

## COCOMO (Constructive Cost Model)

**Project Type** : **Organic**

**Coefficient**<sub><Effort Factor></sub> : 2.40 (P = 1.05, T = 0.38)

**Source Lines of Code (SLOC)** : 7,500 Lines

**Person Months (PM)**  
$$= Coefficeint_{<Effort Factor>} \left( \frac{SLOC}{1000} \right)^P$$
$$= 2.40 \left( \frac{7500}{1000} \right)^{1.05}$$
$$= 19.91$$

**Development Time (DM)**  
$$= 2.50(19.91)^{1.05}$$
$$= 7.79$$
$$\approx 8 \text{ Months}$$

**Required People (ST)**  
$$= PM/DM$$
$$= 2.56$$
$$\approx 3 \text{ People}$$

## Budget Estimation

### Developers' Salary in 8Months

Daily Wage	BDT1,500.00
Monthly Wage	BDT 45,000.00
Monthly Wage for Developers	BDT 135,000.00
Salary for Developers	BDT 1,080,000.00

### Requirement Analysis

Time Needed (in days)	15
Daily Wage	BDT500.00
Total Cost	BDT 7,500.00

### Transportation Cost

BDT10,000.00

### Training & H/W Expense Estimation

BDT100,000.00

### Total Utility Bill in 8Months

Monthly Utility Bill	BDT500.00
Utility Bill	BDT4,000.00

### Office Supplies

Monthly Office Supplies	BDT2,000.00
Office Supplies	BDT16,000.00

### Maintenance (Till 3 Months After Delivery)

Expense per Month	BDT10,000.00
Total Estimated Maintenance Expense	BDT30,000.00

Total Estimated Expense BDT1,327,500.00

Total Estimated Expense (15% Tax Added) BDT1,526,625.00

## **Profit**

25% of total estimated expense = BDT (1,327,500.00\*25%)  
= BDT331,875.00

## **Project Budget**

1,526,625.00 + 331,875.00 = BDT1,858,500.00