

**LAMPIRAN I :**

**FOTO DOKUMENTASI PADA SAAT LOADING TEST**



Pelaksanaan *loading test* dengan beban langsung (*Kentledge System*) pada *pile* no: 35 BP 80-31 yang dilaksanakan pada tanggal 18 September 2014



Penulis sedang mengamati pembacaan *settlement* pada *Dial Gauge 2*



Pelaksanaan *loading test* dengan beban langsung (*Kentledge System*) pada *pile* no: 35 BP 80-31 yang dilaksanakan pada tanggal 18 September 2014



Manometer pengontrol (*pressure gauge*) dan pompa (*pump*) yang digunakan

**LAMPIRAN II :**  
**DATA PENYELIDIKAN TANAH**

<b>PROJECT :</b>		<b>SARAJIA HOTEL</b>	<b>DRILLING LOG</b>	
Draw No. :	0000 0000 - 0000-00			Geological Scale :
Location :	0000 0000			Map Sheet No. :
Contract No. :	0000 0000			Scale :
Date :	00/00/0000			
Drawn By :	0000 0000			

Depth (m)	Type	Soils	Description of Layer	Standard Penetration Test (SPT)			
				No. of Blows	N		
				60 cm SPT			Blows
0.00			Topsoil (0.00 - 0.15)				
0.15			Soft clay				
0.30			Medium clay				
0.45			Hard clay				
0.60			Very hard clay				
0.75			Very hard clay				
0.90			Very hard clay				
1.05			Very hard clay				
1.20			Very hard clay				
1.35			Very hard clay				
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Soils	Description	Color	Moisture	Liquid Limit	Plastic Limit	Shrinkage	SPT	Remarks
Soils	Description	Color	Moisture	Liquid Limit	Plastic Limit	Shrinkage	SPT	Remarks
Soils	Description	Color	Moisture	Liquid Limit	Plastic Limit	Shrinkage	SPT	Remarks
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**LABORATORIUM TEKNIK SIPIL**  
**POLITEKNIK NEGERI MEDAN**

Jl. Almamater No. 1 Kampus USU, MEDAN - 20155  
 Telp. Jurusan Teknik Sipil : (061) 7700264, Fax. 061-8219486



Client	: PT. TOROMDA	Tested by	: Salamuddin
Project	: Rencana Pembangunan Hotel Sunda	Processed by	: Salamuddin
Location	: J. Sagarangriak, Medan	Checked by	: Supri P, S.T., M.T.
Sample	: SH		

**SUMMARY OF LABORATORY TEST**

No	Location	Depth (m)	Sieve Analysis					WPC (%)	γ <sub>w</sub> (kN/m <sup>3</sup> )
			75µm (%)	75 (µ)	150 (µ)	300 (µ)	600 (µ)		
1	SH-1	2.00 - 2.50	68.71	22.37	12.48	4.24	18.20	40.00	1.70
2		4.00 - 4.50	54.90	31.42	12.30	1.06	18.24	23.31	1.62
3		6.00 - 6.50	25.87	48.27	19.89	8.18	74.30	49.82	1.80
4		8.00 - 8.50	1.02	13.80	42.00	0.27	18.27	20.78	1.90
5		10.00 - 10.50	0.80	23.90	29.20	0.20	18.17	40.12	1.73
6		12.00 - 12.50	1.12	13.21	41.27	3.19	18.90	20.17	1.80
7		14.00 - 14.50	1.40	14.20	31.40	0.88	18.28	26.80	1.80
8		16.00 - 16.50	0.26	12.20	24.41	0.00	18.21	20.24	1.80
9		18.00 - 18.50	0.28	11.20	18.20	0.00	18.20	44.22	1.80
10		20.00 - 20.50	0.20	14.24	34.40	0.00	18.20	7.20	1.80
11		22.00 - 22.50	0.88	22.18	29.28	0.20	18.12	18.20	1.81
12		24.00 - 24.50	0.48	14.24	41.18	0.00	18.24	14.12	1.80
13		26.00 - 26.50	0.04	28.24	21.20	0.00	18.18	21.28	1.80
14		28.00 - 28.50	0.00	24.20	14.20	0.00	18.20	7.44	1.81
15		30.00 - 30.50	0.78	20.20	18.20	0.00	18.20	8.18	1.80

