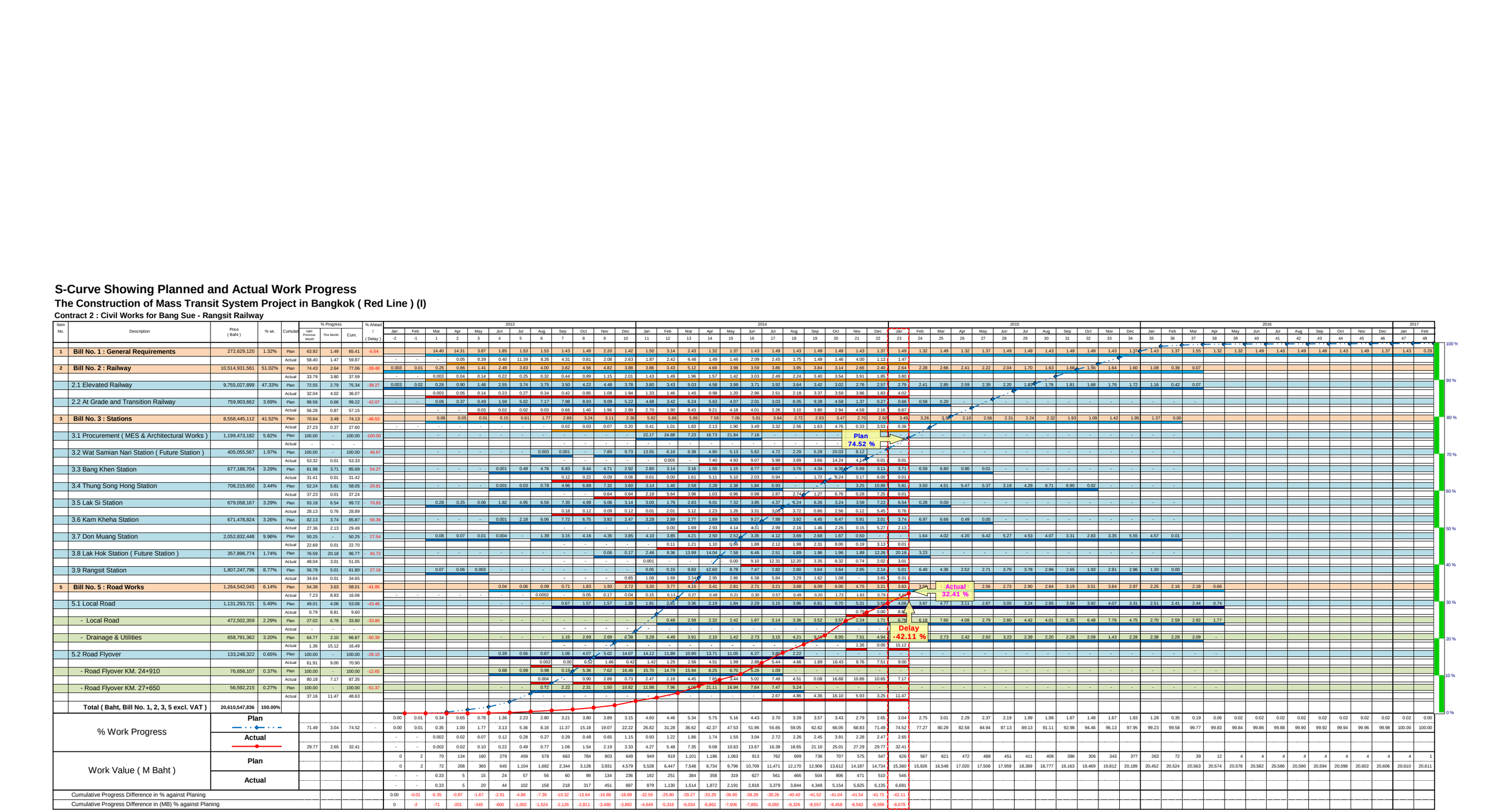
S-Curve Showing Planned and Actual Work Progress

The Construction of Mass Transit System Project in Bangkok (Red Line) (I)

Contract 2 : Civil Works for Bang Sue - Rangsit Railway

Item No.	Description	Price (Baht)	% wt.	Cumulative	% Progress: Upto Previous Month	% Progress: This Month	% Progress: Cum.	% Ahead / (Delay)
1	**Bill No. 1 : General Requirements**	272,629,120	1.32%	Plan	63.92	1.49	65.41	-5.54
				Actual	58.40	1.47	59.87	
2	**Bill No. 2 : Railway**	10,514,931,561	51.02%	Plan	74.43	2.64	77.06	-39.48
				Actual	33.79	3.80	37.59	
	2.1 Elevated Railway	9,755,027,899	47.33%	Plan	72.55	2.79	75.34	-39.27
				Actual	32.04	4.02	36.07	
	2.2 At Grade and Transition Railway	759,903,662	3.69%	Plan	98.56	0.66	99.22	-42.07
				Actual	56.28	0.87	57.15	
3	**Bill No. 3 : Stations**	8,558,445,112	41.52%	Plan	70.64	3.49	74.13	-46.53
				Actual	27.23	0.37	27.60	
	3.1 Procurement (MES & Architectural Works)	1,199,473,182	5.82%	Plan	100.00	-	100.00	-100.00
				Actual	-	-	-	
	3.2 Wat Samian Nari Station (Future Station)	405,055,567	1.97%	Plan	100.00	-	100.00	- 46.67
				Actual	53.32	0.01	53.33	
	3.3 Bang Khen Station	677,186,704	3.29%	Plan	81.98	3.71	85.69	- 54.27
				Actual	31.41	0.01	31.42	
	3.4 Thung Song Hong Station	708,215,650	3.44%	Plan	52.24	5.81	58.05	- 20.81
				Actual	37.23	0.01	37.24	
	3.5 Lak Si Station	679,058,167	3.29%	Plan	93.18	6.54	99.72	- 70.83
				Actual	28.13	0.76	28.89	
	3.6 Karn Kheha Station	671,478,824	3.26%	Plan	82.13	3.74	85.87	- 56.39
				Actual	27.36	2.13	29.49	
	3.7 Don Muang Station	2,052,832,448	9.96%	Plan	50.25	-	50.25	- 27.54
				Actual	22.69	0.01	22.70	
	3.8 Lak Hok Station (Future Station)	357,896,774	1.74%	Plan	76.59	20.18	96.77	- 45.72
				Actual	48.04	3.01	51.05	
	3.9 Rangsit Station	1,807,247,796	8.77%	Plan	56.79	5.01	61.80	- 27.16
				Actual	34.64	0.01	34.65	
5	**Bill No. 5 : Road Works**	1,264,542,043	6.14%	Plan	54.38	3.63	58.01	-41.95
				Actual	7.23	8.83	16.06	
	5.1 Local Road	1,131,293,721	5.49%	Plan	49.01	4.06	53.06	-43.46
				Actual	0.79	8.81	9.60	
	- Local Road	472,502,359	2.29%	Plan	27.02	6.78	33.80	-33.80
				Actual	-	-	-	
	- Drainage & Utilities	658,791,362	3.20%	Plan	64.77	2.10	66.87	-50.39
