

S.NO	Task	Description
1	Truck Unloading	allocating docks and Unloading materials from trucks.
2	Ratio Counting and Vision Counting	Utilizing ratio counting and vision counting systems to determine material quantities.
3	GRN Generation	Generating Goods Receipt Note for received materials.
4	Bin Barcode Generation	Generating and labeling bins with barcodes.
5	Inspection and Material Segregation	Inspecting materials and segregating into skip and non-skip categories.
6	Put Away	Physically placing materials into designated racks.
7	Picking	Retrieving materials from racks based on picklists.
8	Empty Bin Management	Managing empty bins for reuse
9	Dispatch and Scrap Management	Dispatching materials to assembly or scrap yard.

Automation Status	Responsible Parties	Tools Used
Manual process	Store Person, Driver	Invoice with Integrated Barcode, Dock Allocation System
Partially automated with vision counting.	Store Person.	Vision Counting System.
Can be partially automated.	Store Person.	Barcode Scanner, GRN System.
Manual process.	Store Person.	Barcode Printer, Barcode Scanner.
Partially automated with vision counting.	Quality Assurance Team, Store Person.	Vision Counting System, Physical Counting.
Manual process.	Store Person.	Barcode Scanner, Rack Labeling System.
Partially automated with RF systems.	Picker	RF Scanner, Picklist System
Manual process.	Store Person.	Barcode Scanner.
Partially automated.	Store Person, Scrap Yard Team.	Barcode Scanner, Dispatch System.

Frequency	Critical Notes	Dependencies
Occurs as trucks arrive for unloading	Ensure efficient dock allocation to minimize wait times	Integrated Invoice with Barcode
Before GRN generation.	Ensure accurate counting for inventory accuracy and quality control.	None
After each truck unloading.	Ensure accurate recording of received materials.	Truck unloading completion.
After each GRN generation.	Ensure proper labeling for inventory tracking.	GRN generation completion.
After bin barcode generation.	Ensure accurate segregation for quality control.	Bin barcode generation completion.
After inspection and segregation.	Ensure correct placement for easy retrieval.	Truck unloading completion.
As orders are received	Ensure accurate picking to avoid order errors.	Put away completion and Pick lists updated by respective person
After materials are picked.	Ensure proper tracking of empty bins to maintain inventory levels	Picking completion.
After picking and inspection.	Ensure proper documentation for dispatch and scrap handling.	Picking and inspection completion.

Data Inputs	Outputs
Arrival of trucks, Dock allocation information	Unloaded materials, Dock allocation confirmation.
Material quantities, Vision counting results.	Counted material quantities, Vision counting confirmation.
Material details, Truck unloading confirmation.	Generated GRN, Material receipt confirmation.
Material identification details, GRN confirmation.	Labeled bins with barcodes, Inventory tracking initiation.
Material inspection results, Bin barcode confirmation.	Segregated materials, Quality control documentation.
Material placement details, Segregation confirmation.	Materials placed in designated racks, Inventory location updates.
Picklist details, Rack location confirmation.	Picked materials, Order fulfillment confirmation.
Empty bin tracking, Material picking confirmation.	Tracked empty bins, Inventory replenishment.
Material dispatch details, Scrap yard confirmation.	Dispatched materials, Scrap documentation.

Issues / Exceptions Handling

Delay in truck arrival, Dock allocation issues for trucks which are carrying multiple parts corresponding to multiple plant stores if multiple parts are critical at a time. Issues with Integrated Invoice with barcode which is already implemented by SACL company from past 1.5 year

Vision counting errors, Inaccurate counting results

Inaccurate material recording, GRN generation errors.

Labeling errors, Barcode generation issues.

Incorrect segregation, Quality control discrepancies.

Incorrect placement, Rack labeling issues.

Picklist errors, Inventory discrepancies.

Empty bin shortages, Tracking discrepancies.

Dispatch errors, Scrap yard discrepancies.