



BENCHMARK COMPUTER
SOLUTIONS LIMITED

WMS

WAREHOUSE MANAGEMENT SYSTEM

Powered by next generation technology



Cloud
Hosted



HHT
Driven



BOTs
Enabled



Intelligent
Command
Centre

About WMS

A modern inventory system

Reduce stockouts, speed up operations, optimize routes and get real time visibility with the warehouse management system.

- This is a multi-warehouse, multi-account system.
- Accessible using web browser
- HHT devices.
- Compatible with various Barcode formats.



Storage

- **Locations**
Create and manage specific storage locations, like shelves, cold storage rooms, and pallet racks.
- **Putaway rules**
Automatically route products to ideal storage locations based on real-time capacity (storage categories), product storage needs, and picking accessibility.
- **Operations**
Create dedicated locations to receive products, sort, pack, and other warehouse operations.
- **Smart removal**
Choose product removal strategies (FIFO, FEFO, nearest available zone, LEFO) and streamline picker paths with the right picking method (single, batch).



Operations

- **Receipts**

Manage incoming shipments with vendor provided arrival dates and automatic unit of measure conversion for received quantities.

- **Pick**

Create smart automatic batches based on shipping carriers, serial numbers, specific quantities, and total weight for picker convenience. If stock is insufficient, the option to create a backorder is available.

- **Pack**

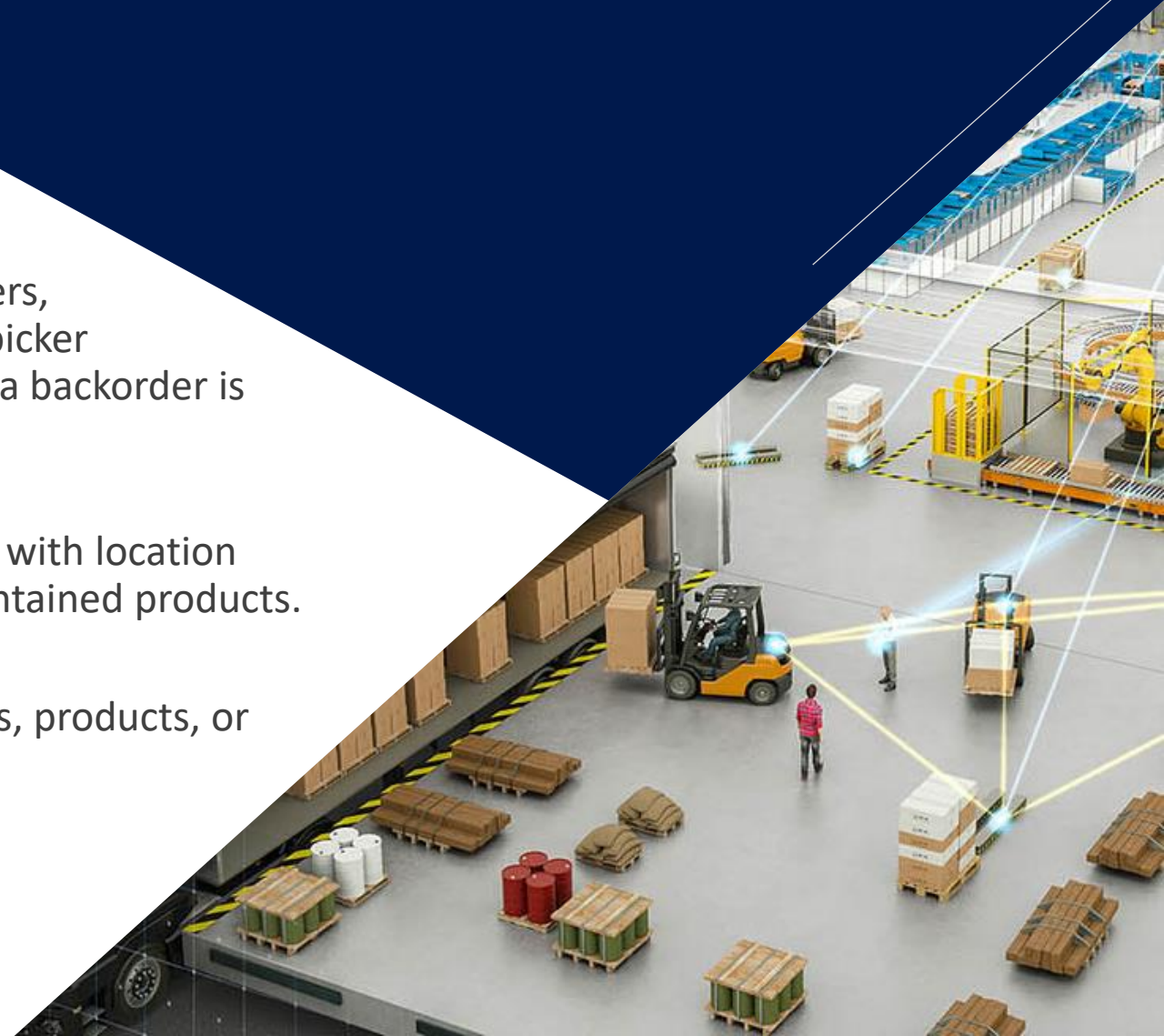
Assign barcodes to sealed packages for content tracking, with location updates of the package also reflecting the location of contained products.