No	Location	Depth (m)	γ <sub>d</sub> (kN/m <sup>3</sup> )	Atterberg Limit			Direct Shear Test		
				U <sub>c</sub>	LL (%)	PL (%)	φ (°)	c (kN/m <sup>2</sup> )	
1	SH-1	2.00 - 2.50	1.22	2.89	38.00	24.00	14.00	-	-
2		4.00 - 4.50	1.45	2.27	20.12	18.08	13.51	-	-
3		6.00 - 6.50	1.21	3.59	28.12	21.48	10.64	-	-
4		8.00 - 8.50	1.63	2.62	30°	30°	30°	40.2070	0.00
5		10.00 - 10.50	1.24	2.62	30°	30°	30°	40.1378	0.00
6		12.00 - 12.50	1.84	2.64	30°	30°	30°	41.30040	0.00
7		14.00 - 14.50	1.52	2.62	30°	30°	30°	38.24752	0.00
8		16.00 - 16.50	1.28	2.61	30°	30°	30°	38.21800	0.00
9		18.00 - 18.50	1.17	2.81	30°	30°	30°	38.25025	0.00
10		20.00 - 20.50	1.03	2.83	30°	30°	30°	35.20415	0.00
11		22.00 - 22.50	1.63	2.64	30°	30°	30°	41.30070	0.00
12		24.00 - 24.50	1.24	2.64	30°	30°	30°	40.21871	0.00
13		26.00 - 26.50	1.28	2.83	30°	30°	30°	41.30640	0.00
14		28.00 - 28.50	1.55	2.81	30°	30°	30°	40.21200	0.00
15		30.00 - 30.50	1.54	2.63	30°	30°	30°	41.40818	0.00

**LAMPIRAN III :**  
**LAPORAN PERCOBAAN PEMBEBANAN VERTIKAL**  
**(COMPRESSIVE LOADING TEST) GEDUNG HOTEL SAPADIA**

**Test Pembebanan = 500 ton**

**Pondasi Bored Pile dia. 800 mm**

**RECORD OF PILE TEST RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

Project : PEMBANGUNAN HOTEL SAPADIA  
 Jl. Singamangaraja - Medan  
 No. Pile : 35 BP 80-31  
 Date of Installation :  
 Size of Pile : Ø 800 mm  
 Working Load : 250 Ton  
 Length of Pile : 23,5 m

Date of Testing : 18 September 2014  
 Test Method : Kentledge System  
 Test Load : 500 Ton  
 Ground Level :  
 Loading Standart : ASTM D.1143-81

Date / time (WIB)	Elapsed Time (minute)	Test Load			Settlement (mm)				Average of Settlement (mm)
		kN	TON	Psi	1	2	3	4	
13,25	0	75	187,3	2973,71	1,75	0,95	0,50	0,9	1,025
13,35	10				1,80	1,00	0,53	0,95	1,070
13,45	20				1,82	1,01	0,53	0,96	1,083
13,55	30				1,84	1,01	0,54	0,96	1,088
14,05	40				1,85	1,01	0,54	0,96	1,090
14,05	50				1,86	1,02	0,54	0,96	1,095
14,25	60				1,88	1,09	0,55	0,99	1,125
14,30	0	100	250	3964,85	2,34	1,32	1,4	1,36	1,605
14,40	10				2,36	1,37	1,41	1,38	1,630
14,50	20				2,37	1,39	1,42	1,39	1,643
15,00	30				2,38	1,39	1,42	1,40	1,648
15,10	40				2,39	1,39	1,42	1,40	1,650
15,20	50				2,40	1,39	1,42	1,41	1,655
15,30	60				2,40	1,39	1,42	1,41	1,655
15,35	0	75	187,5	2973,71	2,35	1,34	1,4	1,38	1,618
15,45	10				2,35	1,34	1,39	1,38	1,615
15,55	20				2,35	1,34	1,39	1,37	1,613
16,00	0	50	125	1982,48	1,75	0,89	1,05	0,95	1,160
16,10	10				1,75	0,89	1,05	0,95	1,160
16,20	20				1,75	0,89	1,05	0,95	1,160
16,25	0	0	0	0,00	0,66	0,34	0,04	0,26	0,325
16,35	10				0,54	0,21	0,03	0,18	0,240
16,45	20				0,50	0,18	0,02	0,15	0,215
16,55	30				0,47	0,16	0,01	0,13	0,199
17,05	40				0,46	0,15	0,00	0,12	0,183
17,15	50				0,45	0,14	0,00	0,11	0,175
17,25	60				0,45	0,14	0,00	0,11	0,175

