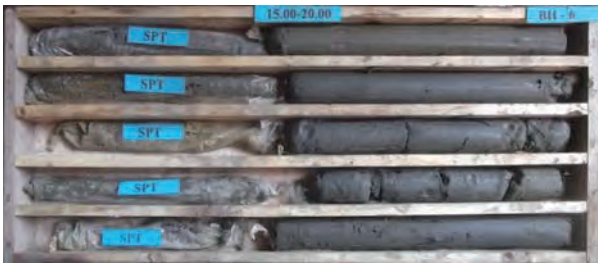
CORE BOX PHOTOGRAPH B-6

B-6 Box 1 Depth 0.00 - 5.00 m.

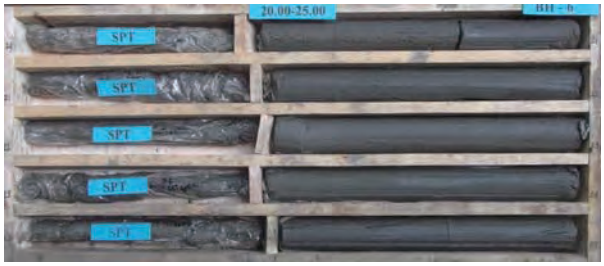
B-6 Box 2 Depth 5.00 - 10.00 m.



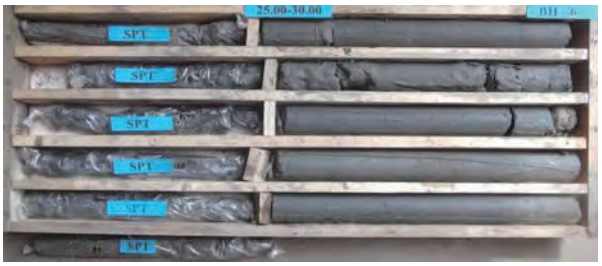
B-6 Box 3 Depth 10.00 - 15.00 m.



B-6 Box 4 Depth 15.00 - 20.00 m.



B-6 Box 5 Depth 20.00 - 25.00 m.



B-6 Box 6 Depth 25.00 - 30.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: DUSUN CICADAS,DS.WANAKERTA, TELUK JAMBE BARAT	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-7

CORE BOX PHOTOGRAPH B-7

B-7 Box 1 Depth 0.00 - 5.00 m.

B-7 Box 2 Depth 5.00 - 10.00 m.

B-7 Box 3 Depth 10.00 - 15.00 m.

B-7 Box 4 Depth 15.00 - 20.00 m.

B-7 Box 5 Depth 20.00 - 25.00 m.

B-7 Box 6 Depth 25.00 - 30.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: DUSUN NAROTOG,DS.TEGALEGA,CIAMPEL,KARAWANG	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-8

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: DUSUN NAROTOG,DS.TEGALEGA,CIAMPEL,KARAWANG
CLIENT	: JICA Study Team

SOILENS, PT.
SOIL INVESTIGATION, SURVEY AND ENGINEERING SERVICES

CORE BOX PHOTOGRAPH B-8

B-8 Box 1 Depth 0.00 - 5.00 m.

B-8 Box 2 Depth 5.00 - 10.00 m.

B-8 Box 3 Depth 10.00 - 15.00 m.

B-8 Box 4 Depth 15.00 - 20.00 m.

B-8 Box 5 Depth 20.00 - 25.00 m.

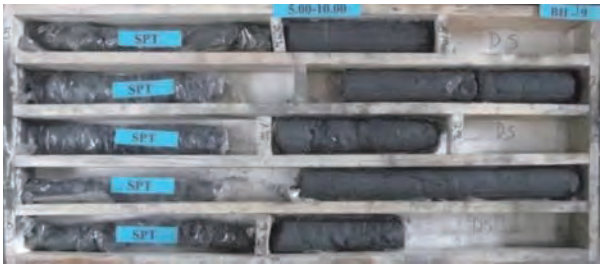
B-8 Box 6 Depth 25.00 - 30.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: KP.SAWAH,CICADAS,BABAKAN CIKAO	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-9

CORE BOX PHOTOGRAPH B-9

B-9 Box 1 Depth 0.00 - 5.00 m.



B-9 Box 2 Depth 5.00 - 10.00 m.

B-9 Box 3 Depth 10.00 - 15.00 m.

B-9 Box 4 Depth 15.00 - 20.00 m.

B-9 Box 5 Depth 20.00 - 21.45 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: NEGLASARI,JATILUHUR, PURWAKARTA	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-10

CORE BOX PHOTOGRAPH B-10

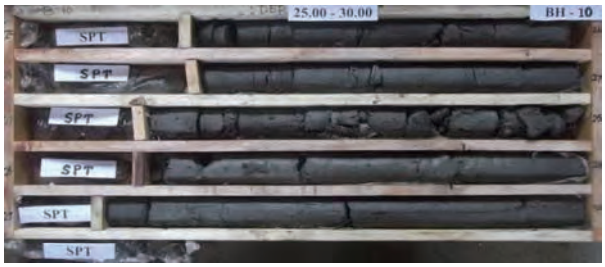
B-10 Box 1 Depth 0.00 - 5.00 m.

B-10 Box 2 Depth 5.00 - 10.00 m.

B-10 Box 3 Depth 10.00 - 15.00 m.

B-10 Box 4 Depth 15.00 - 20.00 m.

B-10 Box 5 Depth 20.00 - 25.00 m.



B-10 Box 6 Depth 25.00 - 30.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: Desa Cisuren, Ciganea
CLIENT	: JICA Study Team

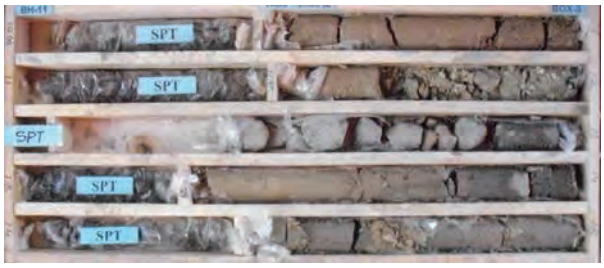
SOILENS, PT.
SOIL INVESTIGATION, SURVEY AND ENGINEERING SERVICES

MOVING ACTIVITY PHOTOGRAPH B-11

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: KP.CISUREN,DESA MEKARGALIH,PURWAKARTA	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-11

CORE BOX PHOTOGRAPH B-11



B-11 Box 1 Depth 0.00 - 5.00 m.

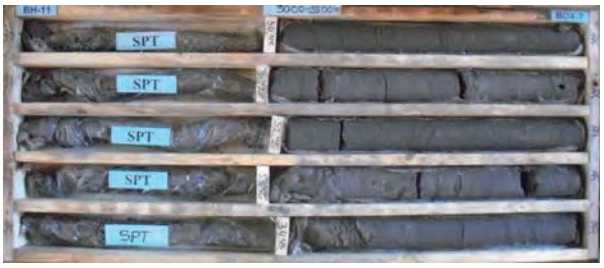
B-11 Box 2 Depth 5.00 - 10.00 m.

B-11 Box 3 Depth 10.00 - 15.00 m.

B-11 Box 4 Depth 15.00 - 20.00 m.

B-11 Box 5 Depth 20.00 - 25.00 m.

B-11 Box 6 Depth 25.00 - 30.00 m.



B-11 Box 7 Depth 30.00 - 35.00 m.

B-11 Box 8 Depth 35.00 - 40.00 m.

B-11 Box 9 Depth 40.00 - 45.00 m.

B-11 Box 10 Depth 45.00 - 50.00 m.

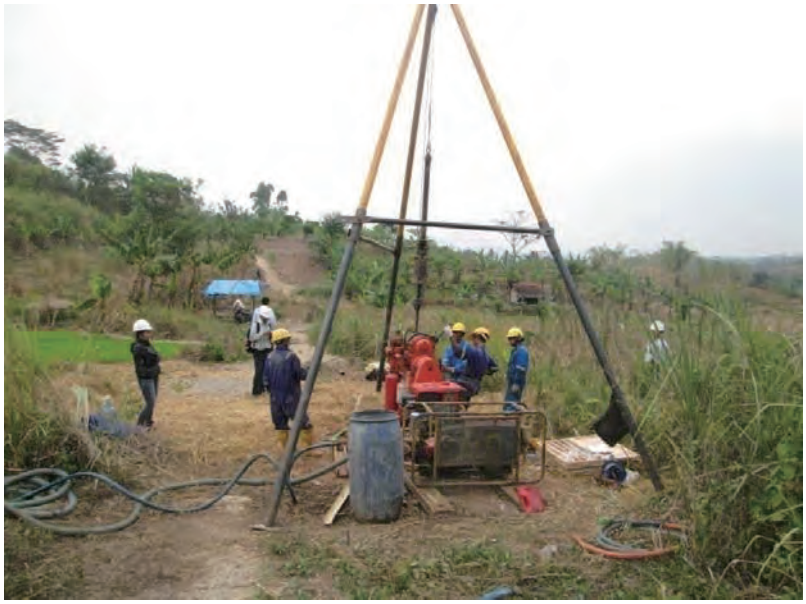
PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: Desa Cianting
CLIENT	: JICA Study Team

SOILENS, PT.
SOIL INVESTIGATION, SURVEY AND ENGINEERING SERVICES

MOVING ACTIVITY PHOTOGRAPH B-12

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: PASAR MUNJUL,SUKATANI,CIANTING,PURWAKARTA	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-12



CORE BOX PHOTOGRAPH B-12

B-12 Box 1 Depth 0.00 - 5.00 m.

B-12 Box 2 Depth 5.00 - 10.00 m.

B-12 Box 3 Depth 10.00 - 15.00 m.

B-12 Box 4 Depth 15.00 - 20.00 m.

B-12 Box 5 Depth 20.00 - 25.00 m.

B-12 Box 6 Depth 25.00 - 30.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: Desa Darangdan, Purwakarta
CLIENT	: JICA Study Team

SOILENS, PT.
SOIL INVESTIGATION, SURVEY AND ENGINEERING SERVICES

MOVING ACTIVITY PHOTOGRAPH B-13

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: TANAH PASIR,DARANGDAN, PURWAKARTA	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-13

CORE BOX PHOTOGRAPH B-13

B-13 Box 1 Depth 0.00 - 5.00 m.

B-13 Box 2 Depth 5.00 - 10.00 m.

B-13 Box 3 Depth 10.00 - 15.00 m.

B-13 Box 4 Depth 15.00 - 20.00 m.

B-13 Box 5 Depth 20.00 - 25.00 m.

B-13 Box 6 Depth 25.00 - 30.00 m.

B-13 Box 7 Depth 30.00 - 35.00 m.

B-13 Box 8 Depth 35.00 - 40.00 m.

B-13 Box 9 Depth 40.00 - 45.00 m.

B-13 Box 10 Depth 45.00 - 50.00 m.

CORE BOX PHOTOGRAPH B-13

B-13 Box 11 Depth 50.00 - 55.00 m.

B-13 Box 12 Depth 55.00 - 60.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: DESA BOJONGKONENG, KEC. NGAMPRAH	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-14

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: DESA BOJONGKONENG, KEC. NGAMPRAH
CLIENT	: JICA Study Team

SOILENS, PT.
SOIL INVESTIGATION, SURVEY AND ENGINEERING SERVICES

CORE BOX PHOTOGRAPH B-14

B-14 Box 1 Depth 0.00 - 5.00 m.

B-14 Box 2 Depth 5.00 - 10.00 m.

B-14 Box 3 Depth 10.00 - 15.00 m.

B-14 Box 4 Depth 15.00 - 20.00 m.

B-14 Box 5 Depth 20.00 - 25.00 m.

B-14 Box 6 Depth 25.00 - 30.00 m.

B-14 Box 7 Depth 30.00 - 35.00 m.

B-14 Box 8 Depth 35.00 - 40.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT
LOCATION	: CITAMAN,CIGUGUR TENGAH,CIMINDI,CIMAHI
CLIENT	: JICA Study Team

SOILENS

BORING ACTIVITY PHOTOGRAPH B-15

CORE BOX PHOTOGRAPH B-15

B-15 Box 1 Depth 0.00 - 5.00 m.

B-15 Box 2 Depth 5.00 - 10.00 m.

B-15 Box 3 Depth 10.00 - 15.00 m.

B-15 Box 4 Depth 15.00 - 20.00 m.

B-15 Box 5 Depth 20.00 - 25.00 m.

B-15 Box 6 Depth 25.00 - 30.00 m.

B-15 Box 7 Depth 30.00 - 35.00 m.

PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: JALAN LASWI,MALEER,KACAPIRING,BANDUNG	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-16

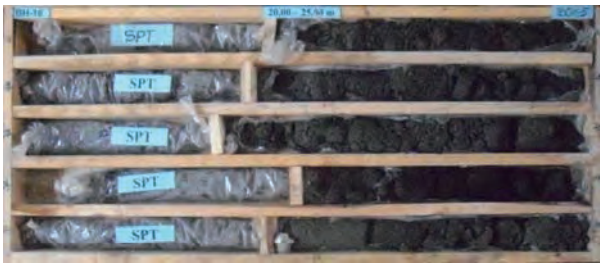
CORE BOX PHOTOGRAPH B-16

B-16 Box 1 Depth 0.00 - 5.00 m.

B-16 Box 2 Depth 5.00 - 10.00 m.

B-16 Box 3 Depth 10.00 - 15.00 m.

B-16 Box 4 Depth 15.00 - 20.00 m.



B-16 Box 5 Depth 20.00 - 25.00 m.

B-16 Box 6 Depth 25.00 - 30.00 m.

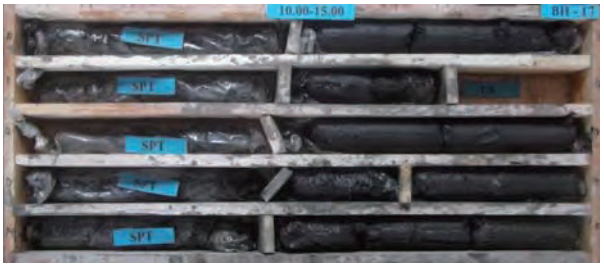
PROJECT	: JAKARTA-BANDUNG HIGH SPEED RAILWAY PROJECT	SOILENS
LOCATION	: CILAMETA,CIMENCRANG,GEDE BAGE,BANDUNG	
CLIENT	: JICA Study Team	

BORING ACTIVITY PHOTOGRAPH B-17

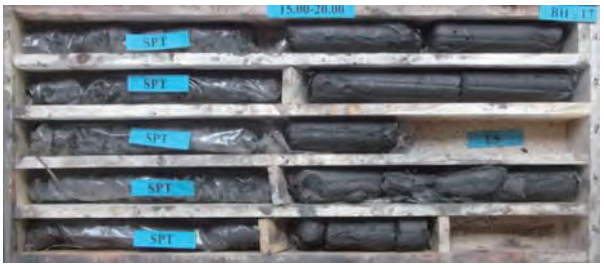
CORE BOX PHOTOGRAPH B-17

B-17 Box 1 Depth 0.00 - 5.00 m.

B-17 Box 2 Depth 5.00 - 10.00 m.

