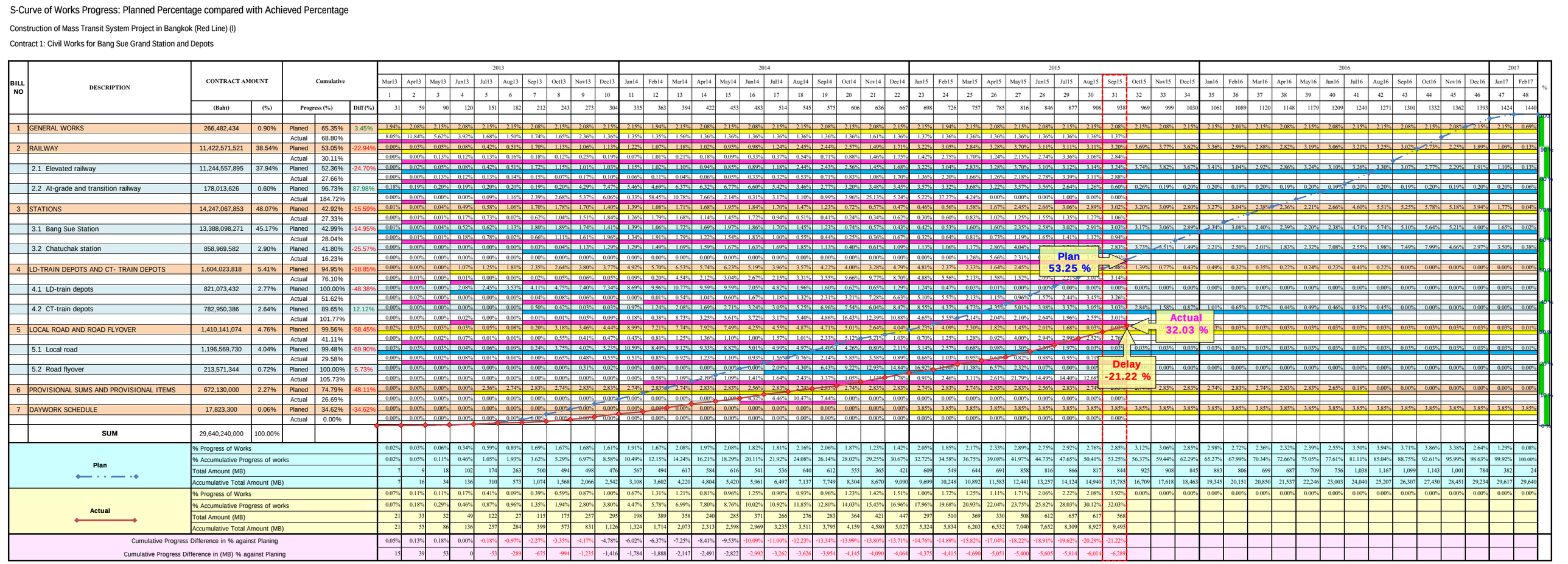
S-Curve of Works Progress: Planned Percentage compared with Achieved Percentage

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

Contract 1: Civil Works for Bang Sue Grand Station and Depots

BILL NO	DESCRIPTION	CONTRACT AMOUNT		Cumulative		
		(Baht)	(%)		Progress (%)	Diff (%)
1	GENERAL WORKS	266,482,434	0.90%	Planed	65.35%	3.45%
				Actual	68.80%	
2	RAILWAY	11,422,571,521	38.54%	Planed	53.05%	-22.94%
				Actual	30.11%	
	2.1 Elevated railway	11,244,557,895	37.94%	Planed	52.36%	-24.70%
				Actual	27.66%	
	2.2 At-grade and transition railway	178,013,626	0.60%	Planed	96.73%	87.98%
				Actual	184.72%	
3	STATIONS	14,247,067,853	48.07%	Planed	42.92%	-15.59%
				Actual	27.33%	
	3.1 Bang Sue Station	13,388,098,271	45.17%	Planed	42.99%	-14.95%
				Actual	28.04%	
	3.2 Chatuchak station	858,969,582	2.90%	Planed	41.80%	-25.57%
				Actual	16.23%	
4	LD-TRAIN DEPOTS AND CT- TRAIN DEPOTS	1,604,023,818	5.41%	Planed	94.95%	-18.85%
				Actual	76.10%	
	4.1 LD-train depots	821,073,432	2.77%	Planed	100.00%	-48.38%
				Actual	51.62%	
	4.2 CT-train depots	782,950,386	2.64%	Planed	89.65%	12.12%
				Actual	101.77%	
5	LOCAL ROAD AND ROAD FLYOVER	1,410,141,074	4.76%	Planed	99.56%	-58.45%
				Actual	41.11%	
	5.1 Local road	1,196,569,730	4.04%	Planed	99.48%	-69.90%
				Actual	29.58%	
	5.2 Road flyover	213,571,344	0.72%	Planed	100.00%	5.73%
				Actual	105.73%	
6	PROVISIONAL SUMS AND PROVISIONAL ITEMS	672,130,000	2.27%	Planed	74.79%	-48.11%
				Actual	26.69%	
7	DAYWORK SCHEDULE	17,823,300	0.06%	Planed	34.62%	-34.62%
				Actual	0.00%	
	SUM	29,640,240,000	100.00%			

		2013										2014												2015												2016												2017		%
		Mar13	Apr13	May13	Jun13	Jul13	Aug13	Sep13	Oct13	Nov13	Dec13	Jan14	Feb14	Mar14	Apr14	May14	Jun14	Jul14	Aug14	Sep14	Oct14	Nov14	Dec14	Jan15	Feb15	Mar15	Apr15	May15	Jun15	Jul15	Aug15	Sep15	Oct15	Nov15	Dec15	Jan16	Feb16	Mar16	Apr16	May16	Jun16	Jul16	Aug16	Sep16	Oct16	Nov16	Dec16	Jan17	Feb17	
		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	
		31	59	90	120	151	182	212	243	273	304	335	363	394	422	453	483	514	545	575	606	636	667	698	726	757	785	816	846	877	908	938	969	999	1030	1061	1089	1120	1148	1179	1209	1240	1271	1301	1332	1362	1393	1424	1440	
