

Bins Enquiry & Bin Setup in Vin eRetail

Modified on: Mon, 18 Oct, 2021 at 9:44 PM

Bin and Bin Types

The storage bin is the smallest available unit of space in a warehouse. The storage bin therefore describes the position in the warehouse where the goods are or can be stored. Bin locations are used to designate where items of inventory are to be stored. They can represent a shelf, a pallet location, a storage area, or any other place where products are stored. Bin names can also be created basis the function they are going to perform, e.g., let-down bin, kit to bin, pigeon hole outbound bin etc. Address of a bin can also be derived from a coordinate system e.g., the coordinate 01-02-03 could be a storage bin in aisle 1, stack 2, and level 3.

Bins can also be organised basis the put-away strategies in the warehouse. A bin can be categorized basis the status and feature of the inventory it contains e.g. Good, Bad, damaged etc.

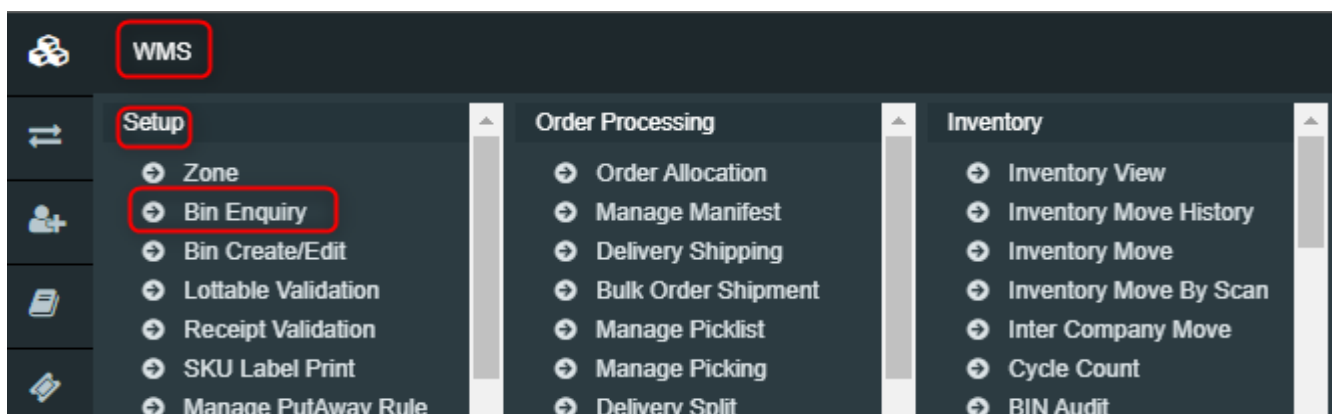
Hence, there is no single defined criteria for the bins. However, Vin eRetail represents a detailed way of creating and managing bins basis your warehouse/store setup. It captures all the important features of bins and hence, it is easy for the user to tweak the bin setup as per their requirements.

In this document, we will understand different types and features of the bin and how can we use Bin enquiry screen to search/edit bins.

Bin Enquiry Screen

This section will enable user to enquire and search an already existing Bin and related details. User can refine the search further by using filters as per requirement/s. User can also take a print/download/export of all the data present on Enquiry screen at any point of time.

Navigation: Vin eRetail screen>WMS>Setup> Bin enquiry



Bin Enquiry screen contains below headers and action buttons:

<input checked="" type="checkbox"/>	Location	Bin Code	Zone	Bin Bucket	Bin Location Type	Approx. No Of Units	Bin Qty	Status	Commingle Lot	Commingle Item
	--- Select ---		--- Select ---	--- Select ---	--- Select ---			Active		

Fields	Field Description
Location*	It is the warehouse location. User can select the warehouse location from the drop box from where he wants to filter the bins. User will have to mention the location as the warehouse/physical location for the Bin while creation.
Bin Code	Bin code is the unique code given by the user to the bin while creating the Bin. This is the mandatory field. User can search the Bin by using a Bin code. User can open/edit a bin by clicking on "Bin code" from the Bin enquiry screen.

