<u>Budgeting</u>

Constructive Cost Model (COCOMO)

Project Type: Organic

Coefficient Effort Factor>: 2.4

P=1.05
T=0.38
SLOC: 13000 lines

Person Months, PM = Coefficient *(SLOC/1000)^P
$\qquad$ =2.4* (13000/1000)^1.05
$\qquad$ = 35.469

Development Time, DM = 2.50 *(PM)^T
$\qquad$ = 2.50 * (35.469)^0.38
$\qquad$ = 9.7 months
$\qquad$ ≈ 10 months
$\qquad$ = 1608 working hours (8 hours working per day except Friday and Saturday)

Required people, ST = PM/DM
$\qquad$ = (35.469/10)
$\qquad$ = 3.54
$\qquad$ ≈ 4 people

BUDGETING:

Developer Salary in 10 months
Per Developer Salary Per Working Hours=450 TK
Total Developer Salary = 450*1608*4
$\qquad$ = 28,94,400 TK

Requirement analysis:

Time needed: 1 month (22 Working Days =176 Working Hour)

Requirement_analysis person hourly wage: 110 TK
Total Requirement Analysis Expense =110*176 = 19,360 TK

Transportation cost estimation = 5000 TK

Training & Hardware Expenses Estimation = 50,000 TK.

Rent Expenses:

Office space rent per month = 20,000 TK

Total in 10 months = (20,000*10) = 2,00,000 TK

Total utilities in 10 months = 20,000 TK

Maintenance (Till 6 Months after Delivery)

Expense per hour: 2000 TK

Total Estimated Time Needed for Maintenance = 90 hr

Total Estimated Maintenance Expense =90*1000 =90,000 TK

Total Estimated Expense:

28,94,400 + 19,360 + 5,000 + 50,000 + 2,00,000 + 20,000 + 90000

= 32,78,760

Profit:

Profit 20% of Total Estimated Cost = 20% of 32,78,760 TK = 6,55,752 TK

Project Budget = 32,78,760 + 6,55,752
              = 39,34,512