- **Inventory adjustments**

Schedule recurring stock counts on vital storage locations, products, or lots to keep inventory up to date all the time.

- **Returns**

Set predefined routes for return condition assessment, refurbishing, restocking, or disposal.



Productivity

- **Barcode**
Streamline *any* warehouse operation using a barcode scanner: receipts, pickings, inventory adjustments. Update and perform real-time warehouse actions, anytime and anywhere. Supports GS1, EAN13, and EAN14 out of the box.
- **Customer portal**
Live web page where customers can track the status of their order and delivery status.
- **Search products by location**
Locate products, their storage locations, and quantities from a single dashboard.
- **Search by barcode**
Locate any warehouse document, simply by scanning the barcode.



Traceability

- **Lots/serial numbers**

View a dedicated report to track products from supplier to customer. Rich product identity records enable advanced tracing into after-sales services.

- **Audit trail**

Log all user actions: such as stock moves, counts, adjustments, approvals of adjustments, and record modifications.



Products

- **Types**
Categorize products into three types: storable, consumable (not stockable), and services (not stockable).
- **Expiration dates**
Automatic reminders and picking priority determined by best removal and expiration dates.
- **Shipping labels**
Generate shipping labels for integrated carriers.



Reporting

- **Daily MIS Report**
Complete information of the daily movement of inventory for the day.
- **Inventory Trace**
Full stock moves report to map and trace product moves from supplier to customer.
- **Stock aging report**
Monitor how long items have been in the warehouse. Quantities are sorted by receipt date, allowing you to stay informed about products nearing expiration.
- **Auto scheduling of the Reports**
Generate automated scheduled report, to the defined audience.



Integrations

- **API Integration (Operations)**

Customers can use the pre-built API to PULL and PUSH data to and from the WMS system. ASN, GRN, Sales Order, Confirmed Picking, Invoice tagging, Shipping Labels, Invoice Copy, Packing, Docket Generation, Dispatch and Shipment tracking.

- **API Integration (Carriers)**

API Integration for Docket Generation, upon confirmed Packing.



Tech Stack

- **Cloud Services:** Hosted in the Sify Data Center
- **Servers and Storage:** Operating on Ubuntu v22 with containerized services; separate VMs for applications and database repositories.
- **Networking:** The network incorporates firewalls and VPNs for secure connections.
- **Backup:** Real-time backup with daily snapshots.
- **Technology:** Built with Angular, .NET Core, MySQL, Swagger, Hangfire, Docker, HTML, CSS, and Bootstrap.
- **Version Control:** Git is used for version control.
- **Collaboration Tools:** Jira is utilized for team collaboration and project management.

Security

Your online safety is our top priority. We not only adhere to the highest international security standards, but we also maintain full ownership of our entire technology stack.

- Encryption: SSL/TLS encryption method is used for data at rest and in transit. *We are also in the process of implementing AES encryption method.*
- Authentication and Authorization: JWT identity management and access control mechanisms is used.

Privacy

We prioritize your privacy by ensuring that you won't see any ads, we don't use third-party cookies to track you, and we don't mine your data. Additionally, we're committed to helping you safeguard your customer information and maintain compliance with data privacy regulations.

WMS Solution Spectrum

Configuration	Master Setup	Inbound Management	Outbound Management	Warehouse Activities	Utility	Tools	HHT (Hand Held Terminals)
Account Setup	SKU	ASN	Sales Order	Box Breakup	Reprint Barcode	API Integration with Customer Systems	Putaway
Warehouse Setup	Supplier	DOCK Assign & Unloading	Picking	BIN Movement	SKU Conversion	API Integration for Shipment with multiple Carriers	Picking
BIN Location Setup	Customer	GRN	Packing	RACK Optimisation		Dashboard	BIN Movement
DOCK Setup	Transporter	Putaway	Pre Dispatch Verification	Inventory Tracking		Freight Bill	Cycle Count
		Sales Return	Dispatch	Cycle Count			Kitting & De-Kitting
			Dock Assign & Loading	Material to Material Movement			
				Adjustment			
				Kitting & De-Kitting			

Few snaps of the System (Web)

Import ASN

Configure

Map Fields

Preview

Valid Records (2)

INVOICE NO	INVOICE DATE	SUPPLIER CODE	SUPPLIER NAME	CATEGORY	PRODUCT CODE	SKU DESCRIPTION	IMPORT NO.	QTY
AC-21201	28-08-2022	S00146	PERFECT TRADERS	RGL IMPORT EXCISE	M-10	HAND TACKER KAYMO M-10	POM0195	3000
AC-21201	28-08-2022	S00146	PERFECT TRADERS	RGL IMPORT EXCISE	P-10	HAND TACKER KAYMO P-10	POM0195	4000

