**Technical Document for Transfer**

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

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# **UDO**

1. **Applicable charges.**

|  |  |  |
| --- | --- | --- |
| **Code** | **Landed Cost Name** | **Credit Account Code** |
| 1 | Transport Charges |  |
| 2 | Insurance |  |
|  |  |  |
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1. **Inventory Transfer Request**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Inventory Transfer Request** | |  |  |  |  |  |
|  |  |  |  |  |  |  | Number |  |
|  |  |  |  |  |  |  | Series |  |
|  |  |  |  |  |  |  | Posting Date |  |
|  |  |  |  |  |  |  | Document Date |  |
| Route |  |  |  |  |  |  | From Branch |  |
|  |  |  |  |  |  |  | From Warehouse |  |
|  |  |  |  |  |  |  | To Branch |  |
|  |  |  |  |  |  |  | To Warehouse |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Item Code** | **Item Name** | **From Warehouse** | **To Warehouse** | **Quantity** | **UOM** | **UOM Group** | **Temp** | **Density** |
|  |  |  |  |  |  |  |  |  |
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| Remarks |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Add/Update | Cancel |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

1. **Inventory Transfer**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Inventory Transfer** |  |  |  |  |  |  |  |
| Transporter Code |  |  |  |  |  |  |  | Number |  |
| Transporter Name |  |  |  |  |  |  |  | Series |  |
| Truck No |  |  |  |  |  |  |  | Posting Date |  |
| Driver Name |  |  |  |  |  |  |  | Document Date |  |
| Route |  |  |  |  |  |  |  | From Branch |  |
| Inventory Transfer Type | Decant/  Divert |  |  |  |  |  |  | From Warehouse |  |
|  |  |  |  |  |  |  |  | To Branch |  |
|  |  |  |  |  |  |  |  | To Warehouse |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Item Code** | **Item Name** | **From Warehouse** | **To Warehouse** | **Temp** | **Density** | **Dip** | **Quantity** | **UOM** | **UOM Group** |
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| Remarks |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Add/Update | Cancel |  |  |  |  |  |  |  | Copy From Inv Tra Req |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Inventory Transfer | |  |  |  |  |  |
| Transporter Code |  |  |  |  |  |  | Number |  |
| Transporter Name |  |  |  |  |  |  | Series |  |
| Truck No |  |  |  |  |  |  | Posting Date |  |
| Driver Name |  |  |  |  |  |  | Document Date |  |
| Route |  |  |  |  |  |  | From Branch |  |
|  |  |  |  |  |  |  | From Warehouse |  |
|  |  |  |  |  |  |  | To Branch |  |
|  |  |  |  |  |  |  | To Warehouse |  |
|  |  |  |  |  |  |  |  |  |
| Document Category | Quantity | Unit Price | Total |  |  |  |  |  |
| Transport Charges |  |  |  |  |  |  |  |  |
| Insurance |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |
| Add/Update | Cancel |  |  |  |  |  |  | Copy From Inventory Transfer Request /Inventory Transfer |

# **Technical Details**

|  |  |
| --- | --- |
| Transporter Code | CFL - Show only transporter group from Supplier Master data |
| Transporter Name | Text - Update from supplier master data based on the above field |
| Truck No | CFL - Vehicle Master Data |
| Driver Name | CFL - |
| Route | CFL - Cost Center |
| Number | Document number |
| Series | Document Series |
| Posting Date | Date |
| Document Date | Date |
| From Branch | CFL - branch master |
| From Warehouse | CFL - warehouse master |
| To Branch | CFL - branch master |
| To Warehouse | CFL - warehouse master |
| Item Code | CFL - Item Master Code but populate item code, name and qty in select list |
| Item Name | Text - Update from item master data based on the above field |
| From Warehouse | Text - Update from header |
| To Warehouse | Text - Update from header |
| Quantity | Text - Quantity |
| UOM | Disabled |
| UOM Group | CFL - UOM Group as per item master data |
| Temp | Text - Quantity |
| Density | Text - Quantity |
| Chamber No | Text - Quantity |
| Dip | Text - Quantity |
| BaseDocEntry |  |
| BaseDocNo |  |
| BaseLine |  |

# **Implementation Note**

1. **Applicable charges – Provide UDO**

Field mapping: -

* + 1. Landed Cost Name 🡪 Text box
    2. Account code Credit🡪 CFL(Chart of account)

1. **Inventory Transfer Request– Provide UDO**

* **Explained all field type in Technical Details**

1. **Inventory Transfer– Provide UDO**

* **Explained all field type in Technical Details**

Note: -

* 1. Create one extra tab for landed cost update
  2. Create field in the landed cost **tab** and all field mentioned “applicable charges”
  3. Crate one **tab** for update QC parameter details.
  4. Create one **tab** for attachments
  5. If (from Branch and to Branch) and (from Location and to location) is same then Add **inventory transfer** document in SAPB1
  6. If (from Branch and to Branch) and (from Location and to location) is different then Add **goods issue and goods receipt** document in SAPB1.
     1. If no extra cost incurs then item cost should be the same in goods issue and goods receipt document.
     2. If item incurs extra cost, then item cost of the goods receipt should be the goods issue item cost and Landed cost value as updated in the landed cost tab.

GR=GI + Landed cost

* 1. System should have to post **JE** for extra cost.
     1. Debit – offset account (pick credit account from the goods issue document)
     2. Credit – Landed cost account as per the applicable **charges UDT**

|  |  |  |
| --- | --- | --- |
| **Account** | **Debit** | **Credit** |
| offset account | 100 |  |
| Landed cost account |  | 100 |

* 1. Calculate Temp loss in both cases based on the formula and post goods issue in SAPB1 as temp loss.
  2. If temp loss is greater than allowable loss, then system should have to post A/R sales invoice for transporter. (explained in loss calculation document and procurement process)

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. **Chamber Loss - -formula**

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 (Stock Transfer from Tank to GIT) 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. Chamber capacity (Pick from tank master data UDO)
2. PF (create one UDT to update PF factor)
3. Temp difference between Outside and Tank Temp.
4. Create **Goods Issue note** to adjust quantity in SAPB1 and tag as a **Tank 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 **Tank** **temp loss formula**
9. **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.-->Inventory transfer no
   * Challan date (extra field)🡪 Challan date
   * Price🡪as per service PO document
   * Temp 🡪 as per Fuel Inventory transfer
   * Density 🡪 as per Fuel Inventory transfer
   * Dip🡪 as per Fuel Inventory transfer

All other information update from service PO.