				Actual	1.36	15.12	16.49	
	5.2 Road Flyover	133,248,322	0.65%	Plan	100.00	-	100.00	-29.10
				Actual	61.91	9.00	70.90	
	- Road Flyover KM. 24+910	76,656,107	0.37%	Plan	100.00	-	100.00	-12.65
				Actual	80.18	7.17	87.35	
	- Road Flyover KM. 27+650	56,592,215	0.27%	Plan	100.00	-	100.00	-51.37
				Actual	37.16	11.47	48.63	
	Total (Baht, Bill No. 1, 2, 3, 5 excl. VAT)	**20,610,547,836**	**100.00%**					

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
		2013												2014												2015												2016												2017	
		-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
1	Plan			14.40	14.31	3.87	1.85	1.53	1.53	1.43	1.49	2.20	1.42	1.50	3.14	2.43	1.32	1.37	1.43	1.49	1.43	1.49	1.49	1.43	1.37	1.49	1.32	1.49	1.32	1.37	1.49	1.49	1.43	1.49	1.49	1.43	1.37	1.43	1.37	1.55	1.32	1.32	1.49	1.43	1.49	1.49	1.43	1.49	1.37	1.43	0.29
	Actual	-	-	-	0.05	0.39	0.40	11.39	8.26	4.31	0.81	2.08	2.63	1.87	2.42	6.48	1.49	1.46	2.09	2.45	1.75	1.49	1.46	4.00	1.12	1.47																									
2	Plan	0.003	0.01	0.25	0.86	1.41	2.49	3.83	4.00	3.82	4.56	4.82	3.88	3.86	3.43	5.12	4.66	3.98	3.59	3.86	3.95	3.84	3.14	2.66	2.40	2.64	2.28	2.66	2.41	2.22	2.04	1.70	1.63	1.68	1.56	1.64	1.60	1.08	0.39	0.07											
	Actual	-	-	0.003	0.04	0.14	0.22	0.25	0.32	0.44	0.89	1.15	2.01	1.43	1.49	1.96	1.57	1.42	3.03	2.49	2.24	3.40	3.54	3.91	1.85	3.80																									
	Plan	0.003	0.02	0.26	0.90	1.48	2.55	3.74	3.75	3.50	4.22	4.48	3.78	3.80	3.43	5.03	4.58	3.98	3.71	3.92	3.64	3.42	3.02	2.76	2.57	2.79	2.41	2.85	2.59	2.39	2.20	1.83	1.76	1.81	1.68	1.76	1.72	1.16	0.42	0.07											
	Actual			0.003	0.05	0.14	0.23	0.27	0.34	0.42	0.85	1.08	1.94	1.33	1.46	1.45	0.98	1.20	2.96	2.51	2.18	3.37	3.59	3.86	1.83	4.02																									
	Plan	-	-	0.06	0.37	0.49	1.59	5.02	7.17	7.98	8.93	9.09	5.22	4.68	3.42	6.24	5.63	4.07	2.01	3.03	8.05	9.28	4.58	1.37	0.27	0.66	0.58	0.20	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual			-	-	0.03	0.02	0.02	0.03	0.66	1.40	1.96	2.89	2.70	1.90	8.43	9.21	4.18	4.01	2.26	3.10	3.80	2.94	4.58	2.16	0.87																									
3	Plan			0.06	0.05	0.01	0.15	0.61	1.77	2.89	3.24	3.11	2.36	5.82	5.86	5.89	7.58	7.06	5.81	3.64	2.72	2.93	3.47	2.70	2.92	3.49	3.26	3.38	2.10	2.56	2.31	2.24	2.32	1.93	1.09	1.42	1.95	1.37	0.00											
