**AM/NS Dispatch Planning Outbound POC Screen Level Requirements:**

1. **Configuration Screen:** 
   1. UI Changes:
      1. Above “Plant Wise Vehicle Type Configuration\*” Add, “Available Dispatch Modes” and it should be selected by default and non-editable, below modes should be visible under it **-- DONE**
         1. Vehicle – Selected by default and non-editable
         2. Rake
         3. Vessel
      2. “ODC Preferences” to be added under “Plant Wise Vehicle Type Configuration\*”  **-- DONE**
      3. If Rake is selected, “Plant Wise Rake Type Configuration\*” Menu should be displayed to user like in case of vehicle – Since Rake is selected, this should be selected by default and non-editable, Following Configurations can be shown under it
         1. Max No. of Rake Types : 2 (Default Value)
         2. Rake Wagon Wise Loading Capacity Min / Max Configuration Preferences
         3. Rake Wagon Wise Weight Min / Max Preferences
            1. Preferences By Material Type (probably this need to be added under Plant Wise Vehicle Type Configuration\* as well), if this is selected then “Material Type Configuration” mentioned “iv” to be auto selected
            2. No Material Criteria
         4. Min Load Preferences from Consignees / Dealers
         5. Consignees / Dealers Clubbing Limits
         6. Distance preferences
         7. Rake Type Priorities
         8. Rake Availability
            1. Availability By Rake Type
            2. Availability By Individual Rake
         9. ODC Preferences
      4. Same above configurations applies for **Vessels** as well with name replaced with Vessel
      5. Material Type Configuration to be added, following need to be shown under it  **-- DONE**
         1. Mode Wise Allowed Material Type Combination Load Preferences
         2. Mode Wise Allowed Material Type Dimension Preferences
         3. Plant Wise Dispatch Capacity Preferences
      6. Zone Mapping Configuration **-- DONE**
      7. “Route Preferences” to be changed to “Vehicle Route Preferences”  **-- DONE**
      8. Based on dispatch mode selection “Rake Route Preferences” & “Vessel Route Preferences” option should be displayed and can be selected by user
         1. They are NOT selected by default
   2. Based on above additions, we will select the configuration required for POC (Task on me)
2. **Pickup/Drop Locations screen**:
   1. Enable API Hits for address fetch unlike in POC’s done so far
   2. Reduce the Map portion and zoom to India wise locations
   3. Remove Both from Map, Add backdrop to Legend
   4. Probably we might need to add tabs for Railyards Master, Shipping Ports Master as tabs in this screen
3. **Vehicle Configurations screen:**
   1. Module name to be changed to “Carrier Configuration Screen”
   2. This screen has configuration screen-based display restrictions to be added, now that we have added multiple dispatch mode preferences, we have to add Tabs to this screen based on dispatch modes selection, based on default mode “Vehicle Type Configuration” with current details to be shown first and “Rake Type Configuration” & “Vessel Type Configuration” should be displayed according to respective mode selection
   3. Vehicle Type Configuration Tab
      1. Min Volume (CMT) to be changed to Min Volume (Tons)
      2. Max Volume (CMT) to be changed to Max Volume (Tons)
      3. Vehicle Min Weight (Kgs) to be changed to Vehicle Min Weight (Tons)
      4. Vehicle Max Weight (Kgs) to be changed to Vehicle Max Weight (Tons)
      5. Min Load Per Delivery (CMT) to be changed to Min Load Per Delivery (Tons)
      6. If “Preferences By Material Type” is selected for Vehicle Configuration in configuration, request material specific data from user. If user doesn’t specify any configuration, store default values w.r.t material type as min / max volume (tons) & min load per delivery (tons) data
         1. Add a button “Material Type Based Vehicle Config”, on click show side pane with title “Material Type Based Vehicle Config”
         2. Grid to be displayed with columns as “Material Type, Min Weight (Tons), Max Weight (Tons), Min Loading Quantity (Tons)”
         3. Grid to be displayed with all material types available (this should be fetched from material type config master)
   4. Rake Type Configuration Tab
      1. Same changes as in Vehicle Type Configuration Tab but naming conventions to be replace with Rake wherever required
      2. Add “No. of Wagons” field
      3. “Vehicle Dimensions (mm)” to be replaced with “Rake Wagon Dimensions (mm)”
      4. Total Rake Volume (mm) to be added
   5. Vessel Type Configuration Tab
      1. Same changes as in Rake Type Configuration Tab with apt fields but naming conventions to be replaced with Vessel wherever required
4. **Material Type Configurations Screen:**
   1. Material Type Master Tab
      1. This contains list of Material Types available w.r.t Plant
   2. Loading Combination Config
      1. This contains grid with “Mode, Material Type 1, Material Type 2, Material Type 3” if you have three material types and should dynamically increase the columns based on additions
      2. Each cell in data grid should be checkbox selection (if selected yes, else no)
      3. Example: Coil & Plate are allowed to combine while planning truck loads where as Pipes can’t be clubbed with other materials while planning a load. This should be translated into two rows,
         1. First row “Vehicle, Coil **Selected**, Plate **Selected**, Pipe **Not Selected**”
         2. Second row “Vehicle, Coil **Not Selected**, Plate **Not Selected**, Pipe **Selected**”
   3. Mode Wise Dimension Preferences
      1. This contains grid with “Mode, Material Type, Length, Width”
      2. Example: Rake containers cannot load materials which are having length >7000 MM & width >2000 MM, same should be configured material type wise, else we consider that there is no restriction
         1. Rake, Coil, 7000, 2000
         2. Rake, Plate, 7000, 2000
         3. Rake, Pipe, 7000, 2000
   4. Plant Wise Dispatch Capacity Preferences
      1. This contains grid with “Plant, Material Type, Dispatch Capacity (Tons)”, if not specified we will have to assume some big value as default value
5. **Material Configurations Screen:** JFYI, Data fields in this screen might change once UI is made ready
   1. I have provided Material master data format in the sheet I prepared
   2. “Dispatchable by Road (Y/N)”, “Dispatchable by Rake (Y/N)”, “Dispatchable by Vessel (Y/N)” columns should come dynamically based on selected dispatch modes in configuration
6. **Zone Mapping Configurations Screen:**
   1. Zone Master Tab: All zones w.r.t plant need to be added here
   2. This screen will contain grid with “Zone, Freight Belt, City, Delivery Accepted by Road ? (Y/N)” by default & “Delivery Accepted by Rake ? (Y/N)”, “Delivery Accepted by Vessel ? (Y/N)” should come based on dispatch mode selection in configuration screen
7. **Route Configurations Screen:**
   1. Current screen should be moved under Vehicle Route Preferences Tab
   2. If “Rake Route Preferences” & “Vessel Route Preferences” option are selected in configuration screen, then “Rake Route Preferences” & “Vessel Route Preferences” Tabs to be displayed with following grid and data addition options from screen via “Add Serving & Transit Data” button and bulk upload options
      1. Grid will contain Edit, Delete options and “Loading Yard, Destination Yard, Transit Time (Days), Distance (KMs)” columns
8. **Freight Configurations Screen:**
   1. Vehicle:
      1. Fixed Vehicle Cost
      2. Variable Vehicle Cost: This is not required for POC
      3. City Wise Vehicle Cost
   2. Rake:
      1. Fixed Vehicle Cost
      2. City Wise Vehicle Cost
   3. Vessel:
      1. Fixed Vehicle Cost
      2. City Wise Vehicle Cost