1		1.94%	2.08%	2.15%	2.08%	2.15%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	1.94%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	1.94%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	2.01%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	2.08%	2.15%	2.08%	2.15%	2.15%	0.69%	
		8.05%	11.84%	5.62%	3.92%	1.68%	1.50%	1.74%	1.65%	2.36%	1.36%	1.35%	1.35%	1.56%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.61%	1.36%	1.37%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.37%																		
2		0.00%	0.03%	0.05%	0.08%	0.42%	0.51%	1.70%	1.13%	1.06%	1.13%	1.22%	1.07%	1.18%	1.02%	0.95%	0.98%	1.24%	2.45%	2.44%	2.57%	1.49%	1.71%	3.22%	3.05%	2.84%	3.28%	3.70%	3.11%	3.11%	3.11%	3.20%	3.69%	3.77%	3.62%	3.36%	2.99%	2.88%	2.82%	3.19%	3.06%	3.21%	3.25%	3.02%	2.73%	2.25%	1.89%	1.09%	0.13%	
		0.00%	0.00%	0.13%	0.12%	0.13%	0.16%	0.18%	0.12%	0.25%	0.19%	0.07%	1.01%	0.21%	0.18%	0.09%	0.33%	0.37%	0.54%	0.71%	0.88%	1.46%	1.75%	1.42%	2.75%	1.70%	1.24%	2.15%	2.74%	3.36%	3.06%	2.84%																		
	2.1 Elevated railway	0.00%	0.02%	0.05%	0.08%	0.42%	0.51%	1.72%	1.15%	1.01%	1.03%	1.15%	1.02%	1.10%	0.94%	0.85%	0.89%	1.18%	2.44%	2.43%	2.56%	1.45%	1.68%	3.22%	3.04%	2.83%	3.28%	3.70%	3.10%	3.12%	3.14%	3.24%	3.74%	3.82%	3.67%	3.41%	3.04%	2.92%	2.86%	3.24%	3.10%	3.26%	3.30%	3.07%	2.77%	2.29%	1.91%	1.10%	0.13%	
		0.00%	0.00%	0.13%	0.12%	0.13%	0.14%	0.15%	0.07%	0.17%	0.10%	0.06%	0.11%	0.04%	0.06%	0.05%	0.33%	0.32%	0.53%	0.71%	0.83%	1.08%	1.70%	1.36%	2.20%	1.66%	1.26%	2.18%	2.78%	3.39%	3.11%	2.88%																		
	2.2 At-grade and transition railway	0.18%	0.19%	0.20%	0.19%	0.20%	0.20%	0.19%	0.20%	4.29%	7.47%	5.46%	4.69%	6.37%	6.32%	6.77%	6.60%	5.42%	3.46%	2.77%	3.20%	3.48%	3.45%	3.57%	3.32%	3.68%	3.22%	3.57%	3.56%	2.64%	1.26%	0.60%	0.26%	0.19%	0.20%	0.20%	0.19%	0.20%	0.19%	0.20%	0.19%	0.20%	0.20%	0.19%	0.20%	0.19%	0.20%	0.20%	0.06%	
		0.00%	0.00%	0.00%	0.00%	0.09%	1.16%	2.39%	2.68%	5.37%	6.06%	0.33%	58.45%	10.78%	7.66%	2.14%	0.31%	3.17%	1.10%	0.99%	3.96%	25.13%	5.24%	5.22%	37.27%	4.24%	0.00%	0.00%	0.00%	1.00%	0.00%	0.00%																		
3		0.01%	0.00%	0.04%	0.49%	0.58%	1.06%	1.70%	1.78%	1.70%	1.40%	1.39%	1.08%	1.71%	1.68%	1.95%	1.84%	1.70%	1.47%	1.23%	0.72%	0.57%	0.47%	0.46%	0.56%	1.58%	1.67%	2.45%	2.66%	3.06%	2.89%	3.02%	3.20%	3.09%	2.80%	3.27%	3.04%	2.38%	2.36%	2.21%	2.66%	4.60%	5.51%	5.25%	5.78%	5.18%	3.94%	1.77%	0.04%	
		0.00%	0.01%	0.01%	0.17%	0.73%	0.02%	0.62%	1.04%	1.51%	1.84%	1.26%	1.79%	1.68%	1.14%	1.45%	1.72%	0.94%	0.51%	0.41%	0.24%	0.34%	0.62%	0.30%	0.60%	0.83%	1.02%	1.25%	1.55%	1.35%	1.27%	1.06%																		