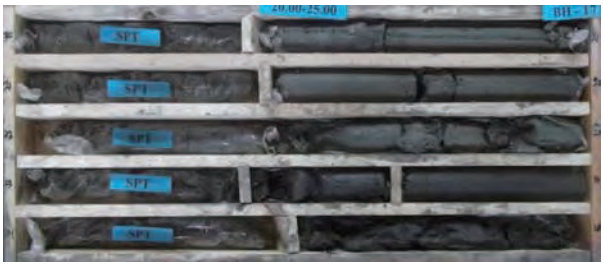


B-17 Box 3 Depth 10.00 - 15.00 m.



B-17 Box 4 Depth 15.00 - 20.00 m.

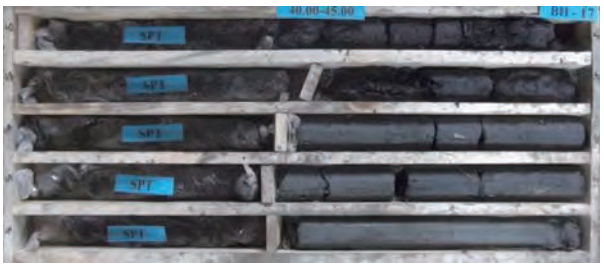
B-17 Box 5 Depth 20.00 - 25.00 m.



B-17 Box 6 Depth 25.00 - 30.00 m.

B-17 Box 7 Depth 30.00 - 35.00 m.

B-17 Box 8 Depth 35.00 - 40.00 m.



B-17 Box 9 Depth 40.00 - 45.00 m.

B-17 Box 10 Depth 45.00 - 50.00 m.

CORE BOX PHOTOGRAPH B-17

B-17 Box 11 Depth 50.00 - 55.00 m.

B-17 Box 12 Depth 55.00 - 60.00 m.

APPENDIX - D

JAKARTA – BANDUNG HIGH SPEED RAILWAY PROJECT
FEASIBILITY STUDY PHASE-I

CONVERSION FACTOR
U.S. customary to SI

To convert from	To	Multiply by
in	m	0.025 400
ft	m	0.304 800
Miles	kilometers	1.609344
Nautical Miles	kilometers	1.852
Yards	meters	0.9144
in^2	mm^2	645.160 000
ft^2	m^2	0.092 903
$Miles^2$	$kilometers^2$	2.58998810336
$Yards^2$	$meters^2$	0.83612736
in^3	m^3	$16.387\ 064 \times 10^{-6}$
ft^3	m^3	$28.316\ 847 \times 10^{-3}$
quart (U.S. liquid)	liter (1 000 mm^3)	0.946 353
gallon (U.S. liquid)	m^3	$3.785\ 412 \times 10^{-3}$
in^4	cm^4	41.623 143
cm^4	m^4	$1.000\ 000 \times 10^{-8}$
ft^4	m^4	$8.360\ 975 \times 10^{-3}$
gram	dyne	980.665 000
kg (force or mass)	N	9.806 650
lb (mass)	kg (mass)	0.453 592
kips (1000 lbs)	kN	4.448 222
kip/ft	kN/m	14.593 904
lb/ft	kg/m	1.488 164
kg/m^2	N/m^2 (pascal)	9.806 650
kg/cm^2	kN/m^2 (kPa)	98.066 500
tons/ft^2 (tsf)	kN/m^2	107.639 104
kip/ft^2 (ksf)	kN/m^2 (kPa)	47.880 260
lb/ft^2 (psf)	kN/m^2 (kPa)	0.004 788
lb/in^2 (psi)	kN/m^2 (kPa)	6.894 757
lb.in (torque)	N. m	0.112 985
lb.ft	N. m	1.355 818
kip. ft	kN. m	1.355 818
ft. lb (energy or work)	joule	1.355 818
cal. g (International value)	joule	4.186 800
lb/ft^3 (pcf)	kg/m^3	16.018 460
lb/ft^3 (pcf)	kN/m^3	0.16018 460
kip/ft^3 (kcf)	kN/m^3	157.087 616
tons/ft^3 (tcf)	kN/m^3	353.147 667

CONVERSION FACTOR
U.S. customary to SI

To convert from	To	Multiply by
g/cm^3	lb/ft^3	62.427 900
g/cm^3	kN/m^3	9.806 650
tonne	kN	9.806 650
MPa	kPa	$1.000\ 000 \times 10^3$
Bar	kPa	100.000
Atmosphere	kPa	101.325

EQUIPMENT and PROCEDURES

1. Static Cone Penetration or Sounding

Equipment :
- 10-ton capacity, engine driven hidraulic Dutch static cone penetrometers.(2 units)
- 2-ton capacity, Dutch static cone penetrometers. (11 units)
- standard jacket cones, 10 cm^2 cone base area and 60^0 apex angle
- be-cone or friction/adhesion jacket cones, 10 cm^2 cone base area and 60^0 apex angle.

Procedure :
- LGM mededelingen
- ASTM D3441
- FHWA TS-78-209
- JIS A1221

2. Machine Boring

Equipment :
- Longyear "24" Standard Drills. (34 units)
- Longyear "34" Diamond Core Drills. (1 unit)
- Longyear "38" Diamond Core Drills. –
- Longyear "44" Diamond Core Drills. (1 unit)
- Acker Ace model W Diamond Core/Soil Sampling Drills. (2 units)
- Mindrill Diamond Drilling Machine type "8" model F30R. (1 unit)
- Longyear 535-RQ 5-speed pumping units, 35 gpm (132 liters per minut) rate volume, 800 psi (56 kg/cm^2) rated pressure. (25 units)
- Gardner-Denver duplex power pump, double acting, piston-type, 257 gpm displacement, 475 psi (33.4 kg/cm^2) pressure. (1 unit)
- Wire line hoist, gasoline powered model
- Flight augers
- Single tube core barrels
- Swivel type double tube core barrels
- Standard and retactable/pitcher triple tube core barrels
- Triple tube wire line core barrels
- Solid and broken tungsten carbide bits
- Diamond and tungsten carbide reaming shells
- Standard drilling accessories
- Audio water level indicators
- Drilling Muds

Procedure :
- ASTM D420, D1452, D2113
- AASHTO T86, T203, T225
- ASBR E1, E2
- BS 4019, CP2001

3. Hand Boring *(8 units)*

Equipment :
- Lightweight motorized hoist/cathead
- Gasoline powered portable diamond core drills
- Portable soil sampling kit
- Iwan type and flight augers
- Single tube core barrels
- Steel ang tungsten carbide bits
- Pumping units

Procedure : - ASTM D420, D1452
- AASHTO T86, T203
- USBR E1, E2
- BS CP2001

4. Standard Penetration Test, *(many)*

Equipment : - 2" O.D. x 1 3/8" I.D. split tube samplers
- 140 lb. Hammer, 30 inch failing height

Procedure : - ASTM D420, D1586
- AASHTO T206
- USBR E21
- BS 1377, CP2001
- JIS A1219
- M.J. Hvorviev : Subsurface Exploration and Sampling of Soils

5. Undisturbed Sampling, *(many)*

Equipment : - Thin wall Shelby/Chicago tube samplers
- Split tube samplers with liner
- Split tube samplers with ring liners
- Split tube samplers or triple tube core barrels
- Stationary piston samplers
- Denison samplers/core barrels

Procedure : - ASTM D420, D1587, D3550
- AASHTO T207
- USBR E2
- BS CP2001

6. Field Vane Shear, *(2 units)*

Equipment : - Field vane shear test kits, various size blades
- Precision torque heads
- Torque wrenches

Procedure : - ASTM D420, D2573
- AASHTO T223
- USBR E20
- BS 1377
- Mafacturer's test procedure bulletin

7. Field Permeability, *(many)*

Equipment : - Mechanical, hydraulic and air packer test equipment
- Pumping units

Procedure : - USBR E18, G97
- Standard procedures for percolation test
- Standard procedurer for pumping test

8. Grouting, *(3 units)*

Equipment : - Grouting mixers
- Grouting pumps

Procedure : - Standard procedures for grouting test

9. Soil Classification and Identification, *(many)*

Equipment :
- Torvane shear devices, with sensitive and high capacity vane adapters
- Pocket penetrometers, with foot adapters for low shear strength
- Sand grading charts
- Soil color charts
- Tropical soil color charts
- Gley color charts
- Eley volumeters
- Microscope

Procedure :
- Unified soil classification system
- Casagrande soil classification for airfiled projects
- FAA method of soil and subgrade classification
- ASTM C119, D420, D653, D2487, D2488, D3282
- AASHTO M145
- USBR E1, E2, E3
- BS CP2001, CP2003

10. Water Content Determination, *(many)*

Equipment :
- Drying ovens, thermostatically controlled
- Analytical balances, sensitive to 0.01 gram
- Humidifier and humidistat controller
- Speed desicators

Procedure :
- ASTM D2216
- USBR E9
- BS 1377

11. Speed Moisture Content Determination, *(8 units)*

Equipment :
- Automatic moisture determination balances, a combination 250 watt infrared lamp drying unit and magnetically damped precision balance, with a full range direct reading optical scale
- Speedy moisture testers, calcium carbide gas pressure moisture testers

Procedure :
- Manufacturer's test procedure for the automatic moisture determination balance
- AASHTO T217

12. Bulk and Dry Density, *(many)*

Equipment :
- Cylender
- Analytical balances, sensitive to 0.01 gram

Procedure :
- Standard procedure for bulk and dry density test

13. Specific Gravity, *(many)*

Equipment :
- Pycnometers
- Centrifuge
- Semi-micro analytical balances, precision 0.01 milligram
- Specific gravity test sets

Procedure :
- ASTM D854, C127, C128
- AASHTO T84, T85, T100
- USBR E5, E10
- BS 1377

14. Atterberg Limits, *(20 units)*

Equipment :
- Motorized liquid limit devices with counter
- Standard Casagrande liquid limit devices with counter
- ASTM grooving tools
- Casagrande grooving tools
- Plastic limits sets
- Cone penetrometers for liquid limit determination

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D421, D423, D424, D2217
- AASHTO T87, T89, T90, T146
- USBR E5, E7
- BS 1377
- JIS A1205, A1206
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

15. Shrinkage Limit, *(20 units)*

Equipment :
- Monel shrinkage dishes
- Crystallizing dishes
- Prong plates

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D421, D427, D2217
- AASHTO T87, T92, T146
- USBR E5, E7
- BS 1377
- JIS A1207
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

16. Soil Volume Change and Swelling/Uplift Pressure, *(8 units)*

Equipment :
- Soil volume change meter (FHA Soil Potential Volume Change Meter/PVC)
- Accessory kit for soil volume change meter

Procedure :
- ASTM D3877

17. Grain-Size Analysis, *(many)*

a. Sieve Analysis

Equipment :
- Series of U.S. Standard sieves, ASTM Specification E11 or AASHTO Specification M92
- Pocket interchanges sieves
- Wet washing sieves
- Wet washing spray attachments
- Samplersplitters (riffles), complete with double sample splitters attachment and release chute
- Precision sample splitters
- Motorized dynamic sieve shakers
- Ro-tap sieve shakers
- Motorized sieve shakers

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM E11, C136, D421,D422, D1140, D2217
- AASHTO M92, T11, T27, T87, T146
- USBR E5, E6
- BS 1377
- JIS A1207
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

b. Hidrometer Analysis, *(many)*

Equipment :
- Improved soil hydrometers, ASTM-AASHTO scale 151-H and 152-H
- Mechanical analysis strirrers
- Air jet dispersion cup, type-B
- Hydrometerjar bath, electric, thermostatically controlled
- Dispering agents

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM E100,D421,D422, D2217
- AASHTO T87, T88, T146
- USBR E5, E6
- BS 1377
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

18. Unconfined Compression, *(5 units)*

Equipment :
- 1- ton capacity portable compression tests machines, motorized with multi-speed drive unit, 25 rates of speed ranging 1.52 to 0.00062 millimeter/minute, with unconfined attachments
- Motorized unconfined compression apparatus, multi-speed drive unit 0.2 to 0.0 millimeter/minute
- Hydraulic unconfined apparatus
- Autograp spring loading unconfined compression apparatus

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D2166
- AASHTO T208
- BS 1377
- JIS A1216
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

19. Triaxial Compression, *(6 units)*

Equipment :
- 5- ton capacity triaxial compression machine, motorized with multi-speed drive unit, 30 rates of feed ranging from 0.300 to 0.000024 inch/minute
- Bishop type manual pore-pressure measurement devices, complete with volume change indicator single or twin burette type and single unit constant pressure apparatus
- Null indicators

- Self compensating mercury control constant pressure systems
- Oil dash pot constant pressure systems
- Automatically controlled, fully self-contained electro-hydraulic constant pressure systems

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- A.W. Bishop and D.J. Henkel, The Measurement of Soil Properties in the Triaxial Test
- ASTM D2850
- AASHTO T234
- USBR E17
- BS 1377
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

20. Direct Shear, *(3 units)*

Equipment :
- Automatic direct shear apparatus, multi-speed drive unit
- Motorized direct shear apparatus, with multi-speed drive unit

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D3080
- AASHTO T236
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

21. Consolidation, *(many)*

Equipment :
- Floating and fixed ring consolidation apparatus

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D2435
- AASHTO T216
- USBR E15
- BS 1377
- JIS A1217
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

22. Coefficient of Permeability, *(2 units)*

Equipment :
- Combination constant and faling head permeameters
- Compaction permeameters

Procedure :
- T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D2434
- AASHTO T215
- USBR E13, E14
- JIS A1218
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

23. Modulus of Elasticity, *(many)*

Equipment : - Fixed ring consolidometers

Procedure : - Saturated and unsaturated
- Repeat loading

24. Relative Density of Cohesionless Soils, *(2 units)*

Equipment : - Complete relative density set
- Vibratory table
- 0.1and 0.5 cu. ft. molds

Procedure : - ASTM D2049
- USBR E1, E12
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

25. Compaction, *(many)*

Equipment : - Standard Proctor compaction equipment
- Modified Proctor/AASHTO compaction equipment
- Automatic mechanical compactor
- Bench mounting mixer

Procedure : - T.W. Lambe, Soil Testing for Engineers
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D558, D698, D1557, D1558
- AASHTO T99, T134, T180, T224
- USBR E1, E11
- BS 1377, 1924, CP2003
- JIS A1210, A1211
- U.S. Army Engineer Waterways Experiment Station (WES), Engineer Manual EM 1110-2-1906

26. Laboratory C.B.R. , *(many)*

Equipment : - Mechanical laboratory C.B.R. sets
- Hydraulic laboratory C.B.R. sets
- 5-ton capacity compression machines, motorized with multi-speed drive unit, 30 speed 0.300 to 0.000024 inch/minute, complete with C.B.R. test attachments, plunger guide brackets with anti-friction bearings

Procedure : - U.S. Corps of Engineers TM5-852-6
- Joseph E. Bowles, Engineering Properties of Soils and Their Measurement
- ASTM D1883
- AASHTO T193
- USBR E1, E2
- BS 1377, 1924
- JIS A1217

27. Field C.B.R. , *(many)*

Equipment : - Mechanical field C.B.R. sets
- Portable field C.B.R. test sets
- Portable field ovens and field stoves
- Table platform scales

Procedure :
- U.S. Corps of Engineers procedure
- ASTM suggested method
- The Asphalt Institute procedure
- JIS A1211