Zone	User will be choosing the “zone” from the drop list showing the already created zones for the Bins. Bins are linked with the zones while user creates them. With this field, user can filter the bins by selecting a zone.
Bin Bucket	Bin bucket is the field which shows the status and feature of the bin created. For example, the bucket can be with the name based on conditions like Good/Bad/Damaged etc. A good bin is a sellable bin, and a bad bin is usually returns that are not in sellable condition.
Bin location type	Basis on the storage location, Bin location can be selected as a palette, case, casepack, piece or regular etc. This field can be customized basis user requirements.
Approx. No of Units	User cannot filter the data basis this tab but when any bin is selected, this field shows the approx. number of units that can be stored in that bin.
Bin Qty	User cannot filter the data basis this tab but when any bin is selected, this field shows the current quantity of items present in the bin at a particular time.
Status	Bins status is used to filter the “Active” or “Inactive” bins. The status is selected by the user while creating/editing a bin.
Commingle lot	If the user wants to keep multiple lots of the same item in one bin, then this commingle lot checkbox requires to be checked while creating the bin. Lot can be basis MRP, Exp or Mfg Date etc. User cannot filter the data basis this checkbox; however, the bin will show the “Commingle lot” value as “True” if the button is checked while creating the bin.
Commingle item	If the user wants to keep different items in the same bin, then this commingle item requires to be checked while creating the bin. User cannot filter the data basis this checkbox; however, the bin will show the “Commingle item” value as “True” if the button is checked while creating the bin.

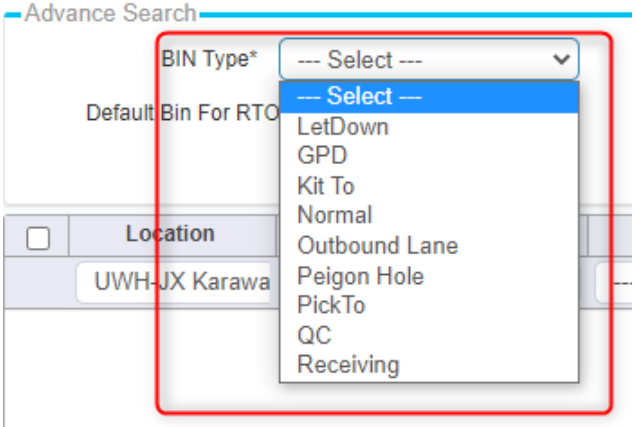
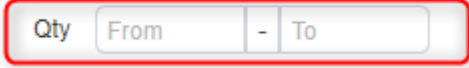
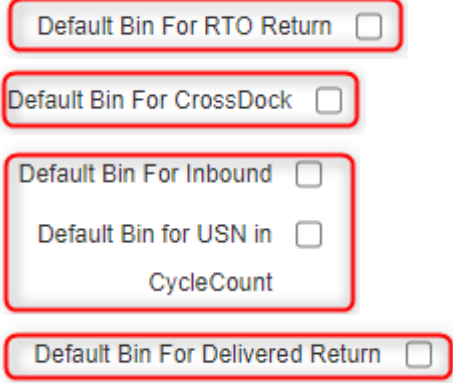

Action buttons



Action button	Description
Search	When the user clicks on the “search” button without entering any filter criterion, it will populate a list of all the Bins Created on default filter setting. User can further narrow down the search by using filter options on Bin enquiry screen to get any specific information.
Reset*	Reset button will refresh the filter fields to default settings, i.e., to an initial state to start fresh search.
Advance Search	Advance search further improves the search results of Bin enquiry by providing more fields to filter from. Below fields get added for the advance search option of the Bin.
Download	To download the filtered or searched result in CSV format which is displayed in the data grid.
Print	To print the filtered or searched results.
Add New	To add a new Bin to the system.

In “advance search,” we can further search the bin type using following fields:

Field	Snapshot	Details
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Bin Type		<p>“Bin type” option can be selected by the user as per its usage, functions and requirements while creating bins.</p> <p>As it is a mandatory field while creating bins, user can filter the search by selecting “Bin type” from the dropdown box.</p>
Qty		<p>User can search the bins by quantity. This feature is currently inactive.</p>
Default bins		<p>User can also check on any of these boxes to filter the current bins and get the default bin. Only a single bin can be a default bin.</p> <p>Note: Only one box can be clicked at a time. If the user clicks more than one box, then no data will be displayed.</p>
Aisle		<p>User can also filter the bins basis aisle.</p>

Important note: In advance search setting, User must “reset” the previous search before he applies next search. If the previous search is not cleared then, the system will not show any results.

How to setup a BINs?

