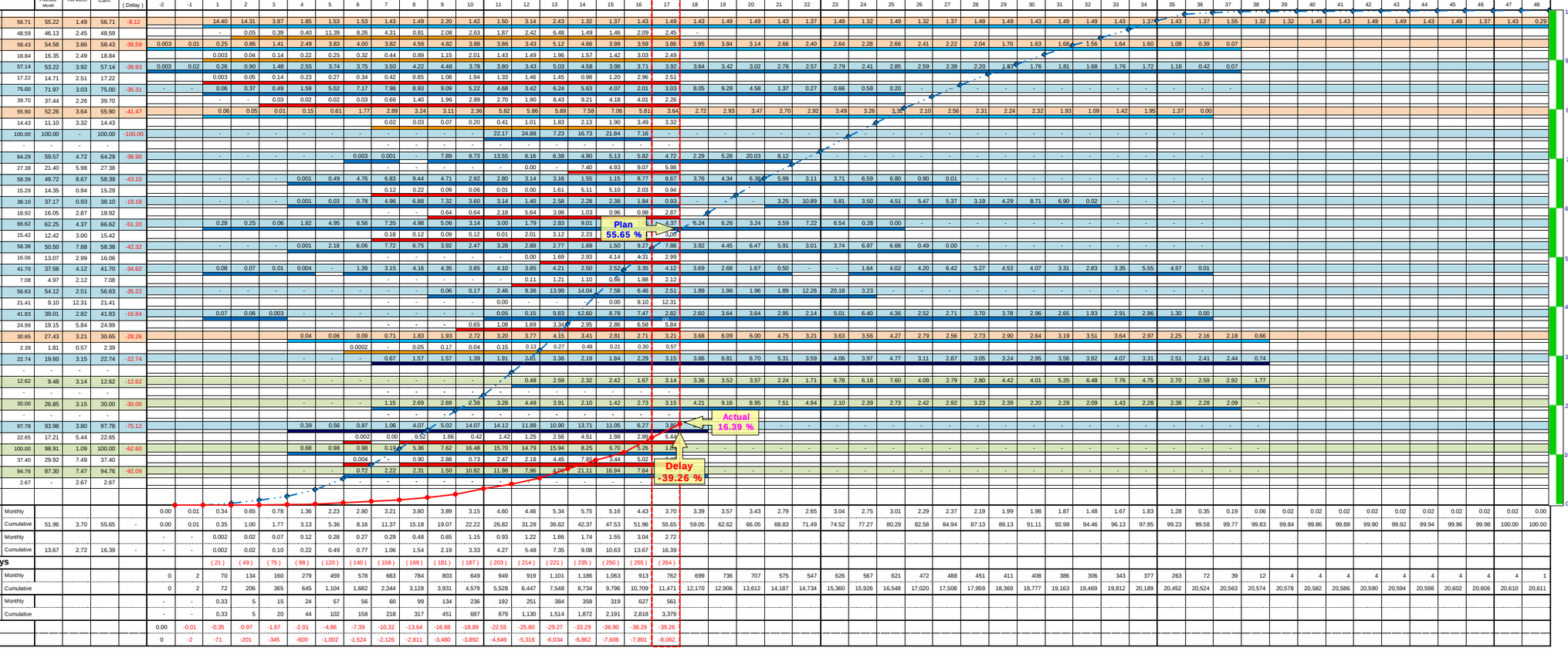
S-Curve Showing Planned and Actual Work Progress

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	56.71	55.22	1.49	56.71	-8.12
				Actual	48.59	46.13	2.45	48.59	
2	**Bill No. 2 : Railway**	10,514,931,561	51.02%	Plan	58.43	54.58	3.86	58.43	-39.59
				Actual	18.84	16.35	2.49	18.84	
	2.1 Elevated Railway	9,755,027,899	47.33%	Plan	57.14	53.22	3.92	57.14	-39.93
				Actual	17.22	14.71	2.51	17.22	
	2.2 At Grade and Transition Railway	759,903,662	3.69%	Plan	75.00	71.97	3.03	75.00	-35.31
				Actual	39.70	37.44	2.26	39.70	
3	**Bill No. 3 : Stations**	8,558,445,112	41.52%	Plan	55.90	52.26	3.64	55.90	-41.47
				Actual	14.43	11.10	3.32	14.43	
	3.1 Procurement (MES & Architectural Works)	1,199,473,182	5.82%	Plan	100.00	100.00	-	100.00	-100.00
				Actual	-	-	-	-	
	3.2 Wat Samian Nari Station (Future Station)	405,055,567	1.97%	Plan	64.29	59.57	4.72	64.29	-36.90
				Actual	27.38	21.40	5.98	27.38	
	3.3 Bang Khen Station	677,186,704	3.29%	Plan	58.39	49.72	8.67	58.39	-43.10
				Actual	15.29	14.35	0.94	15.29	
	3.4 Thung Song Hong Station	708,215,650	3.44%	Plan	38.10	37.17	0.93	38.10	-19.18
				Actual	18.92	16.05	2.87	18.92	
	3.5 Lak Si Station	679,058,167	3.29%	Plan	66.62	62.25	4.37	66.62	-51.20
				Actual	15.42	12.42	3.00	15.42	
	3.6 Karn Kheha Station	671,478,824	3.26%	Plan	58.38	50.50	7.88	58.38	-42.32
				Actual	16.06	13.07	2.99	16.06	
	3.7 Don Muang Station	2,052,832,448	9.96%	Plan	41.70	37.58	4.12	41.70	-34.62
				Actual	7.08	4.97	2.12	7.08	
	3.8 Lak Hok Station (Future Station)	357,896,774	1.74%	Plan	56.63	54.12	2.51	56.63	-35.22
				Actual	21.41	9.10	12.31	21.41	
	3.9 Rangsit Station	1,807,247,796	8.77%	Plan	41.83	39.01	2.82	41.83	-16.84
				Actual	24.99	19.15	5.84	24.99	
5	**Bill No. 5 : Road Works**	1,264,542,043	6.14%	Plan	30.65	27.43	3.21	30.65	-28.26
				Actual	2.39	1.81	0.57	2.39	
	5.1 Local Road	1,131,293,721	5.49%	Plan	22.74	19.60	3.15	22.74	-22.74
				Actual	-	-	-	-	
	- Local Road	472,502,359	2.29%	Plan	12.62	9.48	3.14	12.62	-12.62
				Actual	-	-	-	-	
	- Drainage & Utilities	658,791,362	3.20%	Plan	30.00	26.85	3.15	30.00	-30.00
				Actual	-	-	-	-	
	5.2 Road Flyover	133,248,322	0.65%	Plan	97.78	93.98	3.80	97.78	-75.12
				Actual	22.65	17.21	5.44	22.65	
	- Road Flyover KM. 24+910	76,656,107	0.37%	Plan	100.00	98.91	1.09	100.00	-62.60
				Actual	37.40	29.92	7.49	37.40	
	- Road Flyover KM. 27+650	56,592,215	0.27%	Plan	94.76	87.30	7.47	94.76	-92.09
				Actual	2.67	-	2.67	2.67	
	Total (Baht, Bill No. 1, 2, 3, 5 excl. VAT)	**20,610,547,836**	**100.00%**						

			2013												2014												2015												2016												2017	
			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
			-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	**Bill No. 1 : General Requirements**	272,629,120			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