Invalid Records (1)

ERROR MESSAGE	INVOICE NO	INVOICE DATE	SUPPLIER CODE	SUPPLIER NAME	CATEGORY	PRODUCT CODE	SKU DESCRIPTION	IMPORT NO.	QTY
Invoice already exist.	AC-212011	28-08-2022	S00146	PERFECT TRADERS	RGL IMPORT EXCISE	P-8	HAND TACKER KAYMO P-10	POM0195	7000

Previous

Import

Cancel

wms-uat.myrgl.com/dock-unloading/edit

WMS

Search in Customers

VENDIMAN | CHENNAI

Dashboard

Dock Assign

Inbound

ASN

Dock & Unloading

GRN

Putaway

Sales Return

Outbound

Warehouse

Master

Reports

Security

Edit Dock & Unloading

Total Quantity: 12

Status: In Process

ASN No: ASN/VMC/23-24/00035

Creation Date: 28-11-2023

Account: Vendiman

Warehouse: CHENNAI

Docking Details

Unloading Details

System Details

As per Docket

No. of Box as per Docket: 12

Total Invoice Quantity: 12

Total Invoice Value: Enter as per the Invoice

As per Physical

Total Box: 12

Un-docking Snap & Time*: 2023-11-28 17:08:15

Damage Box(s)*: 0

Remarks

Update

Delete

Release

Edit GRN

GRN No: GRN/VMC/23-24/00050

Creation Date: 29-11-2023

Account: Vendiman

Warehouse: CHENNAI

Quantity Received: 30

Damage: -

Short: -

Excess: -

GRN Status: Draft

GRN Details

Line of Items

System Details

SKU CODE	SKU DESCRIPTION	QUANTITY (ASN)	QUANTITY (INVOICE)	QUANTITY RECEIVED	DAMAGED QUANTITY	SHORT QUANTITY	EXCESS QUANTITY	NO. OF PALLET	REMARKS
9822	Airport Brekkie Coffee Shake - Rs. 80	20	20	20	0	0	0		
9822	Airport Brekkie Coffee Shake - Rs. 80	10	10	10	0	0	0		

