

Task ID	Activity	Pred.	Duration (months)	Budget (K\$)	Progress	Actual Cost (AC)	Earned Value (EV)	Cost Variance (CV)	Planned Value (PV)	Schedule Variance (SV)
1	Preparation	-	2	600	100 %	600	600	0	600	0
2	Design	1	3	1200	100%	1400	1200	-200	1200	0
3	Implementation	2	2	400	50 %	200	200	-100	400	-200
4	Testing	3	3	1200	33.3 %	500	399.6	-0.4	800	-400.4
5	Deployment	4	3	300	0 %	0	0	0	0	0
6	Total			3700	64.85%	2399.6	2700	-300.4	300	-600.4

Q 1 :by how much is it over / under budget ?

Answer : around 300K

Q2 : by how many days is it ahead / behind the schedule ?

Answer : 1 month

$$\text{CPI} = \text{EV} / \text{AC} = 88.87\%$$

$$\text{SPI} = \text{EV} / \text{PV} = 79.99\%$$

$$\text{EAC} = \text{total} / \text{CPI} = 4163.193866$$

$$\text{EAC} = \text{AC} + \text{total} - \text{EV} = 4000.4$$