28. In-Place Density and Compaction Control, *(20 units)*

Equipment :
- U.S. Corps of Engineers surface soil samplers
- Tube density samplers
- Volumeassures using rubber balloon method
- Sand density cones
- Proctor penetrometer assembly
- Proving ring penetrometers
- Portable field ovens and field stoves
- Speedy moisture testers, calcium carbide gas pressure moisture testers
- Table platform scales
- Heavy duty solution balances

Procedure :
- ASTM D1556, D1558, D2167, D2937
- AASHTO T147, T191, T204, T205, T217, T224
- USBR E22, E24, E25
- BS 1377, 1924 CP2003
- JIS A1214

29. Plate Bearing, *(10 units)*

Equipment :
- Plate bearing test sets, with bearing palte of varios sizes
- 15-ton capacity field loading jacks and proving rings
- 50-ton capacity field loading jacks and gauges
- 130-ton capacity field loading jacks and gauges
- 200-ton capacity field loading rams, pumps and gauges
- Spherical bearing attachments

Procedure :
- ASTM D1194, D1195, D1196
- AASHTO T221, T222, T235
- MIL-STD-621A, Method 104
- ICAO Aerodrome Manual
- BS CP2001
- AIJ (Architectural Institute of Japan), Structural Standards
- JIS A1215

30. Pile Bearing, *(4 units)*

Equipment :
- Load settlement sets for piles
- 130-ton capacity field loading jacks and gauges
- 200-ton capacity field loading rams, pumps and gauges

Procedure :
- ASTM D1143
- USBR E26
- AIJ (Architectural Institute of Japan), Structural Standards

31. Abrasion of Aggregate, *(1 unit)*

Equipment :
- Los Angeles abrasion machine
- Abrasion charges
- U.S. Standard sieves

Procedure : - ASTM C131, C535
- AASHTO T96
- BS 598
- JIS A1121

32. Aggregate Quality, *(2 units)*

Equipment : - Sand equivalent test sets
- Mechanical sand equivalent shaker
- Sand grading charts
- Film stripping devices
- Specific gravity test sets

Procedure : - ASTM C88, C97, C126, C127, C170, D1664, D2419
- AASHTO T84, T85, T104, T176
- BS 812

33. Asphaltic Materials, *(6 units)*

Equipment : - Test set for penetration of bituminous material
- Universal penetrometer with timer
- ASTM type penetrometer needles with shank
- Softening point apparatus
- Ductility test set for bituminous materials
- Viscosity test set
- Flash test set and Cleveland flash point cups
- Loss on heating of bituminous substances
- Bitumen soluble in carbon tetrachloride set

Procedure : - ASTM D4, D5, D6, D36, D70, D88, D92, D113, D2042, D2170
- AASHTO T44, T45, T47, T48, T49, T51, T53, T182, T201, T228
- BS 3235, 4690, 4691, 4692, 4693, 4703, 4707

34. Asphaltic-Aggregate/BituminousMixtures & Stability and Mix Design, *(6 units)*

Equipment : - Marshall stability compression machines
- Pavement diamond core drilling machines
- Thin wall open head type diamond core bits
- Rock diamond saw machine
- Water bath
- Metal thermometers
- Stability compaction equipment
- Stability molds
- Asphalt flow indicators
- Laboratory crusher
- Semi-automatic tailer pillar balances

Procedure : - ASTM D979, D1559
- AASHTO T168, T245
- Highway Research Board, Bulletin 275, 1960
- The Asphalt Institute, M52 and The Asphalt Handbook
- BS 594, 598

35. Quantitative Extraction of Bitument, *(8 units)*

Equipment : - Centrifuge extractors
- Reflux extractors

- Bitument recovery apparatus
- Filtration assembly

Procedure :
- ASTM D2172
- AASHTO T164
- BS 1924

36. Concrete and Cement, *(4 units)*

Equipment :
- Concrete compression testing machines
- Flexure attachments
- Schmidt concrete test hammers
- 6-inch cube sets
- Concrete mixer
- Vibrator
- Metal cylinder molds
- Cube molds
- Capping sets
- Concrete capping compound
- Beam forms
- Concrete curing tank
- Slump test sets
- Flow tables
- Vicat test sets
- Concrete-rock-masonry saw
- U.S. Standard sieve set

Procedure :
- ASTM C31, C39, C42, C61, C78, C143, C191, C192, C293, C683, C684, C805
- AASHTO T122, T23, T24, T97, T119, T126, T131
- ACI 613-54
- BS 1881

37. Flexible Pavement Evaluation, *(1 unit)*

Equipment :
- AASHTO type Benkleman Beam

Procedure :
- AASHTO T25

38. Pile Dynamic Analyzer, (1 unit)

Procedure :
- ASTM D4945

TERMS and SYMBOLS

As recommended by the International Society of Soil Mechanics and Foundation Engineering, as adopted in Paris, July 1961, with some modifications.

γ_m = volumetric weight, bulk density

γ_s = unit weight of soil solids particles

γ_w = unit weight of water

γ_d = dry density

Gs = specific gravity of the soil solids

$= \frac{\gamma_s}{\gamma_w}$

w_{opt} = optimum water content

w_N = natural water content

e_o = void ratio

n = porosity

S_r = degree of saturation

LI = Liquidity Index

wL = liquid limit

wP = plastic limit

IP = plasticity index

ws = shrinkage limit

D_s = degree of shrinkage

R_s = shrinkage ratio

L_s = linear shrinkage

D_{10} = effective size

C_u = unformity coefficient

q_u = unconfined compressive strength

$S_t = \frac{\text{undisturbed\_}q_u}{\text{remoulded\_}q_u} = \text{sensitivity}$

c = apparent cohesion

$\underline{\phi}$ = apparent angle of internal friction

$\underline{c}$ = true or intergranular cohesion

ϕ = true or intergranular angle of internal friction

k = coefficient of permeability

D_r = relative density

E_u = unsaturated modulus of elasticity

E_s = saturated modulus of elasticity

c_c = compression index

c_v = coefficient of consolidation

c_r = recompression index

c_s = swelling index

c_u = undrained shear strength

Appendix 3

On-Site Meeting and Conference

Appendix-3 On-Site Meeting and Conference

In order to confirm the intention of Implementation Agency and Relative Agencies, to explain & discuss the business scheme and the implementation structure, to understand the technical level of Indonesia, to explain Japan's HSR System, to confirm the route alignment and station location and to collect the data of the target area, on-site meeting were implemented. The main meeting and conference are shown in Table A3-1.

Table A3-1 List for the Main Meeting & Conference "Stage I"

Stage I

No.	Date	Organization or Agenda	Other Person
I-1	2014/1/15	JICA Indonesia	Sr. Representative Mr. Matsunaga, Representative Mr. Ihara
I-2	2014/1/15	Embassy of Japan	First Secretary Mr. Kamite
I-3	2014/1/20	Embassy of Japan	Minister Mr. Ushio、First Secretary Mr. Kamite
I-4	2014/1/23	JICA Indonesia	Sr. Representative Mr. Matsunaga, Representative Mr. Ihara
I-5	2014/1/23	DGR Ministry of Transportation	Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway)
I-6	2014/1/23	Coordination Ministry of Economic Affairs	Mr. Luky Eko Wuryanto (Deputy Minister) Mr. Tulus Hutagalung (Assistant to the Deputy Minister)
I-7	2014/1/23	BAPPENAS	Mr. Bastary Pandji Indra (Director of PPP)
I-8	2014/1/28	1st HSR Coordination Meeting Kick Off Meeting	Refer to Table A3-3.
I-9	2014/1/30	NEXCO West Japan	Mr. Wada
I-10	2014/2/4	Bank of UFJ Tokyo Mitsubishi	Mr. Takahashi, Mr. Shimonishi Jakarta Branch: Mr. Sato, Mr. Penta Junianto
I-11	2014/2/6	PT. Mitrapacific Consulindo International	President Mr. Yamakawa
I-12	2014/2/7	Mitsubishi Heavy Industries	Mr. Ooki, PM Mr. Kameda
I-13	2014/2/10	DGR Ministry of Transportation	Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway) Mr. Heru (Deputy Director of Traffic & Railway)
I-14	2014/2/11	PT. KAI	Mr. Joko Margono (Managing Director of Logistic and Railway Assets)
I-15	2014/2/11	Bandung Institute of Technology Transportation Group	Professor Mr. Harun Rasyid Mr. Andri Slamet

I-16	2014/2/12	Bappeda West Java Physic Division	Mr. Indra P. Mr. Deny Hermawah Mr. Harymurtie Mr. Sismadani
I-17	2014/2/17	DKI Jakarta Department of City Planning	Mr. Jogi Harjudanto
I-18	2014/2/21	KOTA DELTA MAS-GIIC	Mr. Matsuo
I-19	2014/2/24	DGR, Ministry of Transportation	Refer to Table A3-4.
I-20	2014/2/25	PT. KAI Manggarai Workshop	Mr. Agung, Mr. Hery
I-21	2014/2/25	Bappeda Cikarang	Mr. Taufik (POD of Spatial Planning) Mr. Abdur (Chief of Spatial Planning)
I-22	2014/2/25	Bappeda Bekasi	Mr. Dadang (Director of Spatial Planning) Ms Rina (Chief of Spatial Planning)
I-23	2014/2/26	Bappeda Purwakarta	Mr. Budhi Sudarma
I-24	2014/3/3	PT. INKA PT. Rekaindo Global Jasa	Mr. Yunendar Aryo Handoko (Director of Commercial) Mr. Gede Agus Parayantha (Marketing General Manager) Mr. Suzuki
I-25	2014/3/3	PT. LEN (LEN Railways System)	Mr. Rustandi Amirse (Executive Vice President) Mr. Linus Andor Mulana Sijabat (Operation Director)
I-26	2014/3/3	Bappeda Bandung	Mr. Anton Sunarwibowo (Head of Spatial Planning and Infra. Division)
I-27	2014/3/4	Industrial Estate Association	Mr. Fahmi Shahab (Executive Director)
I-28	2014/3/4	Ministry of Public Works	Mr. Dedy Permadi (Director of Spatial Planning) Ms Wikanti Dewi (Spatial Planning City & Region)
I-29	2014/3/6	Mitsubishi Heavy Industries	PM Mr. Kameda, CM Mr. Hoan
I-30	2014/3/7	Coordination Ministry of Economic Affairs	Dr. Wahyu Utomo (Head of Program Intergration Division) JICA Representative Mr. Ihara
I-31	2014/3/11	Ministry of Transportation Civil Aviation	Mr. Syamsu Rizal (Director General)
I-32	2014/3/11	PT. KAI Depok Depot	Mr. Dodi (PT. KCJ)
I-33	2014/3/13	Ministry of Public Works Urban Planning & Development	Mr. Dadang Rukmana (Director) Mr. Eko Budi R. (Staff)
I-34	2014/3/17	Ministry of Environment	Mr. Ary Sudijanto (Director for EIA) Ms Laksmi Widyajayanti

I-35	2014/3/24	DGR Ministry of Transportation	Mr. Bambang Drajat (Deputy director of Railway)
I-36	2014/3/24	Bappeda Jakarta Capital City Government	Dr. Yurianto (Head of Division for Economic Affairs)
I-37	2014/3/26	PT. PLN	Mr. Andi Darmawati (Senior Manager Java Bail Transmission Planning Division of system Planning) Mr. suroso Isnandar (System Planning Division)
I-38	2014/4/3	Ministry of Environment	Refer to Table A3-5.
I-39	2014/4/4	DGR Ministry of Transportation	Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway)
I-40	2014/4/10	DGR Ministry of Transportation	Refer to Table A3-6
I-41	2014/4/14	DGR Ministry of Transportation	Mr. Heru (Deputy Director for Railway Network) Mr. Juanto, Ms Joice
I-42	2014/4/15	Bappeda DKI Jakarta	Dr. Mahendra
I-43	2014/4/19	Bappeda Weast Java	Refer to Table A3-7
I-44	2014/4/22	Embassy of Japan	Minister Ms Kijima、First Secretary Mr. Kamite
I-45	2014/4/24	2nd Joint Coordination Committee	Refer to Table A3-8
I-46	2014/5/5	Group Discussion for the Route Alignment	Dr. Wahyu Utomo (Head of Program Intergration Division), Mr. Widianto (DGR)
I-47	2014/5/19	BPJT Meeting	Mr. Abram Barus (Head of BPJT Technical Division) Mr. Primauran Avicenna (BPJT Technical Division Staff)
I-48	2014/6/2	CMEA	Dr. Wahyu Utomo (Head of Program Intergration Division)
I-49	2014/6/2	BBWSC	Mr. Adenan Rasyid
I-50	2014/6/5	DKI Jakarta, PU	Dr. Manggas Rudy Siahaan
I-51	2014/6/17	CMEA Bappenas DGR	Dr. Wahyu Utomo (Head of Program Intergration Division) Mr. Bastary Pandji Indra (Director of PPP) Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway)
I-52	2014/6/19	DGR Rolling Stock	Ir. Dwi Budi Sutrisno (Director of Rolling Staock) Mr. Azahari (Head of Sub Directorate of Rolling Stocks) Mr. Widianto
I-53	2014/6/23	DGR Rolling Stock	Ir. Dwi Budi Sutrisno (Director of Rolling Staock) Mr. Azahari (Head of Sub Directorate of Rolling Stocks)

			Mr. Widianto
I-54	2014/6/24	CMEA, Bappenas, DGR West Java Route Alignment and Station Location	Dr. Wahyu Utomo (Head of Program Intergration Division) Mr. Bastary Pandji Indra (Director of PPP) Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway) West Java Province, MoF etc.
I-55	2014/6/25	DKI Jakarta Public Works Agency Route Alignment and Station Location in Jakarta	Mr. Agus P. Jendro (Vice Head of DKI Jakarta Public Works Agency)
I-56	2014/6/26	3rd Coordination Meeting	Refer to Table A3-9
I-57	2014/6/30	West Java Province	Refer to Table A3-10
I-58	2014/7/7	DGR, CMEA, DKI, West Java Route Alignment and Station Location	Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway) Refer to Table A3-11
I-59	2014/7/14	DKI Jakarta, City Planning Route Alignment and Station Location in Jakarta	Mr. Jogi Harjudanto (Head of Infra. And Facilities Division)
I-60	2014/7/14	DGR Route Alignment and Station Location in Jakarta	Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway) Mr. Jumanto
I-61	2014/7/16	Embassy of Japan Demand Forecast	Mr. Saito (Counsellor, Economy and Development) Mr. Kodama (First Secretary) Mr. Muraoka (JICA)
I-62	2014/7/17	Synchronization Railway Program at Great Bandung Area	Mr. Heru (Representative Chief of West Java Transportation Agency)
I-67	2014/7/17	Bappeda DKI Jakarta Route Alignment and Station Location in Jakarta	Jakarta Capital City Government Mr. Andi Baso M (Head of Regional Development Planning Board) Mr. Feirully Irzal, B (City Infra. & Environmental Division)

Stage-I Extension

I-63	2014/9/1	DKI Jakarta Jakarta Station	Mr. Akimoto (JICA Expert)
I-64	2014/9/2	JICA Indonesia Schedule for Stage-1 Extension	Mr. Oura
I-65	2014/9/2	Oriental Consultant DDT PJ	Mr. Iitoyo (Project Manager)

