Software Engineering (J)

Final Term Lab Task 4 (Project Budget Estimation)

Team 4

Constructive Cost Model , CoCoMo , for E-Rental System :

Project Type   : Organic

Coefficient<Effort Factor> : 2.4 [P=1.05 , T=0.38]

SLOC   : 8000

Person Month , PM   : $(2.4*8^{1.05})$ = 21.304

Dev. Time , DM   : $(2.5*21.304^{0.38})$ = 7.994 = 8 months = 1408 working hour

Required People , ST   : PM/DM = 2.66 = 3 people

Budgeting :

Developers Salary in 8 months   : Considering 550 taka per hour per developer –

                                    550*1408 = **774400** taka

Requirements Analysis   : Time needed = 1 month (22 office days) = 176 working hour

                                   Req. Analysis person's hourly wage = 300 taka

                                   Total Req. Analysis expense = 300*176 = **52800** taka

Transportation Cost   : **12800 taka**

Training and Hardware Expense : **140000** taka

Rent Expense   : 16000*8 = **128000** taka

Total Utilities   : **40000** taka

Maintenance Cost (6 months after delivery) : Expense per hour = 1000 taka

Est. hrs needed for maintenance = 60 hrs

Total maintenance cost = 60*1000 = **60000** taka

Others Human Resource cost : Project Manager = 1*25000*8 = 200000 taka

Accountant = 1*20000*8 = 160000 taka

Technical Staff = 2*12000*8 = 192000 taka

Total HR cost = 200000+160000+192000

= **552000** taka

Total Estimated Expense : 774400+52800+12800+140000+128000+40000+60000+552000

= **1760000** taka

Profit : 20% of Total Estimated Expense =1760000*20% = **352000** taka

Final Project Budget : 1760000+352000 = **2112000** taka