

## **Bidding Ride Service Management Budget Calculation:**

Suppose the project was estimated to be 400kSLOC, calculate the effort, development time, and time

COCOMO (CONSTRUCTIVE COST MODEL):

For Organic software project type:

$$1. \text{Effort} = PM = \text{Coefficient}_{\text{effort factor}} * (\text{SLOC} / 1000) ^P$$

$$= 2.4 * (400 * 10^3 / 1000) ^{1.05} = 1295.31$$

$$2. \text{Development time} = DM = 2.50 * (PM) ^T$$

$$= 2.50 * (1295.31) ^{0.38} = 38.07$$

$$3. \text{Required number of people} = ST = PM / DM$$

$$= 1295.31 / 38.07$$

$$= 34$$

Daily wage = 1000

Monthly wage = (1000\*30) = 30000

Daily wage for developers = 9000

Monthly wage for developer = (9000\*30) = 270,000

Salary for developers = 10530000

Monthly rent for workplace = 15,000

Rent for workplace = 585000

monthly Supplies = 3000

Supplies = (3000\*39) = 117000

Monthly utility bill = 1000

utility bill = (1000\*39) = 39000

Total expenditure = (10530000+585000+117000+39000)

= 11271000

Total expenditure (12% tax added)

=12623520