The Bin or the storage bin is **the smallest available unit of space in a warehouse**. The storage bin therefore describes the position in the warehouse where the goods are or can be stored.

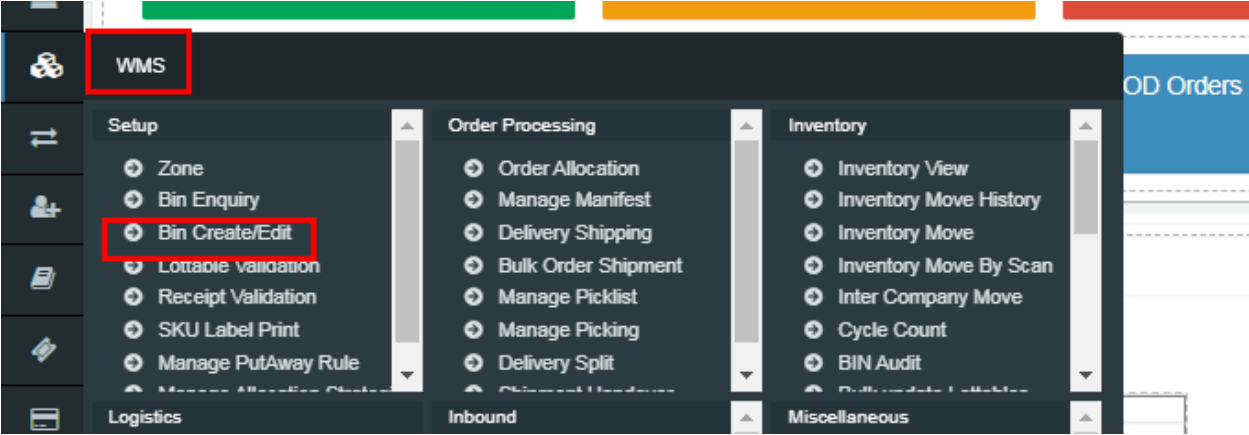
Objective:

The objective of this document is to give the details of the BIN part of the WMS module of our etail system. In this document, user will get to know how to setup a BINs in the system.

Bin Create/Edit Screen

This screen is used to create the bins in the system. What are the details can be capture, what can important tabs used while creating bin are discussed below.

Navigation: Vin eRetail screen>WMS>Setup> Bin Create/Edit.



WMS > Bin Create/Edit

Audit Save Reset Delete

Bin Details UDF

Site Location* JX Karawaci

BIN Flag* None

Zone* --- Select ---

Bin Location Type* --- Select ---

BIN Code*

Is Active Yes

Aisle

BIN Type* Normal

BIN Bucket* --- Select ---

Sequence No

Bin Coordinates

X Coordinate 0.000

Y Coordinate 0.000

Z Coordinate 0.000

Other Details

Commingle Item ☒

Commingle Lot ☒

Default Bin For Inbound ☐

Cube Capacity 0

Weight Capacity 0

Default Bin For Delivered ☐

Default Bin For RTO Return ☐

Default Bin For CrossDock ☐

Default Bin for USN in ☐

Length 0

Width 0

CycleCount

Loose LPN ☐

Approx. No Of Units 0

Height 0

Threshold Qty 0

The above mention screen will appear. Although user will find **some * fields** which are consider as mandatory fields and important to fill otherwise system will through an error to fill mandatory fields.