		Plan of Manggarai Station	
I-66	2014/9/8	DKI Jakarta City Planning Development Plan for Manggarai and Kemayoran	Mr. Jogi Harjudanto (Head of Infra. And Facilities Division) Ms Desy Meilayanti (Head of Section for Urban Spatial)
I-67	2014/9/10	Scope & Schedule for Stage-1 & 2, Phase2 Jakarta Station Location	CMEA: Dr. Wahyu Utomo
I-68	2014/9/10		DGR Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway)
I-69	2014/9/11	Oriental Consultant DDT PJ Plan of Manggarai Station	Mr. Iitoyo (Project Manager)
I-70	2014/9/11	MPA Support Facilities Business Scheme & Ridership	JICA: Mr. Oura MPA: Mr. Ochi, Mr. Ozawa, Mr. Yamashita
I-71	2014/9/12	Embassy of Japan Scope & Schedule for Stage-1 & 2, Phase2	Ms Kijima Mr. Kodama
I-72	2014/9/15	Scope & Schedule for Stage-1 & 2, Phase2 Jakarta Station Location	CMEA: Mr. Tulus (Assistant to the Deputy for Trans. Infra.) Mr. Dwinanta Utama, M.Sc (Land Transport, Multi Modal and Railway Division Head) DGR: Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway) Mr. Prasetyo Boeditjahjono Embassy of Japan: Mr. Kodama JICA: Mr. Oura
I-73	2014/9/16	Scope & Schedule for Stage-1 & 2, Phase2 Jakarta Station Location	DGR: Mr. Prasetyo Boeditjahjono

Table A3-2 List for the Main Meeting & Conference "Stage II"

Stage II

II-1	2014/10/22	Ministry of Environment KLH	Mr. Ary
II-2	2014/10/24	JICA Indonesia	Mr. Muraoka, Mr. Oura
II-3	2014/10/30	DKI Jakarta - Deputy Governor JKT Station Location	Prof. Dr. Ir. Sutanto Soehodho, M.Eng
II-4	2014/11/5	DKI Jakarta - Deputy Governor JKT Station Location	Prof. Dr. Ir. Sutanto Soehodho, M.Eng
II-5	2014/11/6	CMEA	Mr. Akimura (JICA Expert)
II-6	2014/11/6	JICA Procedure for Stage II	Mr. Koizumi, Mr. Kuramoto
II-7	2014/11/10	CMEA Env. & Spatial Plan WG	Dr.Ir. Abdul Kamarzuki (Head of Planning Division) Ms. Afrike Wahyuni S
II-8	2014/11/11	JICA Indonesia MPA SF Business Scheme	Mr. Muraoka, Mr. Oura Mr. Ochi (PM), Mr. T. Yamashita
II-9	2014/11/14	West Java Province Env. & Spatial Plan WG	Refer to Table A3-12
II-10	2014/11/18	JICA Indonesia Business Scheme	Mr. Muraoka, Mr. Oura
II-11	2014/11/18	Bappeda Bekasi Regency Preliminary Environmental and Social Considerations & Alignment, Station and Spatial Development Plan.	Erni J. (Head of Environmental and Natural Resources Sub-Divison, Department of Physical Infrastructure)
II-12	2014/11/19	Bappeda Karawang Regency Spatial Planning & Environmental and Social Consideration WG.	Refer to Table A3-13
II-13	2014/11/20	Bapennas, Menko, DGR Business Scheme WG-1	Bappenas: Mr. Bastary, CMEA: Dr. Wahyu DGR: Mr. Hanggoro Univ. Gajah Mada: Dr. Danang, Dr. Eddy Junarsin, Mr. Yusa JICA: Mr. Muraoka, Mr. Oura
II-14	2014/11/20	Bappeda Bandung City Preliminary Environmental and Social Considerations & Alignment, Station and Spatial Development Plan.	Refer to Table A3-14

II-15	2014/11/21	Embassy of Japan Business Scheme	Mr. Kodama (First Secretary) Mr. Kawano (Financial Attache) JICA: Mr. Muraoka, Mr. Oura
II-16	2014/11/24	DKI Jakarta Station Location & Route Alignment	Deputy Governor: Prof. Dr. Ir. Sutanto Soehodho, M.Eng Refer to Table A3-15
II-17	2014/12/2	JICA Indonesia MUFJ: Business Scheme	Mr. Oura Mr. Shimonishi, Mr. Ichiji
II-18	2014/12/3	Bappeda Bandung City Gedebage Area Development	Mr. Anton Sunarwibowo (Head of Spatial Planning & Infrastructure Division) Refer to Table A3-16
II-19	2014/12/4	AECOM Coordination for Gedebage Area Development	Mr. Sjahedi Junardiono, (Mr. Ardzuna Sinaga: Leader) Mr. Mohamad Nurhadi, Ms Dialusi Panggabean
II-20	2014/12/9	Head of Technical for BPJT Right of Way Toll Road	Mr. Abram Barus Mr. Primawan Avicena
II-21	2014/12/10	CMEA Environ. and Spatial Planning WG	Dr. Ir. Abdul Kamarzuki
II-22	2014/12/10	DGR (Transportation Department) Harmonization With French Project at Bandung Section	Mr. Hanggoro (Director of Traffic & Railway)
II-23	2014/12/10	FGD Meeting Session 2 Institution for HSR Development	Mr. Eddi Santosa (PT. DEX Solusi Transit) Refer to Table A3-17
II-24	2014/12/15	Jasamarga Coordination Meeting for Feasibility Study of Jakarta-Bandung HSR Project	DGM TM: Mr. Teddy R DGM TCM: Mr. Charles L DGM MPA: M. Irsan S
II-25	2014/12/15	Bappeda Purwakarta Meeting Purwakarta Development Plan	Mr. Uu Safrullah (Bappeda Purwakarta) Refer to Table A3-18
II-26	2014/12/16	DKI Jakarta City Planning Jakarta Station Location and How to Use Banjir Kanal Timur	Mr. Jogi Harjudanto (Head of Infrastructure & Facilities Division of Depatment City Planning of DKI Jakarta)
II-27	2014/12/17	Bappeda Bekasi Regency Meeting Harmonization with Bekasi Regency Spatial Plan	Mr. E. Yusuf Taufik (Head of Physical and Infrastructure of Bappeda Bekasi Regency) Mr. Ramdhani Aris (Department Transportation of Bekasi Regional) Mr. Fuad (Bappeda Bekasi Regency Staff)

II-28	2014/12/18	Bappeda Karawang City Meeting Karawang Development Plan	Mr. Didin Rachmady (Head of Physical & Infrastructure of Bappeda Karawang) Refer to Table A3-19
II-29	2014/12/18	Ministry of Environment and Forestry Environmental and Spatial Planning WG	MoEF, Asst. Deputy for Environmental Review : Mr. Ary Sudijanto
II-30	2014/12/18	Ministry of Environment and Forestry Land Acquisition in Forest Land	MoEF, Chief of Sub Directorate for Forest Area of Region 1 under Directorate of Forest Land Utilization : Mr. Endi Sugandi
II-31	2014/12/18	Ministry of Agriculture Meeting Land Acquisition in Agricultural Land	Chief of Sub-division for Agriculture Area Control : Ms. Gloria
II-32	2014/12/19	Bappeda Cimahi City Cimahi Development Plan	Mr. Hery Antasari (Secretary of Bappeda Cimahi City) Mr. Ison Suhud (Head of Public Works Department of Cimahi City) Mr. Amy Pringgo (Deputy of Spatial & Environmental of Bappeda Cimahi City) Ifa Yasyfina (Head of Infrastructure Dividion of Bappeda Cimahi City)
II-33	2014/12/19	Bappeda Bandung Barat Spatial Plan, Environmental & Social Consideration of West Bandung Regency	Mr. Diang Suherman (Head of Physical Planning Department of West Bandung) Refer to Table A3-20
II-34	2014/12/23	Bappeda Bekasi City Bekasi Station Location and Development Area	Mr. Dadang Mulyana (Head of Physical Bureau of Bappeda Bekasi City) Refer to Table A3-21
II-35	2014/12/29	JICA Indonesia	Mr. Muraoka
II-36	2014/12/29	Bapennas, Menko, DGR Business Scheme WG-2	Bappenas: Mr. Bastary, CMEA: Dr. Wahyu DGR: Mr. Hanggoro Univ. Gajah Mada: Dr. Eddy Junarsin and Team JICA: Mr. Muraoka
II-37	2015/1/13	KEMENKO Perekonomian (CMEA) Preparation for Spatial Planning and Environmental and Social Considerations WG Meeting	Dr. Ir. Abdul Kamarzuki (Head of Planning Division)

II-38	2015/1/16	KEMENKO Perekonomian (CMEA) Preparation for Spatial Planning and Environmental and Social Considerations WG Meeting	Dr. Ir. Abdul Kamarzuki (Head of Planning Division)
II-39	2015/1/21	PUSTRAL UGM (Progress Presentation Organization, Financing, Project Structure, and Economic Analysis; HSR Authority and Strategic Management; Legal Analysis on The Establishment of New SOE for HSR Project)	PUSTRAL UGM Team Refer to Table A3-22
II-40	2015/1/21	MPA-SF (Report of progress on the business scheme examination)	Mr. Ochi
II-41	2015/1/22	PT Sarana Multi Infrastructur (Current situation of Infrastructure financing in Indonesia and possibility of participation in capital investment and regional development	Mr. Pradana Murti Mr. Suparno Ms. Vita Maheyni
II-42	2015/1/26	JICA Indonesia	Mr. Oura
II-43	2015/1/26	Bank of Tokyo Mitsubishi UFJ (Comment on the business scheme options from the view point of Japanese financial institution)	Mr. Shimonishi Ms. Nishi Mr. Chong Teck Wei Mr. Saravanan Santhanam
II-44	2015/1/26	Embassy of Japan (Report of progress on the business scheme examination)	Mr. Kodama JICA: Mr. Muraoka
II-45	2015/1/27	CMEA	Mr. Akimura (JICA Expert)
II-46	2015/1/28	Bapennas, DGR Business Scheme WG-3	Refer to Table A3-23
II-47	2015/1/30	JICA Indonesia	Mr. Oura
II-48	2015/1/30	Ministry of Forestry Deliver Soft File of HSR Track	Mr. Aan

II-49	2015/2/3	DGR (Ministry of Transportation) Planning of Bandung & Depot	Mr. Hanggoro Budi Wiryawan (Director of Traffic & Railway) Mr. Prasetyo Boeditjahjono
II-50	2015/2/6	CMEA	Mr. Akimura (JICA Expert)
II-51	2015/2/10	CMEA: Seminar on TOD & Urban Transportation	
II-52	2015/2/25	JICA Indonesia Progress Discussion	Mr. Muraoka
II-53	2015/2/27	Embassy of Japan Progress Discussion	Mr. Kodama (First Secretary)
II-54	2015/2/27	DKI Jakarta City Planning HSR Route Book	Mr. Jogi Harjudanto (Head of Infrastructure & Facilities Division of Depatment City Planning of DKI Jakarta)
II-55	2015/3/2	Embassy of Japan	Mr. Kodama (First Secretary) Mr. Oura (JICA Indonesia)
II-56	2015/3/3	Bappenas Progress Discussion & Route Book	Mr. Bambang (Director of Directorate of Transportation)
II-57	2015/3/3	DGR (Ministry of Transportation) Depot Location & Route Book	Mr. Hanggoro (Director of Traffic & Railway) Ms. Fintri Antara (Staff of Mr. Prasetyo)
II-58	2015/3/5	DKI Jakarta, Deputy Governor Route Book	Mr. Sutanto S.
II-59	2015/3/5	Karawang Regency Route Book	Mr. Dindin Rachmadhy (Head of Infrastructure and Spatial Planning Division) Ms Agustien, BINAMARGA Mr. Didi. S
II-60	2015/3/6	Bandung City Route Book	Mr. Anton (Head of Spatial Planning & Infrastructure Division)
II-61	2015/3/6	West Java Province Route Book	Mr. Achmad Suganda (Chief Section of Infrastructure) Mr. Indra
II-62	2015/3/6	Cimahi City Route Book	Ms Ifa Yasfina (Chief Section of Infrastructure)
II-63	2015/3/6	West Bandung Regency Route Book	Ms Gina Herlina (Physical Infrastructure Division)
II-64	2015/3/10	PPP Indonesia Legal System	Mr. Windhu Hidranto (President Director)
II-65	2015/3/11	Embassy of Japan Business Scheme & Impl. Structure	Ms Kijima (Minister) JICA Indonesia: Mr. Muraoka , and Mr. Oura

II-66	2015/3/11	Bekasi City Submission & Explanation of Route Book	Mr. Dadang Mulyana (Head of Physical Infrastructure of Bappeda Bekasi City)
II-67	2015/3/12	Bank of Tokyo-Mitsubishi UFJ Financing	Mr. Fujiki Mr. Saravanan
II-68	2015/3/13	DGR, CMEA, Bappenas (Ministry of Transportation) Business Scheme WG-4	Refer to Table A3-24
II-69	2015/3/13	Bekasi Regency Submission & Explanation of Route Book & Depot Location	Mr. E. Yusup Topik (Head of Physical Infrastructure of Bappeda Bekasi Regency)
II-70	2015/3/16	Embassy of Japan Business Scheme & Implementation Structure	Embassy of Japan: Mr. Kodama (First Secretary) JICA Indonesia: Mr. Oura
II-71	2015/3/17	DKI Jakarta Progress Report	Mr. Akimoto (JICA Expert)
II-72	2015/3/17	CMEA Regional Development	Mr. Akimura (JICA Expert)
II-73	2015/3/23	Ministry of Agriculture Submission & Expalanation of Route Book	Ms. Gloria Merry Karolina (Chief Subdirectorate Land Control of Directorate of Land Expansion & Management of Agriculture Ministry)
II-74	2015/3/24	Ministry of Forestry Submission & Expalanation of Route Book	Sub-Directorate for Forest Are Region 1 from Directorate of Forest Land Utilization : Mrs. Hanifah Kusumaningtyas Mr. Kurniawan Budi Santoso
II-75	2015/3/25	Bappeda DKI Jakarta Submission & Expalanation of Route Book	Mrs. Tuty Kusumawati (Head of Bappeda DKI) Mr. Afan Adriansyah Idris (Chief of Economic Affairs Div) Mr. Yudi Douglass B (Chief Sub-Div for Transportation) Mrs. Karina Miatantri (Planner on Economic Affairs Div)
II-76	2015/3/25	RAI – PT. Regio Avasi Industri Land Value Capture and Station – Front Development	Chairman: Mr. Windhu (PPP Indonesia) RAI – PT. Regio Avasi Industri: Mr. Agung Nugroho (President Director (AG)) Mr. Agung Banu Ismadi (Director of Business Adm (AB)) Mr. Budi Wibowo (Head of Procurement (BW)) Ms. Rahayu S. Arifin (Corporate Secretary (RA))