+ Add

Update

Delete

Release

wms-uat.myrgl.com/putaway

WMS

Search in Customers

VENDIMAN | CHENNAI

Dashboard

Dock Assign

Inbound

ASN

Dock & Unloading

GRN

Putaway

Sales Return

Outbound

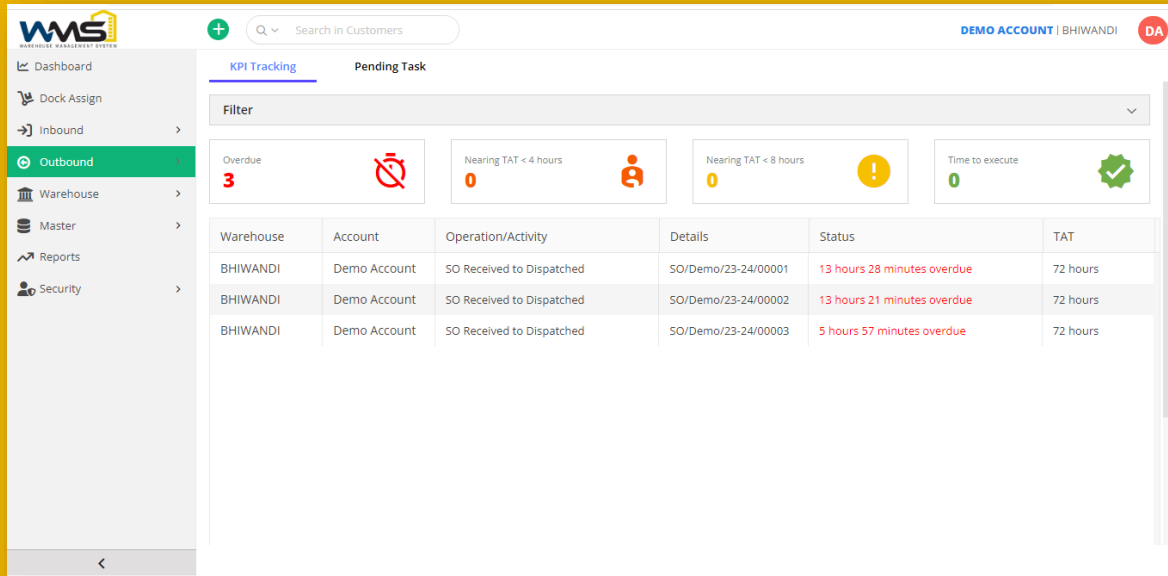
Warehouse

Master

Pending Putaway

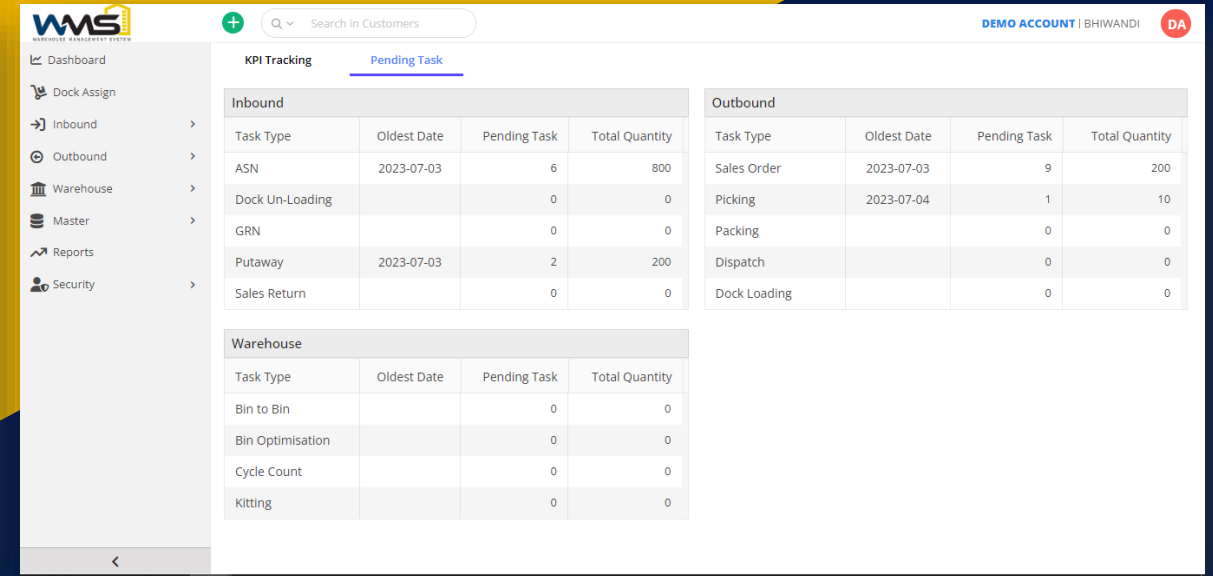
	GRN NO	INVOICE NO	PUTAWAY DATE	PARTY	% COMPLETED	QUANTITY	PUTAWAY STATUS
<input type="checkbox"/>	GRN/VMC/23-24/00050	IN-01254		Agro Tech Foods Ltd		30	PUTAWAY
<input type="checkbox"/>	GRN/VMC/23-24/00049	IN-346834		Sumeet Facilities Limited		10	PUTAWAY
<input type="checkbox"/>	GRN/VMC/23-24/00047	TESTING_1	23-11-2023	Nutan Industries	100.00	13	Released
<input type="checkbox"/>	GRN/VMC/23-24/00046	asd1211	23-11-2023	Wipro, 000, Elcot SEZ, Gate-3, Sholinganallur	100.00	6	Released
<input type="checkbox"/>	GRN/VMC/23-24/00034	4425	03-11-2023	Nutan Industries		5	Released

Few snaps of the System (Web)



This screenshot shows the 'Pending Task' dashboard in the WMS system. The interface includes a sidebar with navigation options like Dashboard, Dock Assign, Inbound, Outbound, Warehouse, Master, Reports, and Security. The main area is titled 'Pending Task' and features a 'Filter' section with four categories: 'Overdue' (3 tasks), 'Nearing TAT < 4 hours' (0 tasks), 'Nearing TAT < 8 hours' (0 tasks), and 'Time to execute' (0 tasks). Below the filter is a table listing pending tasks with columns for Warehouse, Account, Operation/Activity, Details, Status, and TAT.