					-	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	-																																
2	**Bill No. 2 : Railway**	10,514,931,561	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											
					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																																
	2.1 Elevated Railway	9,755,027,899	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											
					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																																
	2.2 At Grade and Transition Railway	759,903,662	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-											
					-	-	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	**Bill No. 3 : Stations**	8,558,445,112			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	3.32	2.10	2.56	2.31	2.24	2.32	1.93	1.09	1.42	1.95	1.37	0.00												
											0.02	0.03	0.07	0.20	0.41	1.01	1.83	2.13	1.90	3.49	3.32																																
	3.1 Procurement (MES & Architectural Works)	1,199,473,182	-	-	-	-	-	-	-	-	-	-	-	-	22.17	24.88	7.23	16.73	21.84	7.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
											-	-	-	-	-	-	-	-	-	-	-																															
	3.2 Wat Samian Nari Station (Future Station)	405,055,567	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
											-	-	-	-	-	0.00	-	7.40	4.93	9.07	5.98																																
	3.3 Bang Khen Station	677,186,704	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-												
										0.12	0.22	0.09	0.06	0.01	0.00	1.61	5.11	5.10	2.03	0.94																																
	3.4 Thung Song Hong Station	708,215,650	-	-	-	-	0.001	0.03	0.78	4.96	6.88	7.32	3.60	3.14	1.40	2.58	2.28	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	-	-	-	-												
										-	-	0.64	0.64	2.18	5.64	3.98	1.03	0.96	0.98	2.87																																
	3.5 Lak Si Station	679,058,167			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	11.17	4.37	6.24	6.26	3.24	3.59	7.22	6.54	0.28	0.00	-	-	-	-	-	-	-	-	-	-	-	-												
										0.18	0.12	0.09	0.12	0.01	2.01	3.12	2.23	3.05	3.09																																
	3.6 Karn Kheha Station	671,478,824	-	-	-	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	-	-	-	-	-	-	-	-	-	-												
										-	-	-	-	-	0.00	1.69	2.93	4.14	4.31	2.99																																
	3.7 Don Muang Station	2,052,832,448			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												
										0.0002	-	0.05	0.17	0.04	0.15	0.13	0.27	0.48	0.21	0.30	0.57																														
	3.8 Lak Hok Station (Future Station)	357,896,774			-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-												
										-	-	-	-	-	0.11	1.21	1.10	0.66	1.88	2.12																																
	3.9 Rangsit Station	1,807,247,796			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												
										-	-	-	0.65	1.08	1.69	3.34	2.95	2.86	6.58	5.84																																