	3.1 Bang Sue Station	0.01%	0.00%	0.04%	0.52%	0.62%	1.13%	1.80%	1.89%	1.74%	1.41%	1.39%	1.06%	1.72%	1.69%	1.97%	1.86%	1.70%	1.45%	1.23%	0.74%	0.57%	0.43%	0.42%	0.53%	1.60%	1.60%	2.35%	2.58%	3.02%	2.91%	3.03%	3.17%	3.06%	2.89%	3.34%	3.08%	2.40%	2.39%	2.20%	2.38%	4.74%	5.74%	5.10%	5.64%	5.21%	4.00%	1.65%	0.02%	
		0.00%	0.01%	0.01%	0.18%	0.78%	0.02%	0.66%	1.11%	1.61%	1.96%	1.34%	1.91%	1.79%	1.22%	1.54%	1.83%	1.00%	0.55%	0.44%	0.25%	0.36%	0.67%	0.32%	0.64%	0.81%	0.73%	1.19%	1.65%	1.41%	1.25%	0.94%																		
	3.2 Chatuchak station	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.04%	1.13%	1.29%	1.29%	1.49%	1.69%	1.59%	1.67%	1.63%	1.69%	1.85%	1.13%	0.40%	0.61%	1.09%	1.13%	1.06%	1.17%	2.86%	4.04%	3.[illegible]	[illegible]	[illegible]	2.83%	3.73%	3.51%	1.49%	2.21%	2.50%	2.01%	1.83%	2.32%	7.08%	2.55%	1.98%	7.49%	7.99%	4.66%	2.97%	3.50%	0.38%	
		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.26%	5.66%	2.31%	0.[illegible]	[illegible]	0.[illegible]																		
4		0.00%	0.00%	0.00%	1.07%	1.25%	1.81%	2.35%	2.64%	3.80%	3.77%	4.92%	5.70%	6.53%	5.74%	6.23%	5.19%	3.96%	3.57%	4.22%	4.00%	3.28%	4.79%	4.81%	2.37%	2.33%	1.64%	2.45%	1.[illegible]	[illegible]	[illegible]	1.48%	1.39%	0.77%	0.43%	0.49%	0.32%	0.35%	0.22%	0.24%	0.23%	0.41%	0.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		0.00%	0.01%	0.00%	0.01%	0.00%	0.00%	0.02%	0.05%	0.06%	0.05%	0.09%	0.20%	4.54%	2.12%	3.04%	2.67%	2.15%	3.31%	3.55%	9.66%	9.77%	8.70%	4.88%	5.56%	2.13%	1.58%	1.52%	2.02%	2.21%	3.01%	3.14%																		
	4.1 LD-train depots	0.00%	0.00%	0.00%	2.08%	2.45%	3.53%	4.11%	4.75%	7.40%	7.34%	8.69%	9.96%	10.77%	9.59%	9.59%	7.05%	4.82%	1.96%	1.60%	0.62%	0.65%	1.29%	1.24%	0.47%	0.03%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.04%	0.08%	0.06%	0.00%	0.00%	0.01%	0.54%	1.04%	0.68%	1.67%	1.18%	1.32%	2.31%	3.21%	7.28%	6.63%	5.10%	5.57%	2.13%	1.15%	0.96%	1.57%	2.44%	3.45%	3.26%																		
	4.2 CT-train depots	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%	0.42%	0.03%	0.03%	0.97%	1.24%	2.08%	1.69%	2.71%	3.24%	3.05%	5.25%	6.96%	7.54%	6.04%	8.47%	8.55%	4.37%	4.73%	3.35%	5.01%	3.98%	3.37%	3.05%	3.03%	2.84%	1.58%	0.87%	1.01%	0.65%	0.72%	0.44%	0.49%	0.46%	0.83%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.01%	0.01%	0.05%	0.09%	0.18%	0.38%	8.73%	3.25%	5.61%	3.72%	3.17%	5.40%	4.86%	16.43%	12.39%	10.88%	4.65%	5.55%	2.14%	2.04%	2.10%	2.64%	1.96%	2.55%	3.01%																		