Bin Details

WMS > Bin Create/Edit

Audit Save Reset Delete

Bin Details UDF

Site Location* JX Karawaci

BIN Code*

BIN Type* Normal

BIN Flag* None

Is Active Yes

BIN Bucket* --- Select ---

Zone* --- Select ---

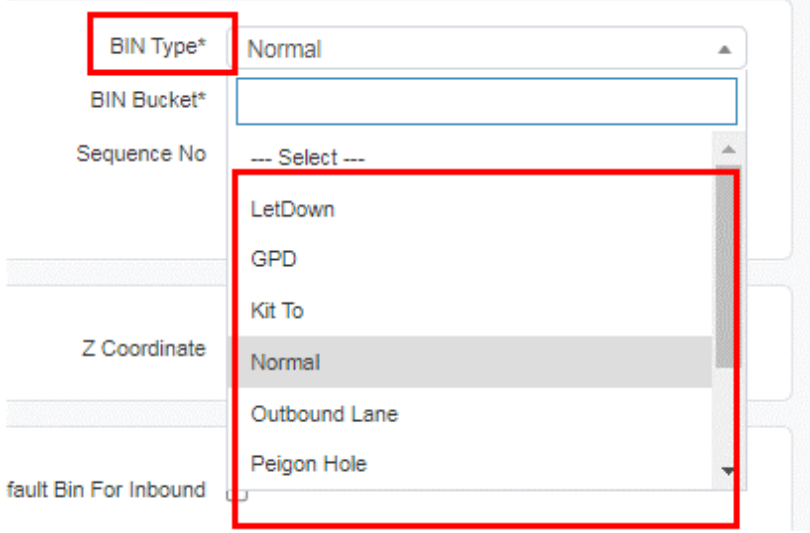
Aisle

Sequence No

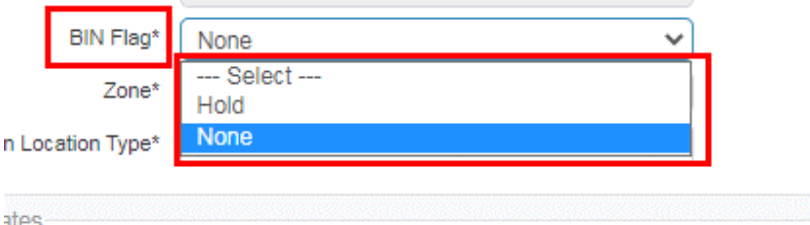
Bin Location Type* --- Select ---

Lets discuss the details of each tab-:

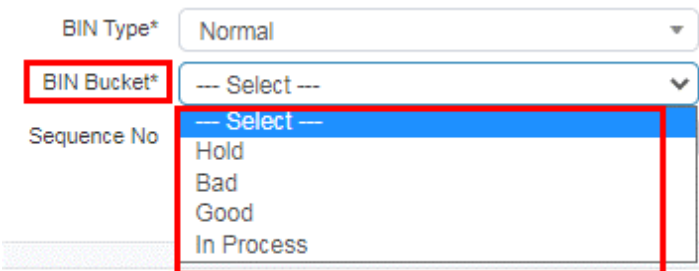
Fields	Fields Description
Site Location	Site location is the location or warehouse where the bin needs to get created.
BIN Code	Users need to give any specific code for the bin that is going to be created.

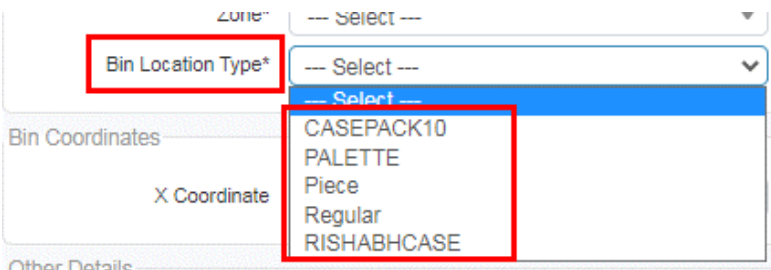
BIN Type	<p>Bin type tells that in what category that bin needs to be get created. The values come in drop down are hardcoded and this can be customized as per requirement.</p> 
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Normal	When there is no need to select any specific bin type, user can select as normal
Let down	Let down is used to move bulk products to the various individual item from where picking can be done
GPD	GPD is inbound sortation area if user is using LPN or palettes for inbounding
Kit to	Kit to bin would get created for the product like physical BOM (no. of products packed in single bundle)
Outbound Lane	If user is dealing in LPN, palettes in the system, the user can sort the inventory after packing to this outbound lane.
Pick to	Pick to bin is a bin where inventory could move after picking, for the packing purpose. It could also be defined at zone level as well
QC	QC is quality check where inventory could be kept after inbound qc.
Receiving	Receiving bin is used for inbound purpose (irrespective of inbound happened) before QC. The validation of inventory movement is performed from here. If inventory is there in receiving bin, then user would only able to move it through the process of putaway.

Fields	Fields Description
BIN Flag	<p>BIN Flag usually tells about the status of the bin. The value in this drop down is also hardcoded.</p> 

Fields	Fields Description
Is Active	As per need, user can mark any bin active or in active

BIN Bucket	Bin bucket usually used to segregate product in the basis of its criteria like saleable items stored in good bucket, defect items stored in bad and so on. The option in this drop down is hardcoded.
	