PT. TORGANDA

PT. JASA KONSTRUKSI MANDIRI

*M. Berjani*  
 M. Berjani



**RECORD OF PILE TEST RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

Project : PEMBANGUNAN HOTEL SAPADIA  
 Jl. Sisingamangaraja - Medan  
 No. Pile : 35 BP 80-31  
 Date of Installation :  
 Size of Pile : Ø 800 mm  
 Working Load : 250 Ton  
 Length of Pile : 23,5 m

Date of Testing : 18 September 2014  
 Test Method : Kentledge System  
 Test Load : 500 Ton  
 Ground Level :  
 Loading Standart : ASTM D.1143-81

Date / Time (WIB)	Elapsed Time (minute)	Test Load			Settlement (mm)				Average of Settlement (mm)
		%	TON	Pile	Dial Gauge				
					1	2	3	4	
9,10	0	25	62,5	991,24	0,51	0,4	0,30	0,35	0,340
9,30	10				0,52	0,41	0,30	0,36	0,348
9,30	20				0,52	0,41	0,30	0,36	0,348
9,40	30				0,52	0,41	0,30	0,36	0,348
9,50	40				0,52	0,42	0,30	0,36	0,350
10,00	50				0,52	0,42	0,30	0,36	0,350
10,10	60				0,52	0,42	0,30	0,36	0,350
10,20	0	50	125	1992,48	1,10	0,66	0,32	0,44	0,630
10,30	10				1,11	0,66	0,32	0,44	0,633
10,40	20				1,11	0,66	0,32	0,44	0,633
10,50	30				1,11	0,67	0,32	0,44	0,635
11,00	40				1,11	0,67	0,32	0,44	0,635
11,10	50				1,11	0,67	0,32	0,44	0,635
11,20	60				1,11	0,67	0,32	0,44	0,635
11,25	0	25	62,5	991,24	0,80	0,50	0,28	0,29	0,470
11,35	10				0,79	0,49	0,27	0,27	0,455
11,45	20				0,79	0,47	0,25	0,26	0,443
11,50	0	0	0	0	0,12	0,09	0,02	0,02	0,063
12,00	10				0,06	0,02	0,01	0,02	0,028
12,10	20				0,06	0,02	0,01	0,02	0,028
12,20	30				0,05	0,02	0,01	0,02	0,025
12,30	40				0,05	0,02	0,00	0,01	0,020
12,40	50				0,04	0,02	0,00	0,01	0,018
12,50	60				0,04	0,02	0,00	0,01	0,018
13,00	0	50	125	1992,48	1,15	0,69	0,35	0,50	0,673
13,10	10				1,16	0,69	0,35	0,50	0,675
13,20	20				1,16	0,69	0,35	0,50	0,675

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PT. JASA KONSTRUKSI MANDIRI

**RECORD OF PILE TEST RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

Project : PEMBANGUNAN HOTEL SAPADIA  
 Jl. Stalingamangaraja - Medan  
 Date of Testing : 18 September 2014  
 No. Pile : 35 BP 80-31  
 Test Method : Kentledge System  
 Date of Installation :  
 Test Load : 500 Ton  
 Size of Pile : Ø 800 mm  
 Ground Level :  
 Working Load : 250 Ton  
 Loading Standard : ASTM D.1143-81  
 Length of Pile : 23,5 m

