Important Fremla:

Bews = Budgeted Cost of Work Schedule (ox) PV - Planned Value.

BCWP: Budgeted Cost of Work Performed (08) EV - Farned Value.

BAC = & BCWS? + task.

Budget at Completion

SPI = Schedule Performance Index = BCWP BCWS

SV = Schedule Variance = BCWP - BCWS.

if $Sv = 0 \Rightarrow 0n$ Schedule $Sv = -ve \Rightarrow Behind the Schedule$ $SV = +ve \Rightarrow ahead & Shedule$

(Planned) Percent Scheduled dos Completion = BCWS
BAC

(Actual) Percent Complete = BCWP BAC

ACWP = Actual Gost of Work Performed.

Cost Performance Index: CPI = BCWP 3 +ve > Within defined Budget.

Cost Vaciance : CV = BCWP - ACWP

if CV =0 => Count Budget CV = -Ve => Over Budget CV = +Ve => Less Budget.

Problem: For the dollowing Project Calculate SV, EV, SPI & CPI at the end of Second month. Month 11,10,000 6,00,000 25,00,000 8,00,000 Planned Value 10,00,000 7,50,000 Found Value Actual Cost 12,50,000 5,00,000, Soln: Achal Cost Evened Value Hanned Value Task 11, 10,000 10,00,000 12,50,000 1 5,00,000 6,00,000 7,50,000 2 25,00,000 8,00,000 4 BCWP = 17,50,000 ACWP = 17,50,000 BCWS /= 17,10,000 BAC = 50,10,000 1 100 100 100 100 100 100 = 17,50,000 = 1.02 SV = BCWP - BCWS = 17,50,000 - 17,10,000 17,10,000 SV - 40,000. Percent Schedule doe Completion = BCWS = 17, 10,000 = 0.34 => 34% 17,50,000 = 0.249 => 35% BCWP = 17.50,000 = 1 CV = BCWP - ACMP = 17,50,000 = 0. Sina, SV is the and SPI is >0, the above Project is alread of

CV is O and CPJ is 1, the Project is On Budget.

Loc Based Estimation

Cost of Loc = Average Labour Cost

Average Productivity

Coast Pertino of Code

Total Estimated Project Cost = Cost of LOCX Estimation

Total Estimated Project Effort = Total Estimation

Average Productivity

FP Based Estimation

Cost Par FP = Average Labour Rete Average Perductivity

Total Estimated Project Cost = Cost per FP x Court Potal

Total Estimated Project Effort = PP Estimated Average Productivity.

Process Based Estimation

Total Estimated Project Cost = Effort x Labour Rate