Fields	Fields Description
Zone	User will be choosing the “zone” from the drop list showing the already created zones for the Bins. Bins are linked with the zones while user creates them. With this field, user can filter the bins by selecting a zone.
Aisle	Aisle is a passage between the rows of bin created in the Bin. The aisle can be given a name so that bins can easily be located in warehouse on the basis of aisle.
Sequence No.	Field is given to add sequence number for reference
Bin location Type	<p>Basis on the storage location, Bin location can be selected as a palette, case, casepack, piece or regular etc. This field can be customized basis user requirements. The options showing in dropdown are hardcoded.</p> 

2. Bin Coordinates

Bin coordinates defines the size of the bin so that the user can restrict the allocation of products on the bins on the basis of dimensions define here.



Fields	Fields Description
X Coordinate	Defines the length of the bin
Y Coordinate	Defines the breadth of the bin
Z Coordinate	Defines the height of the bin

3. Other Details

Other Details

Commingle Item <input checked="" type="checkbox"/> 1	Commingle Lot <input checked="" type="checkbox"/> 2	Default Bin For Inbound <input type="checkbox"/> 3
Cube Capacity 0 4	Weight Capacity 0 5	Default Bin For Delivered Return <input type="checkbox"/> 6
Default Bin For RTO <input type="checkbox"/> 7	Default Bin For CrossDock <input type="checkbox"/> 8	Default Bin for USN in CycleCount <input type="checkbox"/> 9
Return Length 0 10	Width 0 11	Height 0 12
Loose LPN <input type="checkbox"/> 13	Approx. No Of Units 0 14	Threshold Qty 0 15

Fields	Fields Description
Commingle Item	When the commingle item box is marked check that means user can store different categories of item in single bin, similar if it is unchecked that means only single category of product can be kept in the bin.
Commingle Lot	We have total 7 kinds of lottable in the system. So when the commingle lot box is marked check that means product packed in this multiple category of lots can be stored in single bin where as if commingle lot box doesn't marked as check then that means product packed in single category of lot can kept in this particular bin.
Default Bin for Inbound	If user marked it as checked then that means while doing inbounding this bin will set as default bin in order to allocate inbounded quantity.
Cube Capacity	How product can be stored in a particular bin from size prespective
Weight Capacity	How product can be stored in a particular bin from weight prespective
Default Bin for Delivered Return	Whenever customers receive customer return against delivered return than in that case if here it is marked as checked, then this particular bin will get set as default bin in order to receive delivered return in the WH/system.
Default Bin for RTO Return	Whenever customers receive customer return against RTO return than in that case if here it is marked as checked, then this particular bin will get set as default bin in order to receive RTO return in the WH/system.
Default Bin for CrossDock	CrossDock is particularly an area outside the WH or can regard as the doorstep of the WH where transporter puts the product or stock which they bring to the WH. So here if it is marked as checked then that means whenever any goods came to the WH, this particular bin will set as default bin for those goods whose QC is yet to happen.
Default BIN for USN in Cycle Count	If this section is marked as checked then that means whenever cycle count happens in the WH on the basis of USN of SKUs then those goods or SKUs whose scanning is been missed will get automatically allocate to this bin.
Length	Here user can define the length of the product which they going to store in this bin
Width	Here user can define the width of the product which they going to store in this bin
Height	Here user can define the height of the product which they going to store in this bin
Loose LPN	While performing inbound against LPN, if the loose LPN is checked against any Bin, user will not able to move LPN in that particular bin.
Approx No. of units	Here capacity of the bin can be defined.

Threshold Qty

This threshold qty is generally used for BIN type letdown, when any qty is define in this tab, and when it goes down, then this will create a task in the system to allocate some qty in this bin.

The screenshot shows a form with the following fields and values:

- BIN Type***: Normal
- BIN Bucket***: (Empty)
- Sequence No**: --- Select ---
- Z Coordinate**: Normal

The **Threshold Qty** dropdown menu is open, showing the following options: LetDown, GPD, Kit To, Normal, and Outbound Lane.

Let's Have one demo on setting up a BIN in the system.

In the below mention snapshot, I have created 1 bin with Bin code MM, in which I have filled only mandatory fields like Bin Code, Bin Type, BIN Flag, BIN Bucket, Zone etc.

