



AJELIX

www.ajelix.com

# 15 KPIS FOR CONSTRUCTION MANAGEMENT

## 01 SCHEDULE PERFORMANCE INDEX (SPI)

$SPI = \text{Earned Value (EV)} / \text{Planned Value (PV)}$

## 02 CRITICAL PATH VARIANCE (CPV)

CPV = Actual Finish Date of Critical Task - Planned Finish Date of Critical Task

## 03 ON-TIME COMPLETION RATE

OCR = Projects Completed on Time / Total Projects

## 04 TASK COMPLETION RATE

TCR = Tasks Completed on Time / Total Number of Tasks

## 05 LEAD TIME FOR CHANGE ORDERS

LTO = Average Time Between Change Order Initiation and Completion

## 06 COST PERFORMANCE INDEX (CPI)

$CPI = \text{Earned Value (EV)} / \text{Actual Cost (AC)}$

## 07 BUDGET VARIANCE (BV)

$BV = \text{Earned Value (EV)} - \text{Actual Cost (AC)}$

## 08 RETURN ON INVESTMENT (ROI)

$ROI = (\text{Net Profit} / \text{Investment Cost}) \times 100\%$

## 09 LABOR PRODUCTIVITY

LP = Units of Work Completed / Labor Cost

## 10 MATERIAL WASTE PERCENTAGE

$MWP = (\text{Wasted Material Cost} / \text{Total Material Cost}) \times 100\%$

## 11 DEFECT RATE

DR = Number of Defects Identified / Total Units Inspected x 100%

## 12 PUNCH LIST ITEMS

Tracked as a list with descriptions and deadlines for resolution

## 13 CLIENT SATISFACTION SCORE

Depending on the chosen client satisfaction scoring system

## 14 RECORDABLE INCIDENT RATE (RIR)

$RIR = \text{Recordable Incidents} \times 100 / \text{Total Work Hours} / \text{Total Workers} \times 200,000$

## 15 LOST TIME INJURY RATE (LTIR)

$LTIR = \text{Lost Time Injuries} \times 100 / \text{Total Work Hours} / \text{Total Workers} \times 200,000$