II-77	2015/3/27	Bappeda Karawang Harmonize HSR Project & Master plan Industrial Area at Karawang	Refer to Table A3-25
II-78	2015/3/31	DGR (Ministry of Transportation) HSR Phase I Study	Mr. Popik Montanasyah (Director of Railway infrastructure)
II-79	2015/4/1	Bappenas Pre-Explanation : Business Scheme	Bappenas : Mr. Deddy (Deputy Minister) , Mr. Bastary (Director of PPP Development) Embassy of Japan: Ms Kijima (Minister) Mr. Kodama (First Secretary) JICA Indonesia: Mr. Oura
II-80	2015/4/1	CMEA Pre-Explanation : Business Scheme	CMEA : Mr. Luky Eko Wuryato (Deputy Minister) Embassy of Japan: Ms Kijima, JICA Indonesia: Mr. Oura
II-81	2015/4/2	Embassy of Japan Schedule of Coordination MT	Embassy of Japan: Mr. Kodama (First Secretary) JICA Indonesia: Mr. Oura
II-82	2015/4/6	DGR Pre-Explanation : Business Scheme	DGR Mr. Hermanto Dwiatmoko (Director General) Mr. Imran Rashyid (Secretary Directorate General)
II-83	2015/4/7	JICA Indonesia Preparation of Coordination MT	JICA Indonesia: Mr. Oura
II-84	2015/4/10	4th Coordination Meeting Draft Final Report	Refer to Table A3-26.
II-85	2015/4/13	Embassy of Japan Future Plan	Embassy of Japan: Mr. Kodama (First Secretary) JICA Indonesia: Mr. Oura
II-86	2015/4/15	JICA Indonesia Meeting for Delivery of Equipment	JICA Indonesia: Mr. Oura
II-87	2015/4/16	JICA Indonesia Delivery of Equipment	JICA Indonesia: Mr. Oura

Source: JICA Study Team

Table A3-3 Kick Off Meeting Attendee List

Conference Name： The Third Japan-Indonesia Coordination Meeting for Jakarta-Bandung High-Speed Railway Project

Location： Meeting room of the Coordinating Ministry of Economic Affairs

Date： 28/Jan./2014

Time： 14:00～16:00

The Attendee List

NO.	NAME	POSISTION/INSTITUTION	
1	Luky Eko Wuryanto	CMEA	Deputy Minister for Infrastructure and Regional Development Coordination
2	Deddy	Bappenas	Deputy for Facility and Infrastructure
3	Bastary Pandji Indra	Bappenas	Director of PPP Development
4	Kennedy Simanjuntak	Bilateral Bappenas	Bilateral International Funding of Bappenas
5	Sabin	Bappenas	
6	Edib Muslim	Menko Ekuin	CMEA
7	Abdul Kamarzuki	Menko Ekuin	CMEA
8	Dwinanta Utama	Kemenko	CMEA
9	Agung Prastio	Transportasi Kemenko	Transportation CMEA
10	Ani	Kabid Perumahan, Pertanahan dan KPS, Kemenko	Head for Housing, Land and PPP. CMEA
11	Bagus Pamungkas	Perumahan, Pertanahan dan KPS, Kemenko	Housing, Land and PPP. CMEA
12	M. Noor Marzuki	BPN –RI	National Land Agency
13	Abdul Kadir	BPN –RI	National Land Agency
14	Hanggoro B. W.	Dir. LLAKA/DJKA	Director of Traffic and Transportation/DGR
15	Joyce	Dit. LLAKA/DJKA	Directorate of Traffic and Transportation/DGR
16	Heru Wisnu	Kasubdit Jaringan	Head of Sub Directorate of Network

17	Hadi S. Legowo	Setditjen KA	Secretariat General of DGR
18	Ferdian Danu	Setditjen KA	Secretariat General of DGR
19	Henda Tri	Kemen. BUMN	Ministry of State Owned Enterprise
20	Santoso S.	Kasubag Rencana Setditjen KA	Head of Sub Departement of Planning, Secretariat General of DGR
21	Hartoyo	PT KAI	Indonesia Railway Company
22	Septa T. Ramadin	ETD/PT KAI	Business Development Unit/PT KAI
23	Eri Mulyana	ELP/PT KAI	Asset Production Unit/PT KAI
24	Diaz Sikar	Tusk Advisory	
25	Tirza R.	Tusk Advisory	
26	Ananda Laksmi	Staf Asdep 5/VI Ekon	Staff for Assistant Deputy 5/VI CMEA
27	Khairunnisa	Staf Asdep 4/VI Ekon	Staff for Assistant Deputy 4/VI CMEA
28	M. Ihsani Prawira	Staf Asdep 5/VI Ekon	Staff for Assistant Deputy 5/VI CMEA
29	Gema Kalih Praba	Staf Asdep 3/VI Ekon	Staff for Assistant Deputy 3/VI CMEA
30	Wimpie Agung Aspar	PTIST BPPT	Transportation Industry Technology Center, Technology Application and Assessment Agency
31	Very Yanto	KP3EI	Committee for the Acceleration and Expansion of Indonesian Economic Development
32	Afrike W.S.	KP3EI	Committee for the Acceleration and Expansion of Indonesian Economic Development
33	Indra P.	Bappeda Jawa Barat	Bappeda of West Java Province
34	Linda Al Amin	Kabid Fisik	Head for Physical of Bappeda of West Java Province
35	Rifan A.	KLH	Environment Agency

36	Suryo Pratomo	Biro Perencanaan Kemenhub	Planning Bureau of MoT
37	Fiki	Liputan 6.com	Reporter
38	Maikel	Detik.com	Reporter
39	Engge	Kontan	Reporter
40	Gia Nugraha	BKF	Fiscal Policy Agency
41	Kenji Kamite	Embassy of Japan	First Secretary
42	Akihiro Kurihara	MLIT	
43	Kenji Nishimoto	MLIT	Assistant Director
44	Shusuke Ishijima	MLIT	Chief International Policy Division Policy Bureau
45	Yukihiro Koizumi	JICA	Director
46	Tomoya Chokki	JICA HQ	
47	Akira Matsunaga	JICA	Senior Representative
48	Hidenori Ihara	JICA Indonesia	Representative
49	Jun Saotome	JICA HQ	Deputy Director
50	Toru Fukushima	JICA Study Team	HSR Team Leader
51	Toshiaki Horii	JICA Study Team	HSR Construction General Manager
52	Takeharu Koba	JICA Study Team	HSR Traffic Demand Forecast
53	Akihiko Shimomura	JICA Study Team	HSR Business Scheme/Financing Planning
54	Hiroyuki Mizui	JICA Study Team	HSR Coordination/HSR Planning Assistance
55	Kazuhiko Otani	JICA Study Team	HSR Related Agency Coordination/Business Planning
56	Endah	JICA Study Team	HSR Project staff
57	Raisya	JICA Study Team	HSR Project staff

Table A3-4 1st Technical WG Attendee List

Conference Name： DGR Technical Meeting

Location： 11th fl. Meeting Room, DGR

Date： 24/Feb./2014

Time： 14:00～16:00

The Attendee List

NO.	NAME	POSISTION/INSTITUTION	
1	Hanggoro B. W.	DGR, MOT	Director of Railways Traffic and Transport
2	M. Risal Wasil	Dit. Kes	Directorate General of Health , Ministry of Health
3	Tambun	Dit Kes	Directorate General of Health , Ministry of Health
4	Jumanto	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
5	Kunto Wibisono	Dit.	
6	Andhika S.	Dit. Kes	Directorate General of Health , Ministry of Health
7	Prih Galih	Dit. Kes	Directorate General of Health , Ministry of Health
8	Heru W.	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
9	Eben S.	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
10	Ari Ratna A.	Dit. Sarana	Directorate General of Facilities and Infrastructure
11	Myrna S.	Dit. Sarana	Directorate General of Facilities and Infrastructure
12	Joko W.	Dit Sarana	Directorate General of Facilities and Infrastructure
13	F. Danu	SETDITJENKA	Secretariat Directorate General of Land Transportation , Ministry of Transportation
14	S. Sinaga	SETDITJENKA	Secretariat Directorate General of Land Transportation , Ministry of Transportation

15	Ernita Titis	Ro 1	
16	Fina Ulya	Ro 1	
17	M. Atma Adhyaksa	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
18	Hotman P. L.	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
19	Ali Habibi	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
20	Kazuhiko Otani	JICA Study Team	Related Agency Coordination/Business Planning
21	Tai Tanabe	JICA Study Team	HSR Architecture
22	Hiroyasu Kudo	JICA Study Team	HSR Urban and Regional Planning
23	Tsuneo Hasimoto	JICA Study Team	HSR Track Structure / Disaster Prev.
24	Hideaki Mizukawa	JICA Study Team	HSR Operation Planning
25	Shumpei Takahashi	JICA Study Team	HSR Power Supply Planning
26	Hiroshi Kawasaki	JICA Study Team	HSR Signal / Telecom Planning
27	Yuya Nakamura	JICA Study Team	HSR Rolling Stock Planning
28	Naonori Yamada	JICA Study Team	HSR Alignment Planning
29	Naoki Tanaka	JICA Study Team	HSR Civil Engineering Facilities
30	Nobuyuki IIJIMA	JICA Study Team	HSR Geology/Topography Study
31	Rachmadi	JICA Study Team	HSR Project staff (Senior Railway Engineer)
32	Akihiro Shimomura	JICA Study Team	HSR Business Scheme/Financing Planning
33	Yasuo Tateishi	JICA Study Team	HSR Train Control
34	Masaaki Hara	JICA Study Team	HSR System General Manager
35	Osamu Sato	JICA Study Team	HSR Depot Planning

Table A3-5 1st Environment WG Attendee List

Conference Name： First Meeting of Environmental and Social Considerations Working Group

Location： Mangrove Meeting Room, Ministry of Environment

Date： 03/Apr./2014

Time： 14:00～16:30

The Attendee List

NO.	NAME	POSISTION/INSTITUTION	
1	NOVIE ANDRIANI	DIT. PKPS BAPPENAS	Directorate General of Private-Government, Cooperation Development of National Development Planning Board
2	AHMAD YUDISTIRA	DIT. PKPS BAPPENAS	Directorate General of Private-Government, Cooperation Development of National Development Planning Board
3	RAISA	KP3EI	Acceleration and Expansion of Indonesia's Economic Development
4	BUDI D. R.	KP3EI	Acceleration and Expansion of Indonesia's Economic Development
5	JOICE	DIT. LLAKA DJKA	Railway Traffic and Transportation, Directorate General of Railway, Ministry of Transport
6	JUMANTO	DITJEN PERKERETAAPIAN	Directorate General of Railway, Ministry of Transport
7	MOCH. M.D. FAUZAN	DITJEN PERKERETAAPIAN	Directorate General of Railway, Ministry of Transport
8	ENDAH MAHANANI	BPN RI	National Land Agency of Republic Indonesia
9	KHAIRIMAS	BIRO PERENCANAAN KEMENTAN	Planning Bureau, Ministry of Agriculture
10	NANDA RAHMA YULI	DITJEN PERKEBUNAN KEMENTAN	Directorate General of Plantation, Ministry of Agriculture

11	ANTAKS M. PRAWIRA	DITJEN PERKEBUNAN KEMENTAN	Directorate General of Plantation, Ministry of Agriculture
12	DYAH MUTIAWATI	DITJEN TP	Directorate General of Food Plant, Ministrty of Agriculture
13	ACEP LESDIANA	DITJEN TP	Directorate General of Food Plant, Ministrty of Agriculture
14	AMOS PANJAITAN	DINAS TATA RUANG PROV. DKI	Department of Spatial Planning, Jakarta Capital City
15	MERIZA	DITJEN PENATAAN RUANG	Directorate General of Spatial Planning
16	RINA SURYANI	BPLHD PROV. DKI	Regional Environmental Agency, Jakarta Capital City
17	JARKASIH	DISHUB DKI JAKARTA	Department of Transport, Jakarta Capital City
18	IWAN SOPYAN	DISHUB PROV JABAR	Department of Transport, West Jawa Province
19	BUDIMAN	DISHUB PROV JABAR	Department of Transport, West Jawa Province
20	TORU FUKUSHIMA	JICA Study Team	HSR Team Leader
21	TOSHIAKI HORII	JICA Study Team	HSR Construction General Manager
22	MASAAKI HARA	JICA Study Team	HSR System General Manager
23	KEI OWADA	JICA Study Team	Economic and Financial Analysis
24	HAYATO KOBAYASHI	JICA Study Team	Envionmental and Social Considertations (Social Environment)
25	SAITO TETSUYA	JICA Study Team	Envionmental and Social Considertations (Natural Environment)
26	ENDAH	JICA Study Team	Project staff

Table A3-6 2nd Technical WG Attendee List

Conference Name： DGR Technical Meeting

Location： ORIA Hotel 1st Fl. Meeting Room

Date： 10/Apr./2014

Time： 13:30～16:30

The Attendee List

NO.	NAME	POSISTION/INSTITUTION	
1	Hanggoro B. W.	DGR, MOT	Director of Railways Traffic and Transport
2	Sri Lestari	Peneliti Madya / Puslitbang Darat Kereta Api	Senior Researcher , Research Center for Development of Railway Land, Directorate General of Railways
3	Sabungan H. Hutapea	Peneliti Madya / Puslitbang Darat Kereta Api	Senior Researcher , Research Center for Development of Railway Land, Directorate General of Railways
4	Christianto	DISHUB DKI	Departement of Transportation of Jakarta Capital City, Ministry of Transportation
5	M.Abdul Hamzah	DISHUB JAWA BARAT	Departement of Transportation of West Java Province, Ministry of Transportation
6	Iwan S.	DISHUB JAWA BARAT	Departement of Transportation of West Java Province, Ministry of Transportation
7	Budiman	DISHUB JAWA BARAT	Departement of Transportation of West Java Province, Ministry of Transportation
8	Joice	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
9	ST. Widianto	Dit. Sarana Kereta Api	Directorate General of Facilities and Infrastructure

10	Jumanto	Dit. Sarana Kereta Api	Directorate General of Facilities and Infrastructure
11	Defri W.	Directorate General of Railways	Directorate General of Railways , Ministry of Transportation
12	D. Fauzan	Dit. LLAKA	Directorate General of Traffic & Transportation Railway , Ministry of Transportation
13	Santoso Sinaga	Set. Ditjen Kereta Api	Secretariat Directorate General of Land Transportation , Ministry of Transportation
14	F. Danu	Sekertariat Direktorat Jendral Kereta Api	Secretariat Directorate General of Land Transportation , Ministry of Transportation
15	Karina Miantantri	BAPPEDA DKI JAKARTA	Agency for Regional Development of Jakarta Capital City
16	Citra Widyaningrum	BAPPEDA DKI JAKARTA	Agency for Regional Development of Jakarta Capital City
17	Fadawi	Ditjen Kereta Api	Directorate General of Train Facilities, Directorate General of Railways
18	Yofi O.	Dit. Prasarana Direktorat Jendral Kereta Api	Directorate of Railway Infrastructure , Directorate General of Railways
19	Winfrie Ajeng	BPPT	Agency for Assessment and Application of Technology, State Minister for Research and Technology
20	Ruthlin Novasindy	Biro Kemenhub	Ministry of Transportation Bureau, Ministry of Transportation
21	Toru Fukushima	JICA Study Team	HSR Team Leader
22	Toshiaki Horii	JICA Study Team	HSR Construction General Manager
23	Masaaki Hara	JICA Study Team	HSR System General Manager
24	Hideaki Mizukawa	JICA Study Team	HSR Operation Planning

25	Akihiro Shimomura	JICA Study Team	HSR Business Scheme/Financing Planning
26	Hiroyuki Mizui	JICA Study Team	HSR Coordination/HSR Planning Assistance
27	Rachmadi MSc	JICA Study Team	HSR Project staff (Senior Railway Engineer)
28	Iis Muryadi	JICA Study Team	HSR Project staff
29	Bambang YP	JICA Study Team	HSR Project staff
30	Yunan Pratnajaya	JICA Study Team	HSR Project staff
31	Raisya Dwiartvi Widjaya	JICA Study Team	HSR Project staff
32	Endah	JICA Study Team	HSR Project staff