5	**Bill No. 5 : Road Works**	1,264,542,043						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	3.56	4.27	2.79	2.56	2.73	2.90	2.64	3.19	3.51	3.64	2.97	2.25	2.16	2.18	0.66												
										0.0002	-	0.05	0.17	0.04	0.15	0.13	0.27	0.48	0.21	0.30	0.57																														
	5.1 Local Road	1,131,293,721						-	-	-	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												
	- Local Road	472,502,359						-	-	-	-	-	-	-	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												
										-	-	-	-	-	-	-	-	-	-	-																																
	- Drainage & Utilities	658,791,362						-	-	-	1.15	2.69	2.69	2.38	3.28	4.49	3.91	2.10	1.42	2.73	3.15	4.21	9.16	8.95	7.51	4.94	2.10	2.39	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	-												
										-	-	-	-	-	-	-	-	-	-	-																																
	5.2 Road Flyover	133,248,322						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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
										0.002	0.00	0.52	1.66	0.42	1.42	1.25	2.56	4.51	1.98	2.89	5.44																																
	- Road Flyover KM. 24+910	76,656,107						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	1.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
										0.004	-	0.90	2.88	0.73	2.47	2.18	4.45	7.85	3.44	5.02	1.84																																
	- Road Flyover KM. 27+650	56,592,215						-	-	0.72	2.22	2.31	1.50	10.82	11.98	7.96	4.06	21.11	16.94	7.64	1.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
										-	-	-	-	-	-	-	-	-	-	-																																
	Total (Baht, Bill No. 1, 2, 3, 5 excl. VAT)	**20,610,547,836**																																																		

% Work Progress			2013												2014												2015												2016												2017	
			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
			-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
	Plan	Monthly																																																		
		Cumulative	51.96	3.70	55.65	-	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	Monthly																																																		
		Cumulative	13.67	2.72	16.39	-	-	-	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																													
	Ahead / (Delay), days														(21)	(49)	(75)	(98)	(120)	(140)	(158)	(169)	(181)	(187)	(203)	(214)	(221)	(235)	(250)	(255)	(264)																														
Work Value (M Baht)	**Plan**	Monthly	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
		Cumulative	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	Monthly	-	-	0.33	5	15	24	57	56	60	99	134	236	192	251	384	358	319	627	561																																	
		Cumulative	-	-	0.33	5	20	44	102	158	218	317	451	687	879	1,130	1,514	1,872	2,191	2,818	3,379																																	
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																																	
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