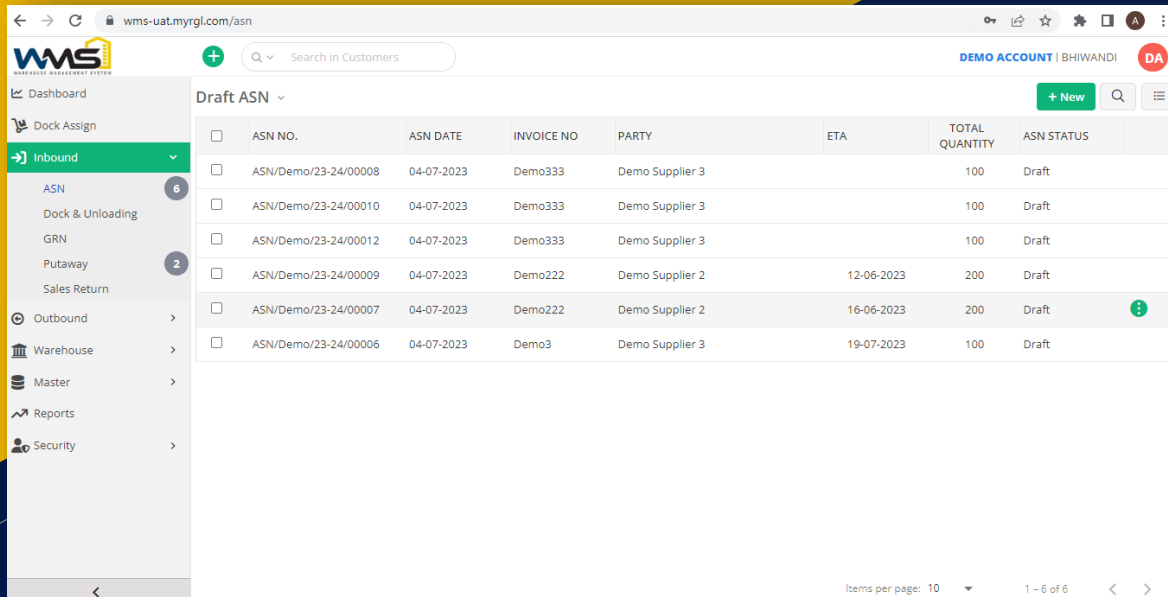
Warehouse	Account	Operation/Activity	Details	Status	TAT
BHIWANDI	Demo Account	SO Received to Dispatched	SO/Demo/23-24/00001	13 hours 28 minutes overdue	72 hours
BHIWANDI	Demo Account	SO Received to Dispatched	SO/Demo/23-24/00002	13 hours 21 minutes overdue	72 hours
BHIWANDI	Demo Account	SO Received to Dispatched	SO/Demo/23-24/00003	5 hours 57 minutes overdue	72 hours



This screenshot shows the 'KPI Tracking' dashboard in the WMS system. The interface includes a sidebar with navigation options like Dashboard, Dock Assign, Inbound, Outbound, Warehouse, Master, Reports, and Security. The main area is titled 'KPI Tracking' and features two tables: 'Inbound' and 'Outbound'. Each table has columns for Task Type, Oldest Date, Pending Task, and Total Quantity.

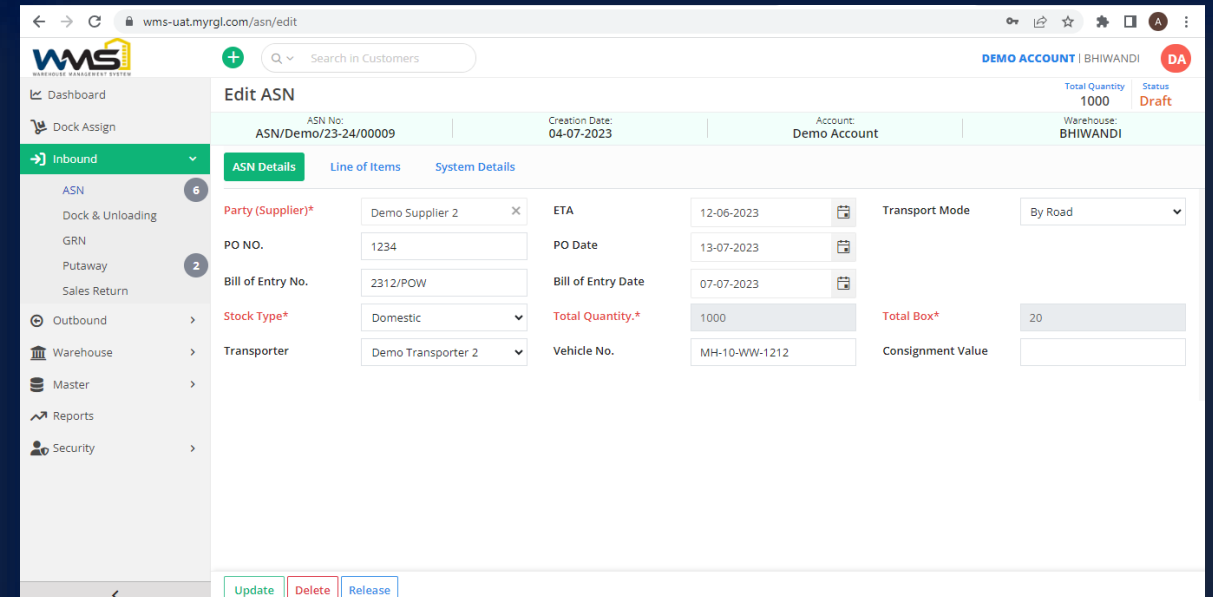
Task Type	Oldest Date	Pending Task	Total Quantity
ASN	2023-07-03	6	800
Dock Un-Loading		0	0
GRN		0	0
Putaway	2023-07-03	2	200
Sales Return		0	0

Task Type	Oldest Date	Pending Task	Total Quantity
Sales Order	2023-07-03	9	200
Picking	2023-07-04	1	10
Packing		0	0
Dispatch		0	0
Dock Loading		0	0



This screenshot shows the 'Draft ASN' list in the WMS system. The interface includes a sidebar with navigation options like Dashboard, Dock Assign, Inbound, Outbound, Warehouse, Master, Reports, and Security. The main area is titled 'Draft ASN' and features a table listing draft ASNs with columns for ASN NO., ASN DATE, INVOICE NO., PARTY, ETA, TOTAL QUANTITY, and ASN STATUS.