Date / Time (WIB)	Elapsed Time (minutes)	Test Load			Settlement (mm)				Average of Settlement (mm)
		kN	TON	Psi	1	2	3	4	
17,30	0	50	12,5	1982,49	1,37	0,83	0,52	0,76	0,870
17,40	10				1,38	0,84	0,53	0,77	0,880
17,50	20				1,39	0,85	0,54	0,78	0,890
18,10	0	100	250	3964,93	2,60	1,50	1,45	1,50	1,763
18,20	10				2,62	1,52	1,47	1,52	1,781
18,30	20				2,65	1,55	1,50	1,55	1,813
18,55	0	125	312,5	4956,19	3,51	2,85	2,55	2,26	2,793
19,05	10				3,55	2,87	2,58	2,29	2,823
19,15	300				3,59	2,89	2,6	2,31	2,848
19,40	0	150	375	5947,43	3,88	3,04	3,85	3,69	3,615
19,50	10				3,9	3,05	3,86	3,71	3,630
20,00	20				3,92	3,06	3,87	3,72	3,643
20,10	30				3,93	3,07	3,88	3,73	3,653
20,20	40				3,94	3,07	3,88	3,74	3,658
20,30	50				3,95	3,08	3,89	3,75	3,668
20,40	60				3,95	3,08	3,89	3,75	3,668
20,45	0	125	312,5	4956,19	3,67	2,99	2,72	2,42	2,950
20,55	10				3,64	2,95	2,68	2,37	2,910
21,00	20				3,63	2,94	2,67	2,36	2,900
21,10	0	100	250		2,78	1,69	1,65	1,68	1,945
21,20	10				2,74	1,67	1,63	1,65	1,923
21,20	20				2,73	1,66	1,62	1,64	1,910
21,35	0	50	12,5	1982,49	1,97	1,12	1,09	1,04	1,305
21,45	10				1,95	1,10	1,08	1,03	1,290
21,55	20				1,94	1,09	1,07	1,02	1,280

PT. TORGANDA

PT. JASA KONSTRUKSI MANDIRI



*M. Skojan*  
 M. Skojan

**RECORD OF PILE TEST RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

Project	PEMBANGUNAN HOTEL SAPADIA Jl. Sisingamangaraja - Medan	Date of Testing	18 September 2014
No. Pile	35 BP 80-31	Test Method	Kentledge System
Date of Installation		Test Load	800 Ton
Size of Pile	Ø 800 mm	Ground Level	
Working Load	250 Ton	Loading Standard	ASTM D,3143-81
Length of Pile	23,5 m		

Date / time (WIB)	Elapsed time (minutes)	Test Load			Settlement (mm)				Average of Settlement (mm)
		W	TON	P11	1	2	3	4	
9,10	0	25	62,3	891,24	0,31	0,4	0,30	0,15	0,340
9,20	10				0,32	0,41	0,30	0,15	0,348
9,30	20				0,32	0,41	0,30	0,15	0,348
9,40	30				0,32	0,41	0,30	0,15	0,348
9,50	40				0,32	0,42	0,30	0,15	0,350
10,00	50				0,32	0,42	0,30	0,15	0,350
10,10	60				0,32	0,42	0,30	0,15	0,350
10,20	0	50	125	1982,48	1,10	0,66	0,32	0,44	0,630
10,30	10				1,11	0,66	0,32	0,44	0,633
10,40	20				1,11	0,66	0,32	0,44	0,633
10,50	30				1,11	0,67	0,32	0,44	0,635
11,00	40				1,11	0,67	0,32	0,44	0,635
11,10	50				1,11	0,67	0,32	0,44	0,635
11,20	60				1,11	0,67	0,32	0,44	0,635
11,25	0	25	62,3	891,24	0,30	0,50	0,25	0,29	0,470
11,35	10				0,28	0,49	0,27	0,27	0,455
11,45	20				0,28	0,47	0,25	0,26	0,443
11,50	0	0	0	0	0,12	0,09	0,02	0,02	0,063
12,00	10				0,06	0,02	0,01	0,02	0,028
12,10	20				0,06	0,02	0,01	0,02	0,028
12,20	30				0,05	0,02	0,01	0,02	0,025
12,30	40				0,05	0,02	0,00	0,01	0,020
12,40	50				0,04	0,02	0,00	0,01	0,018
12,50	60				0,04	0,02	0,00	0,01	0,018
13,00	0	50	125	1982,48	1,15	0,69	0,35	0,50	0,673
13,10	10				1,16	0,69	0,35	0,50	0,675
13,20	20				1,16	0,69	0,35	0,50	0,675