	Actual	-	-	-	-	-	-	-	-	0.02	0.03	0.07	0.20	0.41	1.01	1.83	2.13	1.90	3.49	3.32	2.56	1.63	4.76	0.33	3.53	0.36																									
	Plan			-	-	-	-	-	-	-	-	-	-	22.17	24.88	7.23	16.73	21.84	7.16	-	-	-	-	Plan		-	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74.52 %		-																							
	Plan			-	-	-	-	-	0.003	0.001	-	7.89	9.73	13.55	6.16	6.38	4.90	5.13	5.82	4.72	2.29	5.28	20.03	8.12		-	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual			-	-	-	-	-	-	-	-	-	-	-	0.005	-	7.40	4.93	9.07	5.98	3.89	3.66	14.24	4.14	0.01	0.01																									
	Plan			-	-	-	0.001	0.49	4.76	6.83	9.44	4.71	2.92	2.80	3.14	3.16	1.55	1.15	8.77	8.67	3.76	4.34	6.38	5.99	3.11	3.71	6.59	6.80	0.90	0.01	-	-	-	-	-	-	-	-	-											
	Actual									0.12	0.22	0.09	0.06	0.01	0.00	1.61	5.11	5.10	2.03	0.94	-	1.72	3.24	0.17	6.00	0.01																									
	Plan			-	-	-	0.001	0.03	0.78	4.96	6.88	7.32	3.60	3.14	1.40	2.58	2.26	2.38	1.84	0.93	-	-	-	3.25	10.89	5.81	3.50	4.51	5.47	5.37	3.19	4.29	8.71	6.90	0.02	-	-	-	-											
	Actual											0.64	0.64	2.18	5.64	3.98	1.03	0.96	0.98	2.87	2.74	1.27	6.76	0.28	7.25	0.01																									
	Plan			0.28	0.25	0.06	1.82	4.95	6.56	7.35	4.98	5.06	3.14	3.00	1.79	2.83	9.01	7.32	3.85	4.37	9.24	6.26	3.24	3.59	7.22	6.54	0.28	0.00	-	-	-	-	-	-	-	-	-	-											
	Actual																																																
	Plan			-	-	-	0.001	2.18	6.06	7.72	6.75	3.92	2.47	3.28	2.89	2.77	1.69	1.50	9.27	7.88	3.92	4.45	6.47	5.91	3.01	3.74	6.97	6.66	0.49	0.00	-	-	-	-	-	-	-	-	-											
	Actual														0.00	1.69	2.93	4.14	4.31	2.99	2.16	1.46	2.26	0.15	5.27	2.13																									
	Plan			0.08	0.07	0.01	0.004	-	1.39	3.15	4.16	4.35	3.85	4.10	3.85	4.21	2.50	2.52	3.35	4.12	3.69	2.68	1.67	0.50	-	-	1.64	4.02	4.20	6.42	5.27	4.53	4.07	3.31	2.83	3.35	5.55	4.57	0.01											
	Actual														0.11	1.21	1.10	0.66	1.88	2.12	1.98	2.31	8.00	0.19	3.13	0.01																									
	Plan			-	-	-	-	-	-	-	-	0.06	0.17	2.46	9.36	13.99	14.04	7.58	6.46	2.51	1.89	1.96	1.96	1.89	12.26	20.18	3.23	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual													0.001	-	-	-	0.00	9.10	12.31	12.20	3.35	8.32	0.74	2.02	3.01																									
