### **Asset Management**

Asset management refers to the management process through which the utilization of assets is effectively managed to ensure the most optimum Return on Investment.

### Jagdeep Verma Holtec Consulting, India







- Are the assets adequate?
- Are these sustainably healthy?
- Are they being utilised to their full potential?
- How do their performance compare against industry benchmarks?
- How can the returns on these be enhanced?













**Evaluate the usage of captive reserves include Limestone, other Raw Materials, Fuel, etc** to assure higher longevity, adequate quality and lower unit costs













#### Cost Head – Activity Matrix

Cost Heads Activities	Stores & Spares	Consum ables	Fuel	Power	Total Cost
Drilling					
Blasting					
Excavation					
Transport					



**OBJECTIVE: Influence key drivers to**  $\checkmark$  Raising Cost =  $\uparrow$  Rol









Key Performance Indicators (KPI)	Unit
<b>Overall Equipment Efficiency (OEE)</b>	%
Mean Time Between Failure (MTBF)	h
Highest Clinker Production	t/d
Thermal Energy	kCal/ kg Clinker
Electrical Energy	kWh/ t Cement
<b>Clinker Production</b>	t/a
Clinker Factor	%
Cement Production	t/a
Labour Productivity	<b>manhours/</b> t
Specific Variable Cost	<b>\$/</b> t
Specific Fixed Cost	<b>\$/</b> t
Total Cost	<b>\$/</b> t























Remote Monitoring Set Up

Integration of Information system through Plant Control System, MIS, Lab Management System etc. in Local Server (Plant) Real Time Data Display with help of HMI Graphics , Data Logger, Historian, Trends and Video Display

![](_page_12_Figure_3.jpeg)

![](_page_12_Picture_4.jpeg)

#### Data Analysis & Action Plans by Experts at Holtec Information Centre

![](_page_12_Picture_6.jpeg)

![](_page_13_Picture_0.jpeg)

Current Status (KPIs)

Improvement Areas Identification through detailed plant visit

Improvement Areas' Prioritisation

> Cost Benefit Analysis

Action Plans Formulation

> Action Plans "buy-in" by client's team

> Implementation Assistance

> KPI Monitoring and Course Corrections

![](_page_13_Picture_9.jpeg)

![](_page_13_Picture_10.jpeg)

![](_page_14_Picture_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_15_Picture_0.jpeg)

![](_page_15_Figure_1.jpeg)

![](_page_16_Picture_0.jpeg)

![](_page_16_Figure_1.jpeg)

Based on diagnostic intervention, assets' effectiveness increased by improving the processes and/ or by additional investment in some sub-asset classes.

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![](_page_16_Picture_3.jpeg)

![](_page_17_Picture_0.jpeg)

## **THANK YOU**

# **HOLTEC CONSULTING**

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![](_page_17_Picture_5.jpeg)