Table A3-7 Route Alignment Meeting Attendee List

Conference Name： Route and Alignment Meeting with Bappeda West Java

Location： Meeting Room of Bappeda West Jawa

Date： 19/Apr./2014

Time： 10:00～12:00

The Attendee List

NO.	NAME	POSISTION/INSTITUTION	
1	Deny Juanda	Kepala Bappeda Jawa Barat	Head of Agency for Regional Development of West Java Province
2	Agustien N	BAPPEDA Kabupaten Karawang	Agency for Regional Development of Karawang Regency
3	Rudi Rinaldi		
4	Wahyudin	BAPPEDA Kabupaten Bandung	Agency for Regional Development of Bandung Regency
5	Rustati		
6	Deni	BAPPEDA Kabupaten Bandung	Agency for Regional Development of Bandung Regency
7	Budi	DISHUT JABAR	Departement Forestry of West Java Province , Ministry of Forestry
8	Deddy E	BLHD JABAR	Environmental agency of West Java Province, State Minister for The Environment
9	iim Halim	Bimarta Kota Bekasi	Highways Building and Water Management of Bekasi City , Ministry of Public Work
10	Nesan Sujana	Bimarta Kota Bekasi	Highways Building and Water Management of Bekasi City , Ministry of Public Work
11	E.M Ricky G	Dishub Kota Bandung	Departement of Transportation of Bandung City, Ministry of Transportation
12	Anwar	BAPPEDA Kota Bandung	Agency for Regional Development of Bandung City
13	Deisi . T	BAPPEDA Jabar (Sosbud)	Agency for Regional Development of West Java Province (Social and cultural)
14	Jefry Benardi	DISHUB JABAR	Departement of Transportation of West Java Province, Ministry of Public Work

15	Haris B.R	DISHUB JABAR	Departement of Transportation of West Java Province, Ministry of Public Work
16	Abdul	BAPPEDA Kota Bekasi	Agency for Regional Development of Bekasi City
17	Yayat Hidayat	DBMP Kota Bandung	HighwaysBuilding and Irrigation of Bandung City, Ministry of Public Work
18	Ifa Yasyfina	BAPPEDA Kota Cimahi	Agency for Regional Development of Cimahi City
19	Dieny P	BAPPEDA Kota Bandung	Agency for Regional Development of Bandung City
20	Tri H	BAPPEDA Purwakarta	Agency for Regional Development of Purwakarta Regency
21	Heki Cahiadi	BAPPEDA Purwakarta	Agency for Regional Development of Purwakarta Regency
22	Cecep M		
23	Imam Solihin	BAPPEDA JABAR	Agency for Regional Development of West Java Province
24	L.M Arummawati	DBMSDAP Kabupaten Bandung Barat	Highways Building , Water Resources and Mining of West Bandung Regency, Ministry of Public Work
25	Agung Wahyudi	DCKTR Purwakarta	Department of Human Settlements and Spatial Planning of Purwakarta Distric
26	Parbowo	DISHUB Cimahi	Departement of Transportation of Cimahi City, Ministry of Transportation
27	Yayat Hidayat	DBMP Kota Bandung	Highways Building and Irrigation of Bandung City, Ministry of Public Work
28	Casma A	BKPP 1	Staffing Agency Education and Training 1
29	Erwin Rinaldi	Dispertsih Kabupaten Bandung	Agency housing Spatial Planning and hygiene of Bandung Regency
30	Ade Yayat	PCKNR - KBB	
31	Dian Suherman	BAPPEDA - KBB	Agency for Regional Development of West Bandung Regency
32	Setya Darala	Kadisitus , Karawang	
33	Muhammad NWK	Bina Marga JABAR	Highways Building of West Java Province,

			Ministry of Public Work
34	Dindin Rachmady	BAPPEDA Karawang	Agency for Regional Development of Karawang Regency
35	H. Achmad	BAPPEDA JABAR	Agency for Regional Development of West Java Province
36	Johnny Patta	WIP - MDM	
37	Rury Roryan	Distarlip Kota Bandung	Department of Spatial Planning and Human Settlements of Bandung City
38	Dadang Komara	Distarlip Kota Bandung	Department of Spatial Planning and Human Settlements of Bandung City
39	Dadang Sukarna	Distarlip Kota Bandung	Department of Spatial Planning and Human Settlements of Bandung City
40	Ade Direja	Distarlip Kota Bandung	Department of Spatial Planning and Human Settlements of Bandung City
41	Toru Fukushima	JICA Study Team	HSR Team Leader
42	Toshiaki Horii	JICA Study Team	HSR Construction General Manager
43	Hiroyuki Mizui	JICA Study Team	HSR Coordination/HSR Planning Assistance
44	Rachmadi	JICA Study Team	HSR Project staff (Senior Railway Engineer)

Table A3-8 Progress Meeting Attendee List

Conference Name： 2nd Joint Coordination Committee (Progress Report: Alignment & HSR System)

Location： Sumba-C Meeting Room, Hotel Borobudure

Date： 24/Apr./2014

Time： 10:00～12:00

NO.	NAME	POSISTION/INSTITUTION	
1	Luky Eko Wuryanto	CMEA	Deputy Minister for Infrastructure and Regional Development Coordination
2	Deddy	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
3	Wahyu Utomo	CMEA	Head of Program Intergration Division
4	Bastary Pandji Indra	BAPPENAS	Director of PPP Development
5	Yoshiko KIJIMA	Embassy of Japan	Minister
6	Kenji KAMITE	Embassy of Japan	First Secretary
7	Yukihiro Koizumi	JICA	Director
8	Tomoya Chokki	JICA	
9	Kotaro KURAMOTO	JICA	
10	Hiromichi Muraoke	JICA	Senior Representative
11	Hidenori Ihara	JICA	Representative
12	R.Akimoto	JICA Expert	
13	Linda Al A	West Java BAPPEDA	Agency for Regional Development of West Java province
14	Bambang P	K-BUMN	State Minister for State Owned Enterprises
15	Rampi Melati	Staf Asdep 3 / VI Menko Ekon	Staff Assisten Deputy Ministry of Coordination Economic
16	Dewina Nurdirini	Staf Asdep 3 / VI Menko Ekon	Staff Assistant Deputy Ministry of Coordination Economic (CMEA)
17	Shuhaela	TUSK Advisory	
18	Jumanto	Ditjen LLAKA DJKA	Directorate General of Traffic &

			Transportation Railway , Ministry of Transportation
19	Eva Anwar	KEMENHUB	Ministry of Transportation
20	Indra P	West Java BAPPEDA	Agency for Regional Development of West Java Province
21	Wahyu Wibowo	K-BUMN	State Minister for State Owned Enterprises
22	Vera Revina Sari	BIRO TRLH DKI JAKARTA	DKI Jakarta Bureau of environmental spatial
23	Deti Kusmalawati	Dit. PLN Bilateral BAPPENAS	Directorate of Bilateral Foreign Funding BAPPENAS
24	Novie Andriani	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
25	Tulus	BAPPENAS DKI	State Minister for Chairperson of the National Development Planning Agency
26	Yogie Nugraha	Biro Perencanaan Kemenhub	Planning Berau of Ministry of Transportation
27	Zaldy	DJPR PU	Directorate General of Spatial Planning of Public Work
28	Sugiadi Waluyo	Ditjen KA	Directorate General of Land Transportation , Ministry of Transportation
29	Santoso S		
30	F. Danu		
31	Syahnadiaz Sikar	TUSK Advisory	
32	Tulus Susilo	BPN	The National Land Agency
33	Raisa A	KP3EI	Committee on Economic Development Acceleration and Expansion of Indonesia, Coordinating Minister for the Economy
34	Anggie D Lestari	Yachiyo Engineering	
35	Indri E	KP3EI	Committee on Economic Development Acceleration and Expansion of

			Indonesia, Coordinating Minister for the Economy
36	Wiwit W	Staff Bilateral BAPPENAS	Staff of of Bilateral Foreign Funding BAPPENAS
37	Ahmad Yudistira	Staff PKPS BAPPENAS	Staff of Directorate of Public Private Partnership BAPPENAS
38	Rudi D	Staff Ditpro KA	
39	Liza soraya	DJPR	Directorate General of Spatial Planning
40	Adrianus	BKF	Fiscal Policy Office
41	Citra P U	Staff DJPR PU	Staff of Directorate General of Spatial Planning, Ministry of Public Work
42	Novita M	DISHUB DKI	Departement of Transportation of Jakarta Capital City, Ministry of Transportation
43	Anton Winarto	Tarwilnas	National Spatial
44	Djoko Prijo Utomo	BPPT	Agency for the Assessment and Application of Technology
45	Yurianto	BAPPEDA	Agency for Regional Development
46	Taufik Hidayat	Ditjen KA	Directorate General of Land Transportation , Ministry of Transportation
47	Lubis Eko W	Kemenhub Ekon	Ministry of Transportation and Coordination Economic
48	Basuki	PU	Ministry Of Public Works
49	Riko Amir	BKF Kemenku	Fiscal Policy Office, Ministry of Finance
50	Gia N	BKF Kemenku	Fiscal Policy Office, Ministry of Finance
51	Ika Ruspita	DJPR-PU	Directorate General of Spatial Planning , Ministry of Public Work
52	Laksmi Widya	Kementrian Lingkungan Hidup	State Minister for The Environment
53	klaudia OS	Pekerjaan Umum	Ministry of Public Works
54	Hj. Ajeng	Admrek JABAR	Economic Secretariat Administration –

			West Java Province
55	Toru Fukushima	JICA Study Team	HSR Team Leader
56	Toshiaki Horii	JICA Study Team	HSR Construction General Manager
57	Masaaki Hara	JICA Study Team	HSR System General Manager
58	Kazuhiko Otani	JICA Study Team	HSR Related Agency Coordination/Business Planning
59	Akihiro Shimomura	JICA Study Team	HSR Business Scheme/Financing Planning
60	Hiroyuki Mizui	JICA Study Team	HSR Coordination/HSR Planning Assistance
61	Rachmadi MSc	JICA Study Team	HSR Project staff (Senior Railway Engineer)
62	Iis Muryadi	JICA Study Team	HSR Project staff
63	Bambang YP	JICA Study Team	HSR Project staff
64	Yunan Pratnajaya	JICA Study Team	HSR Project staff
65	Raisya Dwiartvi Widjaya	JICA Study Team	HSR Project staff
66	Endah	JICA Study Team	HSR Project staff

Table A3-9 Progress Meeting (IT/R) Attendee List

Conference Name： 3rd Coordination Meeting (Interim Report)

Location： Sumba, Hotel Borobudur

Date： 26/Jun/2014

Time： 10:00～12:00

NO.	NAME	POSISTION/INSTITUTION	
1	Hanggoro B. W.	DGR, MOT	Director of Railways Traffic and Transport
2	Luky Eko Wuryanto	CMEA	Deputy Minister for Infrastructure and Regional Development Coordination
3	Ir. Bambang Prihartono	BAPPENAS	Director, Directorate of Transportation
4	Defri W.	DGR	Directorat General of Railways , Ministry of Transportation
5	Ika Puspita	DJPR-PU	Directorate General of Spatial Planning, Ministry of Public Work
6	Budi D. Rarasati	KP3EI	Committee on Economic Development Acceleration and Expansion of Indonesia, Coordinating Minister for the Economy
7	Raisa Annastine	KP3EI	Committee on Economic Development Acceleration and Expansion of Indonesia, Coordinating Minister for the Economy
8	Maria Emy	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
9	Hanan Estrida	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
10	Gema Kalih Praba	Staff Assisten Transportasi Kemenko Ekon	Staff Assistant Transportation of Ministry of Coordination Economic
11	Novie A.	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
12	Ahmad Yudishtira	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency

13	Rachmat Mardiana	PKPC - BAPPENAS	PKPC - State Minister for Chairperson of the National Development Planning Agency
14	Zuryati S.	K-BUMN	State Minister for State Owned Enterprises
15	Desty Arlaini	K-BUMN	State Minister for State Owned Enterprises
16	Bambang Drajat	DITJENKA	Directorate General of Land Transportation , Ministry of Transportation
17	Abdul Kadir	BPN	The National Land Agency
18	Kurniawan Ariadi	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
19	Gia Nugraha	PPPL	
20	Rachmadyanto E. T.	Ke. Prasarana KA	Directorate General of Train Facilities, Directorate General of Railways
21	Anton Winarto P.	Tarwilnas Ministry of PU	National Spatial Ministry of Public work
22	Voni Mahendri	SETDITJENKA	Secretariat Directorate General of Land Transportation , Ministry of Transportation
23	F. Danu	SETDITJENKA	Secretariat Directorate General of Land Transportation , Ministry of Transportation
24	Basuki	PU	Ministry Of Public Works
25	Happy Tiara A.	Staff Asdep TON and PDT Menko Ekon	Staff Assistant Deputy TON and PDT oordinating Ministry of Economic Affairs
26	Suripto	BPPT	Agency for the Assessment and Application of Technology
27	Amalia	MPA	Metropolitan Priority Area
28	Widianto	DITJENKA	Directorate General of Land Transportation , Ministry of Transportation
29	Syahnadiaz Sikar	Tusk Advisory	

30	Wishnubroto A.	Kemenko Ekon	The Coordinating Ministry of Economic Affairs
31	Indri Ermita	Kemenko Ekon	The Coordinating Ministry of Economic Affairs
32	Tirzar	Tusk	
33	Merri	Tusk	
34	Haryo K.	DITJENKA	Directorate General of Land Transportation , Ministry of Transportation
35	Shuhaela	Tusk Advisory	
36	Raj Kanna	Tusk	
37	Wahyu Utomo	CMEA	Head of Program Intergration Division
38	Achamd S.	BAPEDDA JABAR	Agency for Regional Development of West Java Province
39	Danto	DITJENKA	Directorate General of Land Transportation , Ministry of Transportation
40	Rinellu	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
41	Riani	BAPPENAS	State Minister for Chairperson of the National Development Planning Agency
42	Laksmi W.	Ministry of Environment	
43	Taya	Tusk	
44	Haris	DISHUB JABAR	Department of Transportation of West Java Province, Ministry of Transportation
45	Yurianto	BAPPEDA	Agency for Regional Development
46	Giffani	BAPPEDA	Agency for Regional Development
47	Kijima Yoshiko	Embassy of Japan	Minister
48	Koizumi Yukihiro	JICA HQ	Director
49	Tomoya chokki	JICA HQ	

