**Transporter Purchase order, Vehicle Master data, Loss calculation**

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# PROCESS FLOW – SAP B1 “TO-BE” FUEL PROCUREMENT PROCESS



# UDO

* Document Master

|  |
| --- |
| **Document Category** |
| Registration |
| Insurance |
| Permit |

* Truck Master data

|  |  |  |  |
| --- | --- | --- | --- |
| **Truck Reg No** |  | **Route** |  |
| **Trailor No** |  | **Driver Name** |  |
| **Owner** |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **Document Category** | **Valid From** | **Valid To** | **Attachment** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Technical Details

Document wise field details.

|  |  |  |
| --- | --- | --- |
| Doc Type | Field | Data Type and Source |
| PO | Transporter code (master data) | CFL - Show only transporter group from Supplier Master data |
| PO | Transporter name (master data) | Text - Update from supplier master data based on the above field |
| PO | Route (master data)- row | CFL - Cost Center |
| PO | Truck No | CFL - Vehicle Master Data |
| PO | Driver Name | CFL - |
| PO | Map Warehouse with delivery mode (Truck, Pipe) | Update Based on the warehouse Type |
| PO | Custom Points | Alphanumeric –Manual |
| PO | Chamber No -row | Numeric –Manual |
| PO | LC Details | Alphanumeric -Manual |
| PO | Loading points: - Ship To Address | Alphanumeric -Manual |
| GRN | Temperature -R | Quantity -Manual |
| GRN | Density –R | Quantity -Manual |
| GRN | Dip- R | Alphanumeric -Manual |
|  |  |  |

# Implementation Note

1. **Create Vehicle Registration Document – Provide one UDO**

Field mapping: -

* + 1. Truck Reg no 🡪 Text box
    2. Trailor No🡪 Text box
    3. Owner🡪 Text box
    4. Route🡪CFL(provide extra form to update multiple route against specified vehicles)
    5. Driver Name🡪 Text box
    6. Document Category🡪 Drop Down (Master data Document category)
    7. Valid From🡪 date
    8. Valid To🡪 date
    9. Attachment🡪 document attach option

1. **Create Transporter’s Purchase Order – Use Item Purchase order document**

Field mapping: -

* + 1. BP code 🡪 Fuel PDO’s(PO) transporter code
    2. Date 🡪 Fuel PDO’s Date
    3. Reference No🡪 Fuel PDO’s DOC No
    4. Branch🡪 as per Fuel PDO
    5. Item No🡪 transportation cost (Item Name)
    6. Quantity🡪 as per Fuel PDO
    7. Price🡪 transporter’s blanket agreement
    8. Cost center and project🡪 as per Fuel PDO
    9. Bill to Address🡪 as per Transporter master data
    10. Ship to Address🡪 as per Fuel PDO
    11. Payment Terms🡪 as per Transporter master data
    12. Truck No🡪 as per Fuel PDO
    13. Driver Name🡪 as per Fuel PDO

**Validation**

* + Transporter’s PO should have to use only those truck that is attached with that branch.
  + the validation of Vehicle (Queuing procedure, Renewal, Ep Code, Explosive Certification, Age of Vehicle, route permit) is verified. Create Truck master data to update all above details
  + Validate chamber capacity with PDO quantity.
  + Validate all field as mention in point 1

1. **It will send information for IOC integration. (Hold)**

We are waiting for details requirement from NOC

1. **Chamber Loss - -formula**

**Note:- we are updating below information in row wise, so please calculate all value row wise only.**

calculate claimable loss based on the below details.

1. Loaded Qty, Received qty in tank.
2. Calculate total chamber loss
3. **Transportation Temp Loss - Use Goods Issue document**

calculate temp loss based on the below details.

1. Chamber capacity (Pick from truck master data UDO)
2. PF (create one UDT to update PF factor)
3. Temp difference between loading (Fuel GRN) and offloading points (Stock Transfer from GIT to Tank)
4. Create **Goods Issue note** to adjust quantity in SAPB1 and tag as a **Transportation temp loss**.
5. Update PDO no, IOC challan no and date.
6. Branch, date as same as the Fuel PDO no.
7. Item code, warehouse, chamber, density, temperature, dip, project and cost center as same as inventory transfer (GIT to main tank).
8. Quantity as per **temp loss formula**
9. **Claimable Loss - -formula**

calculate claimable loss based on the below details.

1. Loaded Qty, Received qty in tank.
2. Calculate total chamber loss

Claimable Loss =Chamber Loss- Transport Temp loss

1. Exclude **Transportation temp loss** quantity from chamber loss.
2. In case any claimable loss arises, create VAT **A/R Sales Invoice** against the quantity of claimable loss at existing Retail Sale Price.
3. Update PDO no, IOC challan no and date.
4. Branch, date as same as the Fuel PDO no.
5. Item code, warehouse, chamber, density, temperature, dip, project and cost center as same as inventory transfer (GIT to main tank).
6. Update IOC challan no and date.
7. Quantity as per **Claimable loss formula**
8. **Tank Temp Loss - Use Goods Issue document**

calculate temp loss based on the below details.

1. If we received in our warehouse and goods receive type is decant then only follow below process
2. Chamber capacity (Pick from tank master data UDO)
3. PF (create one UDT to update PF factor)
4. Temp difference between Outside and Tank Temp.
5. Create **Goods Issue note** to adjust quantity in SAPB1 and tag as a **Tank temp loss**.
6. Update PDO no, IOC challan no and date.
7. Branch, date as same as the Fuel PDO no.
8. Item code, warehouse, chamber, density, temperature, dip, project and cost center as same as inventory transfer (GIT to main tank).
9. Quantity as per **Tank** **temp loss formula**
10. **A/R Sales Invoice - Use A/R Sales invoice document**

In case any claimable loss arises, create VAT **A/R Sales Invoice** against the quantity of claimable loss at existing Retail Sale Price.

Create Transporter A/R Sales Invoice and pick information as mention below

* + BP Name🡪 update from Customer Master data’s Transporter code field.
  + Date🡪 Service GRN
  + Reference number🡪 IOC challan no
  + IOC date🡪IOC date
  + PDO No--> Fuel’s PDO No
  + Quantity 🡪Claimable Loss
  + Price🡪Sales Retail Price
  + Cost center🡪 as per Service Purchase order
  + Project🡪 as per Service Purchase order

1. **Service GRN - Use Item GRPO document**
   * Warehouse 🡪 GIT as per branch
   * Vendor Ref. No.-->IOC challan no
   * IOC challan date (extra field)🡪 IOC challan date
   * Price🡪as per service PO document
   * Temp 🡪 as per Fuel GRN
   * Density 🡪 as per Fuel GRN
   * Dip🡪 as per Fuel GRN

All other information update from service PO.