

**LEARNING ACTIVITY LESSON 8:  
EARNED VALUE MANAGEMENT**

You have been assigned to undertake the construction of a single storey house and has come up with the earned value table at a timenow as shown below.

No	Activity	BAC (RM)	BCWS (RM)	PC (%)	BCWP (RM)	ACWP (RM)	SV	CV (RM)	EAC (RM)
1	Construct Foundation	15,000	15,000	100		14,000			
2	Construct Ground Beams	10,000	8,000	100		7,500			
3	Erect Columns	7,000	4,900	80		5,500			
4	Construct Roof Beams	6,000	2,400	50		3,000			
5	Construct Floor Slab	8,000	2,000	30		2,500			
6	Construct Brick walls	6,000	1,200	25		1,700			
7	Put up roofings	4,000	-	-		-			
8	Electrical Wirings	6,000	-	-		-			
9	Plastering	2,000	-	-		-			
10	Clearing of Site	1,000	-	-		-			

- a) Based on the information given, calculate the following for Activity 1 to Activity 6 :
  - i) Budgeted Cost for Work Performed (BCWP)
  - ii) Estimate at Completion (EAC)
  - iii) Schedule Variances (SV)
  - iv) Cost Variances (CV)
- b) Compute the Cost Performance Index (CPI) for the whole project.
- c) Compute the Schedule Performance Index (SPI) for the whole project. What is the estimated time to complete the project if it was initially intended to complete in 100 days?
- d) Analyse your results and provide conclusions for the performance of the overall projects. Give your recommendations.