50	Hiromichi Muraoke	JICA	Senior Representative
51	Hidenori Ihara	JICA	Representative
52	Tsuyushi Hara	JICA HQ	
53	Ryoichi Akimoto	JICA Expert	
54	Akihiro Kurihara	MLIT	
55	Kazuhisa Kodama	Embassy of Japan	
56	Kotaro Kuramoto	JICA HQ	
57	Iwao Ikeya	Embassy of Japan	
58	Takuo Miyazaki	METI	
59	Saito	Embassy of Japan	
60	Kanako Kono	Goverment of Japan /GOJ	
61	Hiroshi Ohsawa	METI (Goverment of Japan /GOJ)	
62	Toru Fukushima	JICA Study Team	HSR Team Leader
63	Toshiaki Horii	JICA Study Team	HSR Construction General Manager
64	Masaaki Hara	JICA Study Team	HSR System General Manager
65	Kazuhiko Otani	JICA Study Team	HSR Related Agency Coordination/Business Planning
66	Akihiro Shimomura	JICA Study Team	HSR Business Scheme/Financing Planning
67	Hiroyuki Mizui	JICA Study Team	HSR Coordination/HSR Planning Assistance
68	Rachmadi MSc	JICA Study Team	HSR Project staff (Senior Railway Engineer)
69	Iis Muryadi	JICA Study Team	HSR Project staff
70	Bambang YP	JICA Study Team	HSR Project staff
71	Yunan Pratnajaya	JICA Study Team	HSR Project staff
72	Raisya Dwiartvi Widjaya	JICA Study Team	HSR Project staff
73	Endah	JICA Study Team	HSR Project staff

Table A3-10 Attendee List

Conference Name： Route Alignment & Station Location

Location： Bappeda of West Java Province

Date： 30/JUN/2014

Time： 11:00 – 13:00

NO.	NAME	POSISTION/INSTITUTION	
1	Deny Juanda P.	Kepala Bappeda Jawa Barat	Head of Regional Development Agency of West Java Province
2	H. Achmad	Bappeda Jawa Barat	Regional Development Agency of West Java Province
3	Linda Al Amin	Bappeda Jawa Barat	Regional Development Agency of West Java Province
4	Indra P.	Bappeda Jawa Barat	Regional Development Agency of West Java Province
5	Jefry B.	DISHUB Jawa Barat	Transportation Agency of West Java Province
6	Haris B.R.	DISHUB Jawa Barat	Transportation Agency of West Java Province
7	D. K. Adi Yuda	Dinas Bina Marga Jawa Barat	Road Management Agency of West Java Province
8	Gunawan	Dinas Bina Marga Jawa Barat	Road Management Agency of West Java Province
9	Bobby S.	Diskrimum Jawa Barat	Housing Agency of West Java Province
10	Taufan G.	Diskrimum Jawa Barat	Housing Agency of West Java Province
11	Handiman	DISHUB Cimahi	Transportation Agency of Cimahi City
12	Karsa	Bappeda Cimahi	Regional Development Agency of Cimahi City
13	E.M. Ricky G.	Kepala Dishub Kota Bandung	Head of Transportation Agency of Bandung City

14	Santi P.	Dishub Kota Bandung	Transportation Agency of Bandung City
15	Andriya M. P.	Bappeda Kota Bandung	Regional Development Agency of Bandung City
16	Nunun Yanuati	Bappeda Kota Bandung	Regional Development Agency of Bandung City
17	Defri W.	Dirjen KA	DGR
18	Rin Nuraeni	Dit. LLAKA	Directorate of Traffic and Transportation
19	Nurfalah	DISHUB Purwakarta	Transportation Agency of Purwakarta
20	Hj. Ajeng M.S.	Adrek I Perhubungan	Transportation Economy Administration I
21	Prima	BPLHD Jawa Barat	Environmental Management Agency of Jawa Barat Province
22	Ari S.	BPLHD Jawa Barat	Environmental Management Agency of Jawa Barat Province
23	Dadang M.	Bappeda Kota Bekasi	Regional Development Agency of Bekasi City
24	Erwin G.	Dinas Tata Ruang Kota Bekasi	Spatial Planning Agency of Bekasi City
25	Setyadarma	Dishub Karawang	Transportation Agency of Karawang Regency
26	Toru Fukushima	JICA Study Team	HSR Team Leader
27	Toshiaki Horii	JICA Study Team	HSR Construction General Manager
28	Rachmadi MSc	JICA Study Team	HSR Project staff (Senior Railway Engineer)
29	Bambang YP	JICA Study Team	HSR Project staff

Table A3-11 Attendee List

Conference Name： Route Alignment & Station Location

Location： MOT DGR 11F Meeting Room

Date： 07/JUL/2014

Time： 12:30 – 14:00

NO.	NAME	POSISTION/INSTITUTION	
1	Hanggoro BW	DGR, MOT	Director of Railways Traffic and Transport
2	Heru Wisnu	Dit. LLAKA	Directorate of Traffic and Train Transportation
3	Jumanto	Dit. LLAKA	Directorate of Traffic and Train Transportation
4	Rin Nuraeni T.	Dit. LLAKA	Directorate of Traffic and Train Transportation
5	Ruli Setiawan	Dit. LLAKA	Directorate of Traffic and Train Transportation
6	Bernadette E.S.M.	Dit. Kes.	Direcotare of Safety
7	Reny S.	Dit. Kes.	Direcotare of Safety
8	Renaldi Prabudiman	Dit. Prasarana	Directorate of Infrastructure
9	Widianto	Dit. Sarana	Directorate of Rolling Stock
10	Vonny Mahendri	SETDITJEN KA	Secretariat of DGR
11	Eko Purnomo	SETDITJEN KA	Secretariat of DGR
12	Linda Al Amin	Bappeda Jawa Barat	Regional Development Agency of West Java Province
13	Indra Permana	Bappeda Jawa Barat	Regional Development Agency of West Java Province
14	Wishnubroto A.	Kemenko Ekuin	CMEA
15	Gema Kolih purba	Kemenko Ekuin	CMEA
16	Dwinanta Utama	Kemenko Ekuin	CMEA
17	Prasetyo	N/A	
18	Jogi H.	Dinas Tata Ruang DKI	Spatial Planning Agency of DKI Jakarta Province

19	Nursyam Daoed	Bappeda DKI	Regional Development Agency of DKI Jakarta Prov.
20	Cipta Aditya	Bappeda DKI	Regional Development Agency of DKI Jakarta Prov.
21	Jarkasih	DISHUB DKI Jakarta	Transportation Agency of DKI Jakarta Province
22	Heru Rustanto	DISHUB Jawa Barat	Transportation Agency of West Java Province
23	Mariana Diah P.	DISHUB Jawa Barat	Transportation Agency of West Java Province
24	Ruthlin Novasindy	Ro Ren	Planning Bureau
25	Hiroyuki Mizui	JICA Study Team	HSR Coordination/HSR Planning Assistance
26	Iis Muryadi	JICA Study Team	HSR Project Staff
27	Rachmadi	JICA Study Team	HSR Project Staff (Senior Railway Engineer)
28	Endah	JICA Study Team	HSR Project Staff

Table A3-12 Attendee List

Conference Name： Spatial Planning and Environmental and Social Considerations Working Group With West Java Province

Location： Bappeda Jabar Meeting room

Date： 14/Nov./2014

Time： 19:20 – 21:00

NO.	NAME	POSISTION/INSTITUTION	
1	Deny Juanda	BappedaWest Java	Head of Regional Development Agency of West Java Province
2	Linda al amin	Bappeda West Java	Head for Physical of Bappeda of West Java Province
3	Diaz Sikar	Coordinating Ministry of Economy (Mr. Kamarzuki's staff)	Tusk advisory
4	Afrike W. S.	Coordinating Ministry of Economy (Mr. Kamarzuki's staff)	Committee for the Acceleration and Expansion of Indonesian Economic Development
5	Yoyo H.	Forestry Department of West Java	
6	Galuh rissa	Bappeda Bandung City	
7	Andriya	Bappeda Bandung City	
8	Suli yanti	Bappeda West Java	Bureau of Economy
9	Dede S	Transportation Division of Karawang	
10	Puguh	Bappeda Karawang	
11	Dindin Rachmadhy	Bappeda karawang	
12	E. Yusup Taufik	Bappeda Bekasi Regency	

13	Suharmaji	Transportation Division of Bandung City	
14	T. Fukushima	JICA Study Team	HSR Project Leader
15	Naoki Tanaka	JICA Study Team	HSR Project Staff
16	H. Kudo	JICA Study Team	HSR Project Staff
17	H. Kobayashi	JICA Study Team	HSR Project Staff
18	H.Mizui	JICA Study Team	HSR Project Staff
19	Iis Muryadi	JICA Study Team	HSR Project Staff
20	Rachmadi	JICA Study Team	HSR Project Staff
21	Rimun Wibowo	JICA Study Team (equator consult)	HSR Project Staff

Table A3-13 Attendee List

Conference Name： Jakarta-Bandung HSR Project Stage-II/Phase 1 Spatial Planning and Environmental and Social Consideration Working Group with Bappeda Karawang Regency

Location： Bappeda Kabupaten Karawang Meeting Room

Date： 19/NOV/2014

Time： 10.00 – 12:30

NO.	NAME	POSISTION/INSTITUTION	
1	H. Kudo	JICA Study Team	HSR Project Staff
2	H. Kobayashi	JICA Study Team	HSR Project Staff
3	Iis M	JICA Study Team	HSR Project Staff
4	Alimin Jahja	JICA Study Team – Equator	HSR Project Staff
5	Alex Mahdi	JICA Study Team – Equator	HSR Project Staff
6	Fajar Adityarama	JICA Study Team – Equator	HSR Project Staff
7	Hanafi	Bappeda Karawang	Disperindagtamben (Department of Koperasi, Trade, Industry, Mining, and Energy)
8	Bima Kanindra	PJT II (Water Company)	
9	Rusman K	Bina Marga Karawang	
10	Wawan Setiawan	BPLH (Environmental Management Division) Karawang	
11	Agustien	Bappeda Karawang	
12	Agus Effendy	National Land Division (BPN) of Karawang	

Table A3-14 Attendee List

Conference Name： Feasibility Study HSR Jakarta-Bandung Project

Location： Bappeda Bandung City Large Meeting Room

Date： 20/NOV/2014

Time： 13:30 – 15:30

NO.	NAME	POSISTION/INSTITUTION	
1	Nikotiyanto	PT KAI	Deputy of DAOP 2 Bandung
2	Sandi Suhendar	Bina Marga Bandung City	Staff Technical of Bina Marga
3	Fery Susanty	Terraluman	RTBL Gedebage Consultant
4	Mardi Sutjipto	PT KAI	Staff in ELD (Working Development Unit) PT KAI Central Office
5	Yudhi Hartanto	PT KAI	Staff in ELD (Working Development Unit) PT KAI Central Office
6	Heru Poerbo	ITB	RTBL Gedebage Consultant
7	Jonathan Todo	ITB	RTBL Gedebage Consultant
8	Sjahedi J	AECOM Indonesia	Railway Transport Specialist
9	Anisa Nuriza	ITB	RTBL Gedebage Consultant
10	Aryani Murcahyani	Terraluman	RTBL Gedebage Consultant
11	Inci Dermaga	Bappeda Bandung City	Chief of Spatial Planing Sub-Division
12	Immanuel Ginting	PT MPP	Gedebage Developer, Summarecon Group
13	M. W. Asary	PT MPP	Gedebage Developer, Summarecon Group
14	Anton Sunarwibowo	Bappeda Bandung City	Head of Spatial Planning and Infrastructure Division
15	H. Kudo	JICA Study Team	HSR Project Staff
16	Rachmadi	JICA Study Team	HSR Project Staff
17	Hedia	JICA Study Team	HSR Project Staff

18	Fajar	JICA Study Team -Equator	HSR Project Staff
19	Alimin Jahja	JICA Study Team -Equator	HSR Project Staff
20	M. Nuradi	JICA Study Team -Equator	HSR Project Staff

Table A3-15 Attendee List

Conference Name： Evaluation of the Candidate HSR Jakarta Station

Location： DKI Jakarta, 5 Floor, Conference Room

Date： 24/Nov./2014

Time： 13:10 – 14:40

NO.	NAME	POSISTION/INSTITUTION	
1	Prof. Dr. Ir. Sutanto Soehodho, M.Eng	DKI Jakarta	Deputy Governor for Spatial and Environmental
2	Amril Aman	DKI Jakarta	Regional Council Research
3	Tarjuki	DKI Jakarta	Assistant of Deputy Governor for Spatial.
4	A. Reswan	DKI Jakarta	Assistant of Deputy Governor for Environmental
5	Khafifah Any	DKI Jakarta	Assistant of Deputy Governor for Industry & Trade
6	Rertno T.A	DKI Jakarta	Consultant from University of Pembangunan Jaya
7	Taufik A.	DKI Jakarta	Consultant from University of Pembangunan Jaya
8	Iskandar	PT. JTD	Management of 6 segment Jakarta city toll road.
9	Ir. Moh. Insaf	Jakarta Barat	City infrastructure division of West Jakarta
10	Dedi Gondewa T.	Jakarta Utara	Spatial Planning and Environmental Division of North Jakarta
11	Imam S. Wahyudi	Jakarta Selatan	City Infrastructure Division of South Jakarta
12	Christianto	DKI Jakarta	Department of Transportation
13	Zubaidi	DKI Jakarta	Department of Public Works
14	Deftrianov	DKI Jakarta	Bappeda DKI for environmental
15	Agi Isayagi	DKI Jakarta	Bureau of Economy for Regional Secretary

16	Benni Agus Candra	DKI Jakarta	Bureau of Spatial Planning and Environmental for Regional Secretary
17	Maderun	DKI Jakarta	Investment and Region Promotion
18	Ngurah Wirawan	PT. Jakarta Propertindo (Region-owned Enterprises)	Director for Public Transport and Airport
19	Sigit	Jakarta Pusat	Central Jakarta Government
20	Rosy	DKI Jakarta	Bureau of City Facilities and Infrastructure for Regional Secretary
21	Jogi Harjudanto	DKI Jakarta	Head of Department City Planning
22	Rachmadi	JICA Study Team	HSR Project Staff
23	Iis Muryadi	JICA Study Team	HSR Project Staff
24	H. Mizui	JICA Study Team	HSR Project Staff

Table A3-16 Attendee List

Conference Name： Gedebage Area Development

Location： Bandung, Spatial Planning and Infrastructure Division Meeting Room

Date： 3/Dec/2014

Time： 10:00 – 12:00

NO.	NAME	POSISTION/INSTITUTION	
1	Hiroyuki Mizui	JICA Study Team	HSR Project Staff
2	Iis Muryadi	JICA Study Team	HSR Project Staff
3	Rachmadi	JICA Study Team	HSR Project Staff
4	Naoki Tanaka	JICA Study Team	HSR Project Staff
5	Masaaki Hara	JICA Study Team	HSR Project Staff
6	Yogie Punimaz	PSUD (Urban Design Study Center)	Consultant
7	Jonathan Todo	PSUD (Urban Design Study Center)	Consultant
8	Sjahedi	AECOM Indonesia	Railway Transport Specialist
9	Santi Prianti	Transportation Division of Bandung City	

Table A3-17 Attendee List

Conference Name： FGD Meeting Session 2 - Institution for HSR Development

Location： JS Luwansa Hotel, Jl. HR. Rasuna Said Kav. C-22

Date： 10/Dec/2014

Time： 14:00 – 17:00

NO.	NAME	POSISTION/INSTITUTION	
1	Ms. Roro Astuti	Hermawan Juniarto Associate	
2	Mr. Eddi Santosa	PT. DEX Solusi Transit	
3	Mr. Arif Wismadi	PUSTRAL (Transportation and Logistics Center Study) UGM	
4	Mr. Adi Nugroho	PT. Adhi Karya	
5	Mr. Sabungan H. Hutapea	Research and Development Center for Land and Railway, MoT	
6	Mr. Arif Anwar	Research and Development Center for Land and Railway, MoT	
7	Ms. Hedia Ayuningrum	JICA Study Team	
8	Ms. Reni A.	PUSTRAL (Transportation and Logistics Center Study) UGM	
9	Mr. Kuncahyo	BPJT	

