

SOFTWARE PROJECT ESTIMATION

Effort, Time & Person Estimation:

Effort

= PM

= Coefficient * (SLOC/ 1,000) ^ P

= 2.4 * (20,000/ 1,000) ^ 1.05

= 55.77

Development Time

= DM

= 2.50 * (PM) ^ 0.38

= 2.50 * (55.77) ^ 0.38

= 11.52

Required number of people

= ST

= PM/ DM

= 55.77/11.52

= 4.84

= 5

So, we need approximately 12 weeks(3 month) and 5 software engineer for our project .

Budget Estimation:

Required time for the project	= 12week x 6 days =72days
Working time	= 10 hours/day
Total requirement time	= 10 hours x 72 days = 720 hours
Cost of software engineer	=1800 TK/hour
Total software engineer salary	= (1800 x 720) TK = 12,96,000 TK
Each software engineer total salary	= (12,96,000/5) TK = 2,59,200 TK
Each software engineer monthly salary	= (2,59,200/3) Tk = 86,400 Tk

Expenditure sector	Explanation	Amount
Requirement Analysis cost		50,000 TK
Total Human Resource	(864000TK x 3month x 5 person)	12,96,000 TK
Room rent	(25000 TK x 3 month)	75,000 TK
Required Hardware & Training		1,50,000 TK
Maintenance (for 6 months)	(6month x 10hour/month x 2500 TK/hour)	1,50,000 TK
Others (including Electricity bill & gas bill & transportation)	(40,000 TK x 3 month)	1,20,000 TK
Total cost		= 18,41,000 TK
Profit Margin (20%)	(Total cost x 20%)	= 3,68,200 TK
Total Budget		= 22,09,200 TK