The screenshot shows the **Bin Create/Edit** form with the following details:

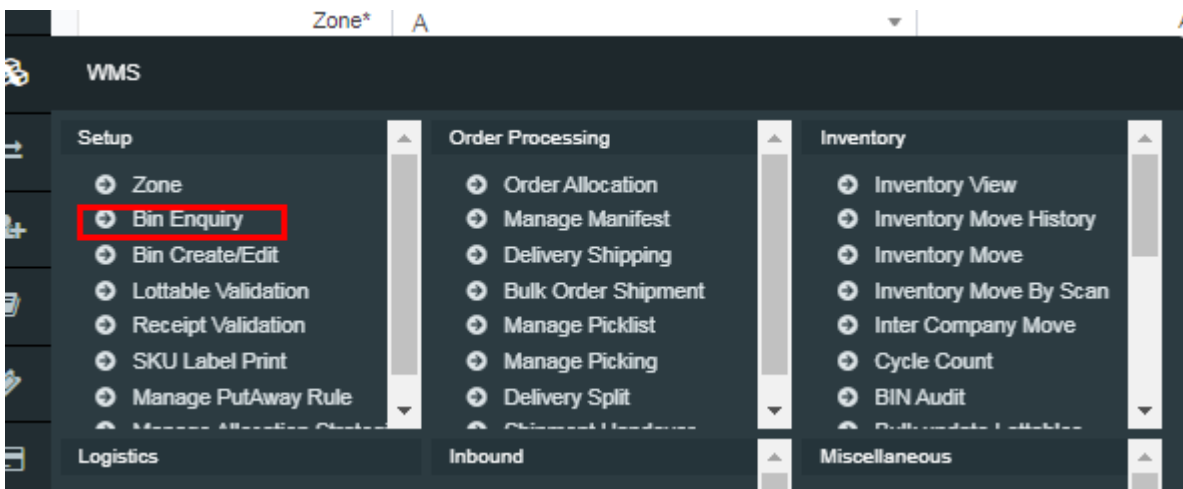
- Bin Details**:
 - Site Location*: JX Karawaci
 - BIN Code*: MM
 - BIN Type*: Normal
 - BIN Flag*: None
 - Is Active: Yes
 - BIN Bucket*: Good
 - Zone*: A
 - Aisle: (Empty)
 - Sequence No: (Empty)
 - Bin Location Type*: Regular
- Bin Coordinates**:
 - X Coordinate: 0.000
 - Y Coordinate: 0.000
 - Z Coordinate: 0.000
- Other Details**:
 - Commingle Item: ☒
 - Commingle Lot: ☒
 - Default Bin For Inbound: ☐
 - Cube Capacity: 0
 - Weight Capacity: 0
 - Default Bin For Delivered: ☐
 - Default Bin For RTO Return: ☐
 - Default Bin For CrossDock: ☐
 - Return: ☐
 - Length: 0
 - Width: 0
 - Default Bin for USN in: ☐
 - Loose LPN: ☐
 - Approx. No Of Units: 0
 - CycleCount: (Empty)
 - Height: 0
 - Threshold Qty: 0

After filling up all the details, click on the save button at right top corner, below message will appear,

The screenshot shows a notification message: **Bin Saved Successfully**. The background shows the **Bin Create/Edit** form with the **BIN Type*** dropdown set to **Normal**.

Now move to Bin enquiry screen

Navigation- WMS>> Setup >> Bin Enquiry



Now, in the Bin enquiry screen, search with the Bin code you have given

WMS > Setup > Bin Enquiry

Search [X] Reset [X] Advance Search [Download] [Print] [Add new]

Location	Bin Code	Zone	Bin Bucket	Bin Location Type	Approx. No Of Units	Bin Qty	Status	Commingle Lot	Commingle Item
UWH-JX Karawaci	MM	--- Select ---	--- Select ---	--- Select ---			Active		

The Bin you have created will appear on this screen.

WMS > Setup > Bin Enquiry

Search [X] Reset [X] Advance Search [Download] [Print] [Add new]

Location	Bin Code	Zone	Bin Bucket	Bin Location Type	Approx. No Of Units	Bin Qty	Status	Commingle Lot	Commingle Item
UWH-JX Karawaci	MM	--- Select ---	--- Select ---	--- Select ---			Active		
UWH	MM	A	Good	Regular	0	0	Active	true	true