ASN NO.	ASN DATE	INVOICE NO.	PARTY	ETA	TOTAL QUANTITY	ASN STATUS
ASN/Demo/23-24/00008	04-07-2023	Demo333	Demo Supplier 3		100	Draft
ASN/Demo/23-24/00010	04-07-2023	Demo333	Demo Supplier 3		100	Draft
ASN/Demo/23-24/00012	04-07-2023	Demo333	Demo Supplier 3		100	Draft
ASN/Demo/23-24/00009	04-07-2023	Demo222	Demo Supplier 2	12-06-2023	200	Draft
ASN/Demo/23-24/00007	04-07-2023	Demo222	Demo Supplier 2	16-06-2023	200	Draft
ASN/Demo/23-24/00006	04-07-2023	Demo3	Demo Supplier 3	19-07-2023	100	Draft



This screenshot shows the 'Edit ASN' form in the WMS system. The interface includes a sidebar with navigation options like Dashboard, Dock Assign, Inbound, Outbound, Warehouse, Master, Reports, and Security. The main area is titled 'Edit ASN' and features a form with fields for ASN No., Creation Date, Account, Warehouse, Party (Supplier), PO No., Bill of Entry No., Stock Type, Transporter, ETA, PO Date, Bill of Entry Date, Total Quantity, Total Box, and Consignment Value. The form also includes buttons for 'Update', 'Delete', and 'Release'.

ASN No.	Creation Date	Account	Warehouse
ASN/Demo/23-24/00009	04-07-2023	Demo Account	BHIWANDI

Party (Supplier)*	ETA	Transport Mode
Demo Supplier 2	12-06-2023	By Road

PO No.	PO Date
1234	13-07-2023

Bill of Entry No.	Bill of Entry Date
2312/POW	07-07-2023

Stock Type*	Total Quantity.*	Total Box*
Domestic	1000	20

Transporter	Vehicle No.	Consignment Value
Demo Transporter 2	MH-10-WW-1212	

Few snaps of the System (Web)

The screenshot shows the WMS Dashboard with a sidebar menu on the left containing: Dashboard, Dock Assign, Inbound, Outbound, Warehouse, Master, Reports, and Security. The main content area is divided into two sections: 'List of Dock' and 'List of Pending ASN'.

List of Dock: A grid of 8 dock slots, each labeled 'LEV' and 'Free'. Slot 4 is highlighted with a red border and contains the text 'DEMO ACCOUNT ASN/Demo/23-24/00008 just now'.

List of Pending ASN: A table with columns: ASN NO, ACCOUNT, INVOICE NO, and PARTY.

ASN NO	ACCOUNT	INVOICE NO	PARTY
ASN/Demo/23-24/00010	Demo Account	Demo333	Demo Supplier 3
ASN/Demo/23-24/00012	Demo Account	Demo333	Demo Supplier 3

The screenshot shows the WMS Dashboard with a sidebar menu on the left. The main content area is divided into two sections: 'List of Dock' and 'Assign Dock' modal.

List of Dock: A grid of 8 dock slots, each labeled 'LEV' and 'Free'. Slot 4 is highlighted with a red border.

Assign Dock Modal: A form for assigning a dock. It includes fields for 'Assign for' (Inbound/Outbound), 'Account*', 'ASN No*', 'Transporter*', 'Docket Details' (INVOICE NO, DOCKET NO, DOCKET DATE), 'Vehicle No*', 'Security*', and 'Dock No*'. The 'Assign' button is green.

The screenshot shows the WMS Dashboard with a sidebar menu on the left. The main content area is divided into two sections: 'Pending Dock & Unloading' and a table.

Pending Dock & Unloading: A table with columns: ASN NO, PARTY, ETA, TOTAL QUANTITY, TOTAL BOXES, STATUS, and DOCK & UNLOAD.

ASN NO	PARTY	ETA	TOTAL QUANTITY	TOTAL BOXES	STATUS	DOCK & UNLOAD
ASN/Demo/23-24/00014	Demo Supplier 1	08-07-2023	20	20	Pending	12 DOCK & UNLOAD
ASN/Demo/23-24/00013	Demo Supplier 2	26-06-2023	20	2	Pending	10 DOCK & UNLOAD
ASN/Demo/23-24/00008	Demo Supplier 3		600	10	Pending	4 DOCK & UNLOAD
ASN/Demo/23-24/00012	Demo Supplier 3		100	10	Pending	Dock not assigned
ASN/Demo/23-24/00010	Demo Supplier 3		600	10	Pending	Dock not assigned

The screenshot shows the WMS Dashboard with a sidebar menu on the left. The main content area is divided into four sections: 'Inbound', 'Outbound', 'Stock', and 'Inventory'.