	Plan			0.07	0.06	0.003	-	-	-	-	-	-	-	0.05	0.15	9.83	12.60	8.78	7.47	2.82	2.60	3.64	3.64	2.95	2.14	5.01	6.40	4.36	2.52	2.71	3.70	3.78	2.96	2.65	1.93	2.91	2.96	1.30	0.00											
	Actual														1.69	3.34	2.95	2.86	6.58	5.84	3.29	1.62	1.08	-	3.65	0.01																									
5	Plan						0.04	0.06	0.09	0.71	1.83	1.93	2.72	3.20	3.77	4.15	3.41	2.81	2.71	3.21	3.68	6.09	6.00	4.75	3.21	3.63	3.54	Actual		2.56	2.73	2.90	2.64	3.19	3.51	3.64	2.97	2.25	2.16	2.18	0.66											
	Actual	-	-	-	-	-	-	-	0.0002	-	0.05	0.17	0.04	0.15	0.13	0.27	0.48	0.21	0.30	0.57	0.49	0.20	1.73	1.63	0.79	8.83																									
	Plan						-	-	-	0.67	1.57	1.57	1.39	1.91	2.81	3.36	2.19	1.84	2.29	3.15	3.86	6.81	6.70	5.31	3.59	4.06	3.97	4.77	3.11	2.87	3.05	3.24	2.95	3.56	3.92	4.07	3.31	2.51	2.41	2.44	0.74											
	Actual																							0.79	0.00	8.82																									
	Plan						-	-	-	-	-	-	-		0.48	2.59	2.32	2.42	1.67	3.14	3.36	3.52	3.57	2.24	1.71	6.78	6.18	7.60	4.08	2.79	2.80	4.42	4.01	5.35	6.48	7.76	4.75	2.70	2.59	2.92	1.77											
	Actual									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																									
	Plan						-	-	-	1.15	2.69	2.69	2.38	3.28	4.49	3.91	2.10	1.42	2.73	3.15	4.21	9.46	8.95	7.51	4.94	Delay	2.73	2.42	2.92	3.23	2.39	2.20	2.28	2.09	1.43	2.28	2.38	2.28	2.09	-											
	Actual									-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.36	0.00	15.12																									
	Plan						0.39	0.56	0.87	1.06	4.07	5.02	14.07	14.12	11.89	10.90	13.71	11.05	6.27	3.89	2.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual									0.002	0.00	0.52	1.66	0.42	1.42	1.25	2.56	4.51	1.98	2.89	5.44	4.66	1.89	16.43	8.76	7.51	9.00																									
	Plan						0.68	0.98	0.98	0.19	5.36	7.62	16.48	15.70	14.79	15.94	8.25	6.70	5.26	1.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual									0.004	-	0.90	2.88	0.73	2.47	2.18	4.45	7.85	3.44	5.02	7.49	4.51	0.08	16.68	10.86	10.65	7.17																									
	Plan						-	-	0.72	2.22	2.31	1.50	10.82	11.98	7.96	4.09	21.11	16.94	7.64	7.47	5.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Actual									-	-	-	-	-	-	-	-	-	-	2.67	4.86	4.36	16.10	5.93	3.25	11.47																									
