FOOD ORDER MANAGEMENT SYSTEM

Earned Value Analysis:-

Earned Value Analysis (EVA) is a method that allows the project manager to measure the amount of work actually performed on a project beyond the basic review of cost and schedule reports.

EVA provides a method that permits the project to be measured by progress achieved.

Earned Value:-

EV=Percent Complete (Actual) * Task Budget

Percent Complete (Actual) = 85%

Task Budget = 8000

EV = 85% * 8000

   = **6800**

Planned Value:-

PV=Percent Complete (Planned) * Task Budget

Percent Complete (Planned) = 85%

Task Budget = 8000

PV = 85% * 8000

   = **6800**

Cost Variance:-

CV = Earned Value – Actual Cost

Earned Value = 6800

Actual Cost = 7000

CV = 6800 – 7000

   = **-200**

Schedule Variance:-

SV = Earned Value – Planned Value

Earned Value = 6800

Planned Value = 6800

SV = 6800 – 6800

$\quad$ = **0**

Cost Performance Index:-

CPI = Earned Value / Actual Cost

Earned Value = 6800

Actual Cost = 7000

CPI = 6800 / 7000

$\quad$ = **0.971**

Schedule Performance Index:-

SPI = Earned Value / Planned Value

Earned Value = 6800

Planned Value = 6800

SPI = 6800/6800

$\quad$ = **1**

Estimate at completion:-

EAC = Budget at Completion / Cost Performance Index

Budget at Completion = 8000

Cost Performance Index = 0.971

EAC = 8000 / 0.971

$\quad$ = **8238.92**

Estimate time to complete:-

ETC = Original time estimation / Schedule Performance Index

Original time estimation = 60

Schedule Performance Index = 1

ETC = 60 / 1 = **60**