Ref. : Date :

Time Estimate in Pert

PERT uses three point estimation approach for a task.

1. **Optimistic estimate**

Estimate when all favourable things will happen (all opportunities happen and no threats take place)

2. **Pessimistic estimate**

Estimate when all unfavourable condi-tions happens (all threats happen and no opportunities take place)

3. **Most Likely estimate**

Estimate when both favourable and unfavorable condition will happen.

An average expected estimate is calculated by taking a weighted average of these 3 points estimates using below:-

- E (Mean PERT Average) = $(O + 4ML + P)/6$
  (by giving more weightage to most likely estimate.

- Standard Deviation (SD) = $(P - O)/6$

Range of Time

- Mean +/-1 Standard deviation range- Probability is 68.4%
- Mean +/-2 Standard deviation range- Probability is 95.5%
- Mean +/-3 Standard deviation range- Probability is 99.7%