**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

= **0**

**Cost Performance Index**:-

CPI = Earned Value / Actual Cost

Earned Value = 6800

Actual Cost = 7000

CPI = 6800 / 7000

= **0.971**

**Schedule Performance Index**:-

SPI = Earned Value / Planned Value

Earned Value = 6800

Planned Value = 6800

SPI = 6800/6800

= **1**

**Estimate at completion**:-

EAC = Budget at Completion / Cost Performance Index

Budget at Completion = 8000

Cost Performance Index = 0.971

EAC = 8000 / 0.971

= **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**