



**KAIZEN THEME : 100 % PREVENTIVE MAINTENANCE SCHEDULE ADHERENCE  
THROUGH AUTO INTIMATION BY HMI**

**Kaizen Category: Industry 4.0/Digitization  
BU: 03**

**Unit:N-8 HMCL**

## KAIZEN IDEA SHEET

- 3** ☐ Safety (सुरक्षा) ☐ Productivity (उत्पादकता)  
☐ Quality (गुणवत्ता) ☐ Energy, Environment & Health (ऊर्जा, पर्यावरण एवं स्वास्थ्य)  
☐ Cost (लागत) ☒ Industry 4.0/Digitization (इंडस्ट्री 4.0/डिजिटाइजेशन)

### 4. Before Kaizen (Sketch / Picture) काइज़ेन से पहले (स्केच / चित्र)



**5. Problem Statement/Situation (समस्या का विवरण/स्थिति) :** Machine PM Schedule Plan Vs actual manual monitoring. Some time if PM delay due to no any auto intimation it will increase breakdown frequency

### 12. Benefits (लाभ):

- Financial Benefits (Rs./Year):0
- Operational Benefits-Intangible:1.Troubleshooting easy/Reduce Breakdown time
- 100% on time M/c PM adherence by auto intimation.
- Machine Efficiency increased

Preventive ☒ Detective ☒

**13. Standardization (मानकीकरण)-Monthly PM check sheet**

**14. Applicability for Horizontal Deployment within plant (इस काइज़ेन को और कहां कहां पर लागू किया जा सकता है )-DPM:** Implementation plan at all SPM & Robotic Stage(1/16 - Done)

**1. Suggestor Name**  
(सुझाव कर्ता का नाम)

Akshey Kumar

**2. Employee Code**  
(कर्मचारी कोड)

28674

**8. Implementer Name**  
(कार्यान्वयनकर्ता का नाम)

Nitin Saini

**9. Employee Code**  
(कर्मचारी कोड)

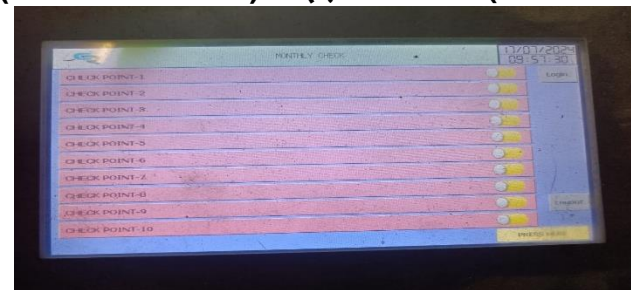
32657

**10. Implementation Date**  
(कार्यान्वयन दिनांक)

21.05.24

**17. Registration No.**  
(पंजीकरण संख्या)

### 6. After Kaizen (Sketch / Picture) काइज़ेन के बाद (स्केच / चित्र)



**7. Description of Implemented Solution (कार्यान्वित समाधान का विवरण):** HMI Install on SPM and M/c PM check sheet upload in HMI and interlock with machine along with PM schedule. So that if PM due as per schedule machine stop and give indication by alarm.(We can check PM checkpoint in HMI and closed at same place after verification)

**11. Cost of Implementation (COI) कार्यान्वयन की लागत:** 15K

**15. Results Verification Remark (\*By DPM/PH/OH/FH – As applicable) परिणाम सत्यापन टिप्पणी :**Good kaizen to ensure 100% PM adherence

**16. Benefit-Cost Ratio (लाभ-लागत अनुपात):-**

$$\frac{\text{Benefits (लाभ)}}{\text{COI (कार्यान्वयन की लागत)}} = 0$$

➤ **Tangible Kaizen Evaluation Criteria:** Ranking to be done based on the Benefits-Cost ratio.

➤ **Intangible Kaizen Evaluation Criteria:** A-Category: Preventive B-Category: Detective C-Category: Corrective



# RESULT & BENEFITS