Inbound: A section with a dropdown arrow.


Outbound: A section with a dropdown arrow.

Stock: A section with a dropdown arrow and links to: Stock Ageing Report, Daily Stock Transaction Report, Item Ledger Report, Current Stock Report, and Closing Stock Report.

Inventory: A section with a dropdown arrow.

Few snaps of the System (HHT)

2:47



Sign in to your account





Email Address
Enter your Email Address

Password
Enter your Password

Login

2:31

Demo Account IS HHT

	Putaway	1
	Picking	1
	Packing	0
	PDV	0

Version: 01,123

2:31

Putaway List

GRN/Demo/24-25/00003 03-05-2024 00:00
C1
Picker(s) : # Pickers : 0

Total Qty	Total Boxes	Pending Qty
0/100	0/10	100

2:32

GRN/Demo/24-25/00003 **DONE**
C1
16-05-2024 15:00

Demo Supplier 2 0/100
0/10

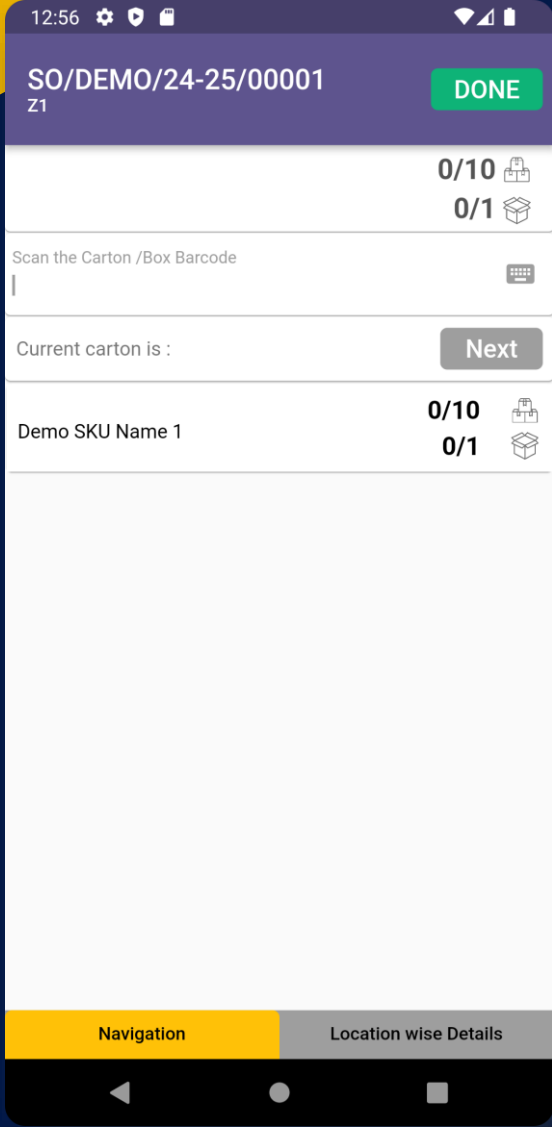
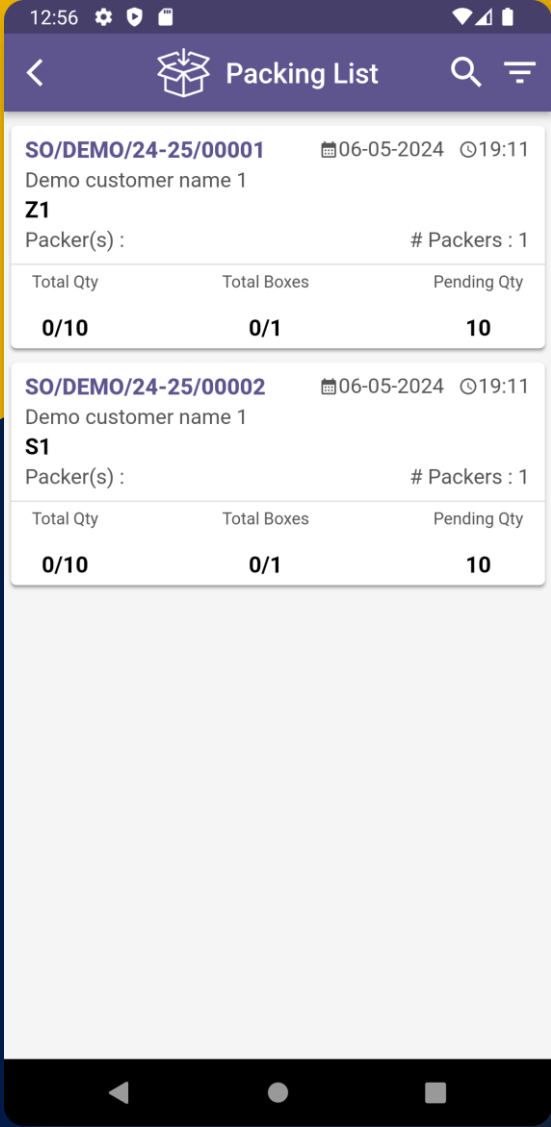
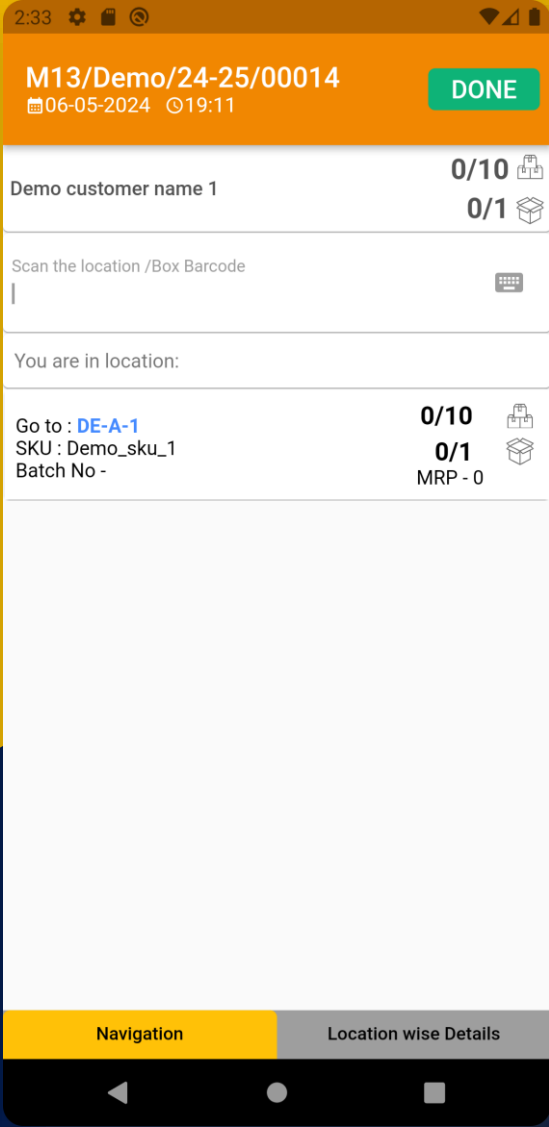
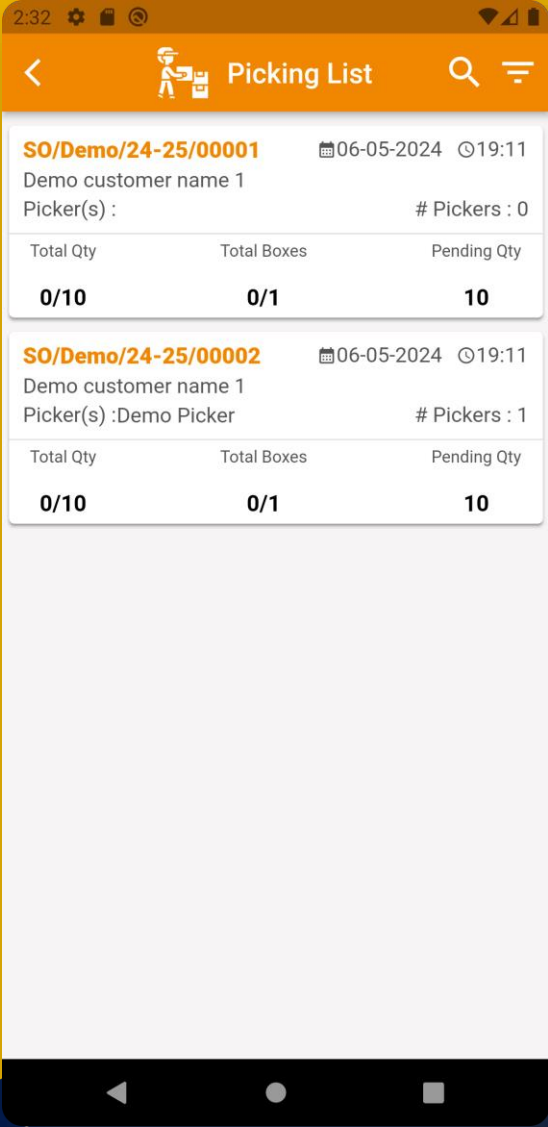
Scan the location / Box Barcode

You are in location:

SKU : Demo_sku_11 0/100
Go to : [DE-A-2](#) 0/10
Stock - Saleable
Batch No - MRP - 10.0

SKU wise Details Location wise Details

Few snaps of the System (HHT)



Advantages

- The platform is highly customizable to meet the specific requirements of each customer.
- Integration with the customer's existing ERP or third-party systems can be facilitated.
- Dashboards and reports can be tailored to the customer's unique needs.



BENCHMARK COMPUTER
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Thank You.



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