Table A3-18 Attendee List

Conference Name： Sharing Information Regarding HSR Development and Purwakarta Development

Location： BAPPEDA Purwakarta Regency

Date： 15/Dec/2014

Time： 13:00 – 16:00

NO.	NAME	POSISTION/INSTITUTION	
1	Uu Safrullah	Bappeda Purwakarta	
2	Karliadi	Bappeda Purwakarta	
3	Kusnandar	Bappeda Purwakarta	
4	Ook Komarudin	Bappeda Purwakarta	
5	Pramuji Nugroho	Bina Marga Agency (Road Management Local Agency of Purwakarta Regency)	
6	Hasan	Bappeda Purwakarta	
7	Elis Mulia Sundawati	Bappeda Purwakarta	
8	Yayan Heryana	Bappeda Purwakarta	
9	Andi Agung N	Spatial Plan Local Agency of Purwakarta Regency	
10	Nurfalah	Transportation Local Agency of Purwakarta Regency	

11	H. Kudo	JICA Study Team	
12	Bambang Yugo	JICA Study Team	

Table A3-19 Attendee List

Conference Name： Sharing Information Regarding HSR Development and Karawang Development

Location： BAPPEDA Karawang Regency

Date： 18/Dec/2014

Time： 10:00 – 12:30

NO.	NAME	POSISTION/INSTITUTION	
1	Dindin Rachmadi	Bappeda Karawang	Head of Physical Infrastructure
2	Setya Darma	Karawang Transportation Agency	Head of Karawang Transportation Agency
3	Heru	PT. KAI	Head of Purwakarta Train Station
4	Agus Effendi	Land Agency of Karawang Regency (BPN)	
5	Wawan Setiawan	Environmental Management Agency (BPLH)	
6	Iwan K.	Karawang Transportation Agency	
7	Kusnadi	Karawang Transportation Agency	
8	Teong N.	Karawang Transportation Agency	
9	Yufi	Land Division	
10	Nudi K. E.	Bappeda Karawang	
11	Julianto Agung N	Department of Highways and Irrigation (Bina Marga dan Pengairan)	

12	Dedi A.	Department of Human Settlements (Cipta Karya)	
13	H. Kudo	JICA Study Team	
14	Iis Muryadi	JICA Study Team	
15	Ahmad Sahab	JICA Study Team	
16	Aris V. De Sousa M.	JICA Study Team	

Table A3-20 Attendee List

Conference Name： Spatial Plan, Environmental, & Social Consideration of West Bandung Regency

Location： BAPPEDA West Bandung Regency

Date： 19/Dec/2014

Time： 13:30 – 16:15

NO.	NAME	POSISTION/INSTITUTION	
1	Diang Suherman	Bappeda West Bandung	Head of Physical Planning
2	Zulkarnaen	Transportation Agency	Head of Traffic Division
3	A. Fauzan A.	Transportation Agency	Staff
4	Wawan Darmawan	Environmental Department (KLH)	Staff
5	Ade Yayat	Department of Human Settlements (Cipta Karya) & Spatial Planning	
6	Suwarman	Bappeda West Bandung	Head of Physical Planning Sub-Division
7	M. Hakim	Bappeda West Bandung	Head of Spatial Plan Department
8	Asep S.	Technical Implementation Guidance Government Accounting Standards of West Bandung	
9	Kamal	Bappeda West Bandung	
10	Ibrahim Aji	Bappeda West Bandung	
11	A. Haris Kosaman	BPMPPI	

12	Chilyatun Nisa	Bappeda West Bandung	
13	Didik S.	Bappeda West Bandung	
14	Jejen	Bappeda West Bandung	
15	H. Kudo	JICA Study Team	
16	Iis Muryadi	JICA Study Team	
17	Aris. V De Sousa M.	JICA Study Team	
18	Alex Mahdi	JICA Study Team	

Table A3-21 Attendee List

Conference Name： Bekasi Station Location and Development Area

Location： BAPPEDA Bekasi City

Date： 23/Dec/2014

Time： 10:00 – 13:00

NO.	NAME	POSISTION/INSTITUTION	
1	Dadang Mulyana	Bappeda Bekasi City	Head of Phyiscal Bureau
2	Erwin Guwinda	City Planning Department of Bappeda Bekasi City	
3	Erwin	Department of Transportation of Bappeda Bekasi City	
4	Yudi Saptono	City Planning Department Bappeda Bekasi City	
5	Marlina	City Planning Department Bappeda Bekasi City	
6	Teguh Indrianto	Department of Transportation of Bappeda Bekasi City	
7	Jarwan	Economic Development Division of Bappeda Bekasi City	

8	Nasibulkh	Economic Development Division of Bappeda Bekasi City	
9	Ruru G.	Bappeda Bekasi City	
10	H. Kudo	JICA Study Team	
11	Aris. V De Sousa M.	JICA Study Team	
12	Alimin Jahja	JICA Study Team	
13	Fajar A.	JICA Study Team	
14	Ahmad Sahab	JICA Study Team	
15	Iis Muryadi	JICA Study Team	

Table A3-22 Attendee List

Conference Name： Study Team Workshop Meeting about Progress Presentation Organization, Financing, Project Structure, and Economic Analysis; HSR Authority and Strategic Management; Legal Analysis on the Establishment of New SOE for HSR Project.

Location： JIC Jakarta Office, Oria Hotel 9th floor

Date： 21/Jan/2015

Time： 09:00 – 13:00

NO.	NAME	POSISTION/INSTITUTION	
1	Prasetyo Rianda M	PUSTRAL UGM	Project Assistant
2	Eddi Santosa	PUSTRAL UGM	Institutional Specialist
3	Danang Parikesit	PUSTRAL UGM	Team Leader; Infrastructure Expert
4	Milatia Kusuma	PUSTRAL UGM	Project Financing Expert
5	Dipo	PUSTRAL UGM	Assistant Project Financing Expert
6	Gatot PU	PUSTRAL UGM	Strategic Management
7	Yantri Dewi	PUSTRAL UGM	Assistant Institutional Specialist
8	Yusa Cahya Permana	PUSTRAL UGM	Project Assistant
9	Sulistiowati	PUSTRAL UGM	SoE Specialist
10	Eddy Junarsin	JICA Study Team	PPP & Financial Specialist
11	Yasuo Izumi	JICA Study Team	
12	Masaaki Hara	JICA Study Team	

Table A3-23 Attendee List

Conference Name： Business Scheme Working Group meeting

Location： Directorate General of Railway Meeting Room. Ministry of Transportation

Date： 28/Jan/2015

Time： 13:30 – end

NO.	NAME	POSISTION/INSTITUTION	
1	Hanggoro B. W.	DGR	Ministry of Transportation
2	Prasetyo B.	DGR	
3	Kazuhisa Kodama	Japan Embassy	
4	Daisuke Oura	JICA	
5	Ahmad Yudistira	IRSDP	Bappenas
6	Shinya Suzuki	MLLI - Japan	
7	Milatia	Pustral UGM	
8	Dipowirawan	Pustral UGM	
9	Yusa Cahya Permana	Pustral UGM	
10	Devi N.	Pustral UGM	
11	Reni	Pustral UGM	
12	Hilda	Pustral UGM	
13	Ajeng Anggita		Bappenas
14	Prasetyo R. M.	Pustral UGM	
15	Danang P.	Pustral UGM	
16	Bastary P. Indra	PKPS	Bappenas
17	Jumanto	DJKA	
18	Bernadette E. S. M.	DJKA	
19	Kurniawan Agung	DJKA	
20	Endah	JICA Study Team	

21	Yasuo Izumi	JICA Study Team	
22	Akihiro Shimomura	JICA Study Team	
23	Kazuhiko Otani	JICA Study Team	
24	Masaaki Hara	JICA Study Team	
25	Toshiaki Horii	JICA Study Team	
26	Enrico T. L.	JICA Study Team	
27	H. Mizui	JICA Study Team	
28	Iis M.	JICA Study Team	

Table A3-24 Attendee List

Conference Name： Working Group (Scheme) – 4 about Jakarta – Bandung HSR

Location： Majapahit Room, Ministry of Transportation

Date： 13/Mar/2015

Time： 13:30 – 15:30

NO.	NAME	POSISTION/INSTITUTION	
1	Imran Rosyid	Secretary Directorate General	DGR, Ministry of Transportation
2	Wahyu Utomo	Assistant Deputy of Housing, Land & PPP	CMEA
3	Jumanto	DGR	Ministry of Transportation
4	Ahmad Yudistira	PKPS	Bappenas
5	Agung S.	DGR Infrastructure	Ministry of Transportation
6	Yofi O.	DGR Infrastructure	Ministry of Transportation
7	Danang P.	UGM	
8	Muraoka H.	JICA	
9	Daisuke Oura	JICA	
10	Kazuhiko Otani	JST	
11	Eddy Junarsin	JST	
12	Yasuo Izumi	JST	
13	H. Mizui	JST	
14	Akihiro Shimomura	JST	
15	Hedia A.	JST	

Table A3-25 Attendee List

Conference Name： Harmonize HSR Project and Master plan Industrial Area at Karawang

Location： Meeting Room of Bappeda Karawang

Date： 27/Mar/2015

Time： 10:00 – 12:00

NO.	NAME	POSISTION/INSTITUTION	
1	Sugiarto S.		PT. Pertiwi Lestari
2	Sawandi S.		PT. Pertiwi Lestari
3	Pingping N.		PT. Pertiwi Lestari
4	Timoti		PT. Pertiwi Lestari
5	N. Eka Sanantha	Head of Bappeda	Bappeda Karawang Regency
6	Dindin Rachmadhy	Chief of Infrastructure and Spatial Division	Bappeda Karawang Regency
7	Agustien N.	Infrastructure and Spatial Division	Bappeda Karawang Regency
8	Nur'aini Maharani		Bappeda Karawang Regency
9	Nanang F.		Bappeda Karawang Regency
10	Puguh T.H.		Bappeda Karawang Regency
11	Toshiaki Horii	JST	
12	T. Fukushima	JST	
13	Iis Muryadi	JST	

Table A3-26 Attendee List

Conference Name : 4th Coordination Meeting (Draft Final Report)

Location : Meeting Room of CMEA

Date : 10/April/2015

Time : 09:30 – 11:30

NO.	NAME	POSISTION/INSTITUTION	
1	Ofyar Z Tamin	Professor	ITB
2	Satria Piliang	Business Development manager	PT. PP (Persero) Tbk
3	Yoshiyuki Nagasaka		MLIT
4	K. Kodama	First Secretary	Embassy of Japan
5	M. Abdul Hamzah		West Java provincial Government
6	Kijima Y	Minister	Embassy of Japan
7	Rochjid		
8	Eddy Junarsih	JST	
9	Okada Takashi		ERIA (JR East)
10	Imam Hendarso	Deputi I	Ministry of Enviroment (KLHK)
11	Tina		JICA
12	Berman Gurning	Project Manager	PT. Waskita
13	Kengo Maeda		KCJ (JR East)
14	Nana. A		TRP (Spatial & Agrarian) Bappenas
15	Pinkan. A		CMEA
16	Wahyu Utomo		CMEA
17	Rifan. A		Ministry of Enviroment (KLHK)
18	Danang Parikesit		UGM

19	Ganang Prakoso		ATR (Agrarian & Spatial) BPN
20	M. Noor Marzuki	Director	Directorate (Agrarian & Spatial) ATR BPN
21	Abdul Kadir		ATR (Agrarian & Spatial) BPN
22	Winpi Aspar	Professor	BPPT
23	Indra Permana		Bappeda West Java Government
24	Hardy Siahaan		Directorate General Bina Marga for DKI Jakarta Province
25	Bambang Hartadi	Head of National Road Implementing Agency	Directorate General Bina Marga for DKI Jakarta Province
26	Hilman D		DJPR – Kemenko (CMEA)
27	Pri Galih	Chief of Safety Improvement div	Safety Directorate of Railway. DGR
28	M. Risal	Chief of Sub Directorate Analysis and accident care	Safety Directorate of Railway. DGR
29	Eksi H		YEC
30	Bastary Panji	Director of PPP	Directorate PPP of Bappenas
31	Imran Rasyid	Secretaries DGR	Ministry of Transportation
32	Hermanto D	Director General of Railways	DGR, Ministry of Transportation
33	Budi Situmorang		Directorate Agrarian and Spatial of Public Work Ministry
34	Hanifah K		Directorate Planology of Ministry of Forestry
35	Yofi. O		Directorate Infrastructure railway of DGR
36	Rimun W	Equator	
37	Poppy SB		Bureau Economic of West Java Secretariat

			Government
38	Deny Juanda	Head of Bappeda	West Java Provincial Gov.
39	Fajar T		West Java Provincial Gov.
40	Arya Indra		DJPR- Kemenko (CMEA)
41	Yusup		DJPR- Kemenko (CMEA)
42	Arozi		
43	Dirza A		
44	M. Ihsani		CMEA
45	Ghea Swastika	Business Analys	PT. PP (Persero) Tbk
46	Alan		PT. KAI
47	Oura	Representative	JICA
48	Muraoka	Senior Representative	JICA
49	Akimura	Project Leader	JICA – JUTPI 2
50	Akimoto	JICA Expert	JICA / DKI (Jakarta MRT)
51	Thomas ATW		PT. Waskita karya
52	Elmy Yashinta		Directorate Spatial and Agrarian - Bappenas
53	Kenwie Leonard		CMEA
54	Fadzan		ICBM
55	Bagus Ds		Ministry of Forestry
56	Gatot Trihargo	Deputy Minister	KBUMN (SOE Ministry)
57	Kurniawan Ariadi		Bappenas
58	Maman S		KemenKeu (Ministry of Financial)
59	Gia Nugraha		Ministry of Financial
60	Syaiful Bahri		Ministry of Transportation
61	Dail Umamil		Transportation. Bappenas

62	Kurniawan BS		Ministry of Forestry
63	Ajung S		Ministry of Transportation
64	Agi Usayagi		DKI Jakarta
65	Djoko Prijo Utomo	Chief of Tecnichal Infrastructure Transportation	BPPT
66	L. Anggraeni	Secretaries of West Java Gov	West Java Province Government
67	Linda al Amiin	Secretaries of Bappeda	Bappeda West Java Province
68	Slamet Ms		Bappeda West Java Province
69	Eben .S	Dit. LLAKA	DGR
70	Riska	Dit. LLAKA	DGR
71	Didi Kurniawan	Transportation Agency (DisHUb)	DKI Jakarta
72	Krishnanda. P	Transportation Agency (DisHub)	DKI Jakarta
73	Maria Tri Rosari		CMEA
74	Bianza A.R		CMEA
75	Luky Eko Wuryanto	Deputy Minister	CMEA
76	Dedi S. Priyatna	Deputy Minister	Bappenas
77	H. Mizui	JST	
78	T. Horii	JST	
79	Iis Muryadi	JST	
80	Rachmadi	JST	
81	Hedia A	JST	

82	M. Hara	JST	
83	Saito Tetsuya	JST	
84	Izumi	JST	
85	Endah	JST	
86	Otani	JST	