	Total (Baht, Bill No. 1, 2, 3, 5 excl. VAT)																																																

% Work Progress	**Plan**	0.00	0.01	0.34	0.65	0.78	1.36	2.23	2.80	3.21	3.80	3.89	3.15	4.60	4.46	5.34	5.75	5.16	4.43	3.70	3.39	3.57	3.43	2.79	2.65	3.04	2.75	3.01	2.29	2.37	2.19	1.99	1.98	1.87	1.48	1.67	1.83	1.28	0.35	0.19	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
		71.49	3.04	74.52	-	0.00	0.01	0.35	1.00	1.77	3.13	5.36	8.16	11.37	15.18	19.07	22.22	26.82	31.28	36.62	42.37	47.53	51.96	55.65	59.05	62.62	66.05	68.83	71.49	74.52	77.27	80.29	82.58	84.94	87.13	89.13	91.11	92.98	94.46	96.13	97.95	99.23	99.58	99.77	99.83	99.84	99.86	99.88	99.90	99.92	99.94	99.96	99.98	100.00	100.00
	Actual	-	-	0.002	0.02	0.07	0.12	0.28	0.27	0.29	0.48	0.65	1.15	0.93	1.22	1.86	1.74	1.55	3.04	2.72	2.26	2.45	3.91	2.28	2.47	2.65																									
		29.77	2.65	32.41	-	-	-	0.002	0.02	0.10	0.22	0.49	0.77	1.06	1.54	2.19	3.33	4.27	5.48	7.35	9.08	10.63	13.67	16.39	18.65	21.10	25.01	27.29	29.77	32.41																									
Work Value (M Baht)	**Plan**	0	2	70	134	160	279	459	578	663	784	803	649	949	919	1,101	1,186	1,063	913	762	699	736	707	575	547	626	567	621	472	488	451	411	408	386	306	343	377	263	72	39	12	4	4	4	4	4	4	4	4	1
		0	2	72	206	365	645	1,104	1,682	2,344	3,128	3,931	4,579	5,528	6,447	7,548	8,734	9,796	10,709	11,471	12,170	12,906	13,612	14,187	14,734	15,360	15,926	16,548	17,020	17,508	17,959	18,369	18,777	19,163	19,469	19,812	20,189	20,452	20,524	20,563	20,574	20,578	20,582	20,586	20,590	20,594	20,598	20,602	20,606	20,610	20,611
	Actual	-	-	0.33	5	15	24	57	56	60	99	134	236	192	251	384	358	319	627	561	466	504	806	471	510	546																									
		-	-	0.33	5	20	44	102	158	218	317	451	687	879	1,130	1,514	1,872	2,191	2,818	3,379	3,844	4,348	5,154	5,625	6,135	6,681																									
Cumulative Progress Difference in % against Planing		0.00	-0.01	-0.35	-0.97	-1.67	-2.91	-4.86	-7.39	-10.32	-13.64	-16.88	-18.89	-22.55	-25.80	-29.27	-33.29	-36.90	-38.29	-39.26	-40.40	-41.52	-41.04	-41.54	-41.72	-42.11																									
Cumulative Progress Difference in (MB) % against Planing		0	-2	-71	-201	-345	-600	-1,002	-1,524	-2,126	-2,811	-3,480	-3,892	-4,649	-5,316	-6,034	-6,862	-7,606	-7,891	-8,092	-8,326	-8,557	-8,458	-8,562	-8,599	-8,679