5		0.02%	0.03%	0.03%	0.03%	0.05%	0.08%	0.20%	3.18%	3.46%	4.44%	8.99%	7.21%	7.74%	7.92%	7.49%	4.25%	4.55%	4.87%	4.71%	5.01%	2.64%	4.04%	4.23%	4.09%	2.30%	1.82%	1.45%	2.01%	1.68%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.01%	
		0.00%	0.00%	0.02%	0.07%	0.01%	0.01%	0.00%	0.55%	0.41%	0.47%	0.43%	0.81%	1.25%	1.36%	1.10%	1.00%	1.57%	1.01%	2.33%	5.12%	3.71%	1.03%	0.70%	1.25%	1.28%	0.92%	4.00%	2.94%	2.99%	2.52%	2.76%																		
	5.1 Local road	0.03%	0.03%	0.03%	0.04%	0.06%	0.09%	0.24%	3.75%	4.02%	5.23%	10.59%	8.49%	9.12%	9.33%	8.82%	5.01%	4.99%	4.97%	4.40%	4.26%	0.80%	2.11%	3.14%	2.57%	0.68%	0.98%	1.30%	2.26%	1.97%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.01%	
		0.00%	0.00%	0.02%	0.08%	0.01%	0.01%	0.00%	0.65%	0.48%	0.55%	0.51%	0.85%	0.92%	1.23%	1.10%	0.93%	1.56%	0.76%	2.14%	5.85%	3.58%	0.89%	0.66%	1.03%	0.95%	0.[illegible]	0.82%	0.88%	0.95%	0.71%																			
	5.2 Road flyover	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.31%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.09%	4.30%	6.43%	9.22%	12.93%	14.84%	16.92%	12.00%	11.38%	6.57%	2.32%	0.07%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.58%	3.09%	2.10%	1.09%	1.41%	1.64%	2.43%	3.37%	1.05%	1.12%	1.78%	0.91%	2.46%	3.11%	2.61%	21.79%	14.49%	14.40%	12.68%																			
6		0.00%	0.00%	0.00%	0.00%	2.56%	2.74%	2.83%	2.74%	2.83%	2.83%	2.74%	2.83%	2.74%	2.83%	2.83%	2.56%	2.83%	2.74%	2.83%	2.74%	2.83%	2.83%	2.74%	2.83%	2.74%	2.83%	2.83%	2.56%	2.83%	2.74%	[illegible]	[illegible]	2.83%	2.83%	2.74%	2.83%	2.74%	2.83%	2.83%	2.65%	0.18%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.25%	4.46%	10.47%	7.44%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%																			
7		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	3.85%	
		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%																		
	Plan	% Progress of Works										0.02%	0.03%	0.06%	0.34%	0.59%	0.89%	1.69%	1.67%	1.68%	1.61%	1.91%	1.67%	2.08%	1.97%	2.08%	1.82%	1.81%	2.16%	2.06%	1.87%	1.23%	1.42%	2.05%	1.85%	2.17%	2.33%	2.89%	2.75%	2.92%	2.76%	2.85%	3.12%	3.06%	2.85%	2.98%	2.72%	2.36%	2.32%	2.39%	2.55%	3.50%	3.94%	3.71%	3.86%	3.38%	2.64%	1.29%	0.08%	