PT. TORANGKA

PT. JASA KONSTRUKSI MANDIRI

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*M. Singia*  
M. Singia

**RECORD OF PILE ULS: RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

Project	: PEMBANGUNAN HOTEL SAPADIA	Date of Testing	: 18 September 2014
	: Jl. Sisiraganagara - Medan	Test Method	: Kentledge System
No. Pile	: 35 BP 60-31	Test Load	: 500 Ton
Date of Installation	:	Ground Level	:
Size of Pile	: Ø 800 mm	Loading Standard	: ASTM D1143-81
Working Load	: 250 Ton		
Length of Pile	: 23.5 m		

Date / Time (WAB)	Elapsed time (minute)	Test Load			Settlement (mm)				Average of Settlement (mm)
		%	T.O.N	Pa	Dial Gauge				
					1	2	3	4	
22,00	0	0	0	0	0,78	0,51	0,09	0,38	0,440
22,10	10				0,78	0,5	0,00	0,37	0,433
22,20	20				0,77	0,49	0,01	0,38	0,423
22,30	30				0,77	0,48	0,01	0,36	0,423
22,40	40				0,77	0,48	0,01	0,36	0,423
22,50	50				0,76	0,48	0,00	0,35	0,413
23,00	60				0,76	0,48	0,00	0,35	0,413
23,05	0	50	125	1982,48	1,52	0,99	0,74	0,81	1,015
23,15	10				1,54	0,99	0,75	0,82	1,025
23,25	20				1,55	1,00	0,76	0,83	1,035
23,35	0	100	250	3964,95	2,72	1,54	1,68	2,29	2,083
23,45	10				2,73	1,55	1,69	2,40	2,093
23,55	20				2,74	1,56	1,70	2,41	2,103
24,05	0	150	375	5947,43	3,82	3,07	3,88	3,73	3,650
24,15	10				3,93	3,08	3,89	3,74	3,660
24,25	20				3,95	3,09	3,89	3,76	3,670
1,05	0	175	437,5	6938,66	4,42	3,55	3,61	3,61	3,798
1,15	10				4,44	3,56	3,62	3,62	3,810
1,25	20				4,46	3,57	3,63	3,63	3,823
1,35	30				4,47	3,58	3,64	3,64	3,833
1,45	40				4,48	3,58	3,64	3,64	3,835
1,55	50				4,48	3,58	3,64	3,64	3,835
2,05	60				4,48	3,58	3,64	3,64	3,835
2,20	0	200	500	1029,9	8,85	7,94	7,60	8,56	8,283
2,30	10				8,98	7,97	7,63	8,60	8,295
2,40	20				8,99	7,98	7,64	8,62	8,308
2,50	30				8,99	7,99	7,64	8,62	8,308
3,00	40				8,99	7,99	7,65	8,63	8,318
3,10	50				8,99	8,02	7,66	8,67	8,330

