

The Client has taken Automotive lighting to an entire new level. Today the Client accounts for over 60% market share in the Indian Automobile Lighting Business.

### **Solution:**

Warehouse Management Solution + Vendor Management.

### **Problem / Pain Point:**

The Client does not use automation at any level of operation, thereby making the process time consuming and unreliable. This also makes the process prone to manual errors. The current set up also makes product tracking difficult.

### **Objective of Project:**

1. To automate raw material & finished good warehouse operations.
2. To minimize the chances of error caused due to human intervention.
3. To overcome the challenges in product tracking.

### **Solutions Proposed:**

#### **Vendor Management Solution**

The proposed solution will start from the vendor end through vendor management application (QodeVendor Application), where the vendor needs to print & paste a barcode label on the material dispatched to the Client.

#### **Warehouse Management System (Raw Materials)**

Once the material will be received at the Clients premises, GRN process will take place by scanning the received material from vendor end. The material will then move for QC acceptance & approval. Barcode printers will be used to generate unique barcode labels containing batch related information.

Hand Held Terminals (HHT) will be used by the operators to scan the material. The information will then be shared with the SAP through the WEBSERVICES.

The HHT will be used to scan the put away location, on completion of which the material & location information is automatically updated in real time in the QodeWMS application.

On receiving an order, the information automatically gets updated on the QodeWMS application. A pick list is then generated using the information and it also highlights the location for collecting the same.

Post collecting the materials the order gets validated & is automatically processed by using the HHT. The outward entry is then captured by the system and report is generated. Thereby ending the picking process. The material will then move to production area for further processing.

#### **Warehouse Management System (Finished Goods)**

At the finished goods stage, a label would be generated for the FG. Followed by the next stage in which the bin or box label will be generated. The label has to be then manually pasted on the bin box. This process then follows the same process as for Warehouse Management (Raw Material).

Once the material will be ready for the dispatch, the operator needs to scan the material for the Load Time Verification with the HHT based application, this information will not be shared with the SAP. This Load Time verification is for the validation check at the HHT level.

### **Benefits:**

1. Automation improves operational efficiency & enables automatic GRN processes.
2. Printing & sensing technology provides accuracy in material picking – Quantity wise & Batch wise and reduces the occurrence of manual errors.
3. The QodeVendor software enables tracking of material from vendor, which in turn enables back traceability.
4. The solution enables report generation, which can be used to take data driven decisions. Tracking of material end from vendor end.