		% Accumulative Progress of works										0.02%	0.05%	0.11%	0.46%	1.05%	1.93%	3.62%	5.29%	6.97%	8.58%	10.49%	12.15%	14.24%	16.21%	18.29%	20.11%	21.92%	24.08%	26.14%	28.02%	29.25%	30.67%	32.72%	34.58%	36.75%	39.08%	41.97%	44.73%	47.65%	50.41%	53.25%	56.37%	59.44%	62.29%	65.27%	67.99%	70.34%	72.66%	75.05%	77.61%	81.11%	85.04%	88.75%	92.61%	95.99%	98.63%	99.92%	100.00%	
		Total Amount (MB)										7	9	18	102	174	263	500	494	498	476	567	494	617	584	616	541	536	640	612	555	365	421	609	549	644	691	858	816	866	817	844	925	908	845	883	806	699	687	709	756	1,038	1,167	1,099	1,143	1,001	784	382	24	
		Accumulative Total Amount (MB)										7	16	34	136	310	573	1,074	1,568	2,066	2,542	3,108	3,602	4,220	4,804	5,420	5,961	6,497	7,137	7,749	8,304	8,670	9,090	9,699	10,248	10,892	11,583	12,441	13,257	14,124	14,940	15,785	16,709	17,618	18,463	19,345	20,151	20,850	21,537	22,246	23,003	24,040	25,207	26,307	27,450	28,451	29,234	29,617	29,640	
	Actual	% Progress of Works										0.07%	0.11%	0.11%	0.17%	0.41%	0.09%	0.39%	0.59%	0.87%	1.00%	0.67%	1.31%	1.21%	0.81%	0.96%	1.25%	0.90%	0.93%	0.96%	1.23%	1.42%	1.51%	1.00%	1.72%	1.25%	1.11%	1.71%	2.06%	2.22%	2.08%	1.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		% Accumulative Progress of works										0.07%	0.18%	0.29%	0.46%	0.87%	0.96%	1.35%	1.94%	2.80%	3.80%	4.47%	5.78%	6.99%	7.80%	8.76%	10.02%	10.92%	11.85%	12.80%	14.03%	15.45%	16.96%	17.96%	19.68%	20.93%	22.04%	23.75%	25.82%	28.03%	30.12%	32.03%																	
		Total Amount (MB)										21	33	32	49	122	27	115	175	257	295	198	389	358	240	285	371	266	276	283	364	421	447	297	510	369	330	508	612	657	617	568																	
		Accumulative Total Amount (MB)										21	55	86	136	257	284	399	573	831	1,126	1,324	1,714	2,073	2,313	2,598	2,969	3,235	3,511	3,795	4,159	4,580	5,027	5,324	5,834	6,203	6,532	7,040	7,652	8,309	8,927	9,495																	
	Cumulative Progress Difference in % against Planing											0.05%	0.13%	0.18%	0.00%	-0.18%	-0.97%	-2.27%	-3.35%	-4.17%	-4.78%	-6.02%	-6.37%	-7.25%	-8.41%	-9.53%	-10.09%	-11.00%	-12.23%	-13.34%	-13.99%	-13.80%	-13.71%	-14.76%	-14.89%	-15.82%	-17.04%	-18.22%	-18.91%	-19.62%	-20.29%	-21.22%																	
	Cumulative Progress Difference in (MB) % against Planing											15	39	53	0	-53	-289	-675	-994	-1,235	-1,416	-1,784	-1,888	-2,147	-2,491	-2,822	-2,992	-3,262	-3,626	-3,954	-4,145	-4,090	-4,064	-4,375	-4,415	-4,690	-5,051	-5,400	-5,605	-5,814	-6,014	-6,289