PT. TORGANDA

PT. JASA KONSTRUKSI MANDIRI

**RECORD OF PILE TEST RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

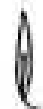
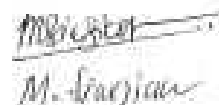
Project : PEMBANGUNAN HOTEL SAPADIA  
 Jl. Singamangaraja - Medan  
 No. Pile : 35 BP 60-31  
 Date of Installation :  
 Size of Pile : Ø 800 mm  
 Working Load : 250 Ton  
 Length of Pile : 23,5 m

Date of Testing : 19 September 2014  
 Test Method : Kentledge System  
 Test Load : 500 Ton  
 Ground Level :  
 Loading Standart : ASTM D.3142-81

Date / Time (with)	Elapsed Time (minute)	Test Load			Settlement (mm)				Average of Settlement (mm)
		Tk	TON	Pst	1	2	3	4	
1, 20	00	200	500	1926,9	8,06	8,05	7,71	8,72	8,385
3, 40	00			1	8,08	8,07	7,73	8,74	8,405
4, 00	100				8,11	8,09	7,75	8,76	8,428
4, 20	120				8,13	8,11	7,77	8,77	8,445
5, 20	180				8,15	8,13	7,79	8,78	8,463
6, 20	240				8,17	8,14	7,80	8,79	8,475
7, 20	300				8,19	8,15	7,81	8,82	8,493
8, 20	360				8,19	8,16	7,81	8,82	8,495
9, 20	420				8,2	8,18	7,82	8,83	8,508
10, 20	480				8,21	8,20	7,83	8,83	8,523
11, 20	540				8,21	8,20	7,83	8,83	8,525
12, 20	600				8,21	8,21	7,87	8,84	8,533
13, 20	660				8,22	8,22	7,87	8,84	8,538
13, 20	720				8,22	8,22	7,87	8,84	8,538
14, 30	0	175	437,5	6938,66	8,97	7,99	7,77	8,58	8,188
14, 40	10				8,91	7,93	7,75	8,51	8,125
14, 50	20				8,87	7,89	7,7	8,45	8,078
15, 00	0	150	375	5947,43	8,12	7,14	6,42	7,83	7,373
15, 10	10				8,08	7,10	6,38	7,79	7,338
15, 20	20				8,08	7,10	6,38	7,79	7,338
15, 25	0	100	250	3964,95	7,85	6,56	5,47	6,62	6,625
15, 35	10				7,82	6,53	5,44	6,59	6,595
15, 45	20				7,80	6,5	5,41	6,57	6,570
15, 55	0	50	125	1982,48	7,64	6,35	5,23	6,38	6,400
16, 05	10				7,61	6,32	5,2	6,34	6,368
16, 10	20				7,6	6,3	5,18	6,32	6,350

PT. TORUANDA

PT. JASA KONSTRUKSI MANDIRI

**RECORD OF PILE TEST RESULT  
(COMPRESSIVE LOADING TEST) For PILE FOUNDATION**

Project	PEMBANGUNAN HOTEL SAPADDA Jl. Siangmangaraja - Medan	Date of Testing	19 September 2014
No. Pile	35 BP 60-31	Test Method	kentledge System
Date of Installation		Test Load	500 Ton
Size of Pile	∅ 800 mm	Ground Level	
Working Load	250 Ton	Loading Standard	ASTM D.1143-81
Length of Pile	23.5 m		

Date / time (WB)	Elapsed Time (minute)	Test Load			Settlement (mm)				Average of Settlement (mm)
					Dial Gauge				
		%	T.O.N.	Psi	1	2	3	4	
16.15	0	0	0	0	5.38	5.58	5.50	5.49	5.488
16.25	10				5.16	5.38	5.39	5.38	5.353
16.35	20				5.16	5.33	5.31	5.27	5.285
16.45	30				5.11	5.28	5.29	5.22	5.225
16.55	40				5.09	5.26	5.27	5.2	5.205
17.05	50				5.01	5.14	5.18	5.11	5.110
17.15	60				4.88	5.09	5.11	4.99	5.030

PT. TORGANDA

PT. JASA KONSTRUKSI MANDIRI



*M. Siagian*  
M. Siagian