

## Donation Management System

### Constructive Cost Model:

Project Type : Organic.

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

SLOC = 13000 Lines

Person Months, PM =  $(2.4 * 13^{1.05}) = 35.469$

Development Time, DM =  $(2.5 * 35.469^{0.38}) = 9.702 = 9 \text{ Months} = 176 * 9 = 1584 \text{ Working Hour}$

[1 Month = 22 Working Days = 176 Working Hour]

Required People, ST = PM/DM =  $3.94 = 4 \text{ people}$

Development Time For Per Person =  $1584 / 4 = 396 \text{ Hour}$

### Budgeting:

Developer Salary in 9 Months: Per Developer Salary Per Working Hour = 700 Taka

Total Developer Salary =  $700 * 1584 = 1,108,800 \text{ Taka}$

Developer Salary Per Person =  $1,108,800 / 4 = 277,200 \text{ Taka}$

Requirement Analysis: Time Needed: 1 month (22 working Days = 176 Working Hour)

Req Analysis Person's Hourly wage = 500 Taka

Total Req Analysis Expense =  $500 * 176 = 88,000 \text{ Taka}$

Transportation Cost Estimation: 9000 Taka

Training & Hardware Expenses Estimation: 100,000 Taka

Rent Expenses: Room Per Month = 10,000 Taka

Total in 9 Months = 90,000 Taka

Total Utilities in 9 Months: 20,000 Taka

Maintenance (Till 7 Months after Delivery):

Expense Per Hour = 1200 Taka

Total Estimated Time Needed For Maintenance = 80 Hour

Total Estimated Maintenance Expense =  $80 * 1200 = 96,000 \text{ Taka}$

**Total Estimated Expense:**  $1,108,800 + 88,000 + 9000 + 10,000 + 90,000 + 20,000 + 96,000 = 1,511,800 \text{ Taka}$

**Profit:** 25% of Total Estimated Expense =  $1,511,800 * 25\% = 37,795,000 \text{ Taka}$

**Project Budget:**  $1,511,800 + 37,795,000 = 39,306,800 \text{ Taka}$

**Group Member:**

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