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# What is EMR Reconciliation ??

LPG Cylinders and Pressure Regulators are Capital Assets of the Corporation and these equipments are issued to LPG Distributors for carrying out the business on our behalf with customers. In other words LPG distributors are custodians of our Equipment and the equipment issued to distributors to be reconciled periodically to account the equipment issued to distributors and recover penalty in case of misuse/shortage of equipment.

LPG distributors will prepare an EMR (Equipment Movement Return) on monthly basis and forwards to Area Office. EMR report contains the details of Opening Stock, Equipment Received from IOCL by way of AC4(Invoice)/Customers through TV(Termination Voucher) and equipment issued to Customers through SV (Subscription Voucher) and returned to Plants by way of ERV(Equipment Return Voucher).

Earlier, EMR (Equipment Movement Return) Reconciliation was being done manually by Area Office finance Representatives with the following data:

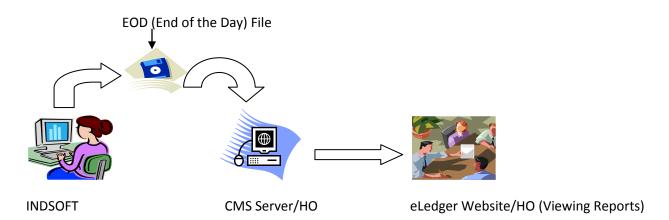
- a) EMR and its annexures-SV/TV/AC4/ERV from LPG Distributors
- b) LPG17 detailed list of AC4/ERV issued to/Receipt from distributors received from LPG Plants.

This exercise involves physical verification of each and every document and calculating the issues/receipt of Equipment by Distributor and arriving the closing book balance of equipment at Distributor end.

# Implementation of INDSOFT, CMS & eLedger

Indsoft an Inhouse Software Package developed by our Systems Group is implemented at all the LPG Distributors by LPG Department. This software is being used by all LPG distributors for day to day activities of LPG distributorship and distributor will send an EOD (End of the Day operation) file to Central Management System Server at Head Office Systems. Indsoft data of all the LPG distributors is being received at CMS Server and various reports are generated out of this Indsoft data and all the reports are hosted in eLedger website.

### The process is as follows:



# Introduction of EMR Reconciliation program through SAP

In order to discontinue the Manual EMR Reconciliation system and integrate the EMR reconciliation process with SAP using the Indsoft Data, HO-LPG, Finance and IS with the help of CO-IS Manthan developed an EMR Reconciliation program through SAP. EMR Reconciliation through SAP has FOUR Parts:

- a) AC4 & ERV Reconciliation -The AC4 issued by plant and received by Distributor & ERV prepared by distributor and received by plant are reconciled.
- b) Arriving In transit quantities (Plant to Distributor and Distributor to Plant) On completion of part (a) above, the SAP gives the intransit quantities.
- c) SV/TV transaction balances and Godown Balances -The SV/TV transactions(No.of Cylinders) and Godown balances of Distributor(No.of Cylinders) of Indsoft to be uploaded to SAP.
- d) Generation of EMR through SAP.

The summarised process of EMR reconciliation through SAP is as follows;

- 1) All the Distributors upload the EOD data to CMS Server
- 2) Area Offices to ensure 100% Data Availability of all the distributors in CMS and initiate action for 100% data
- Area Offices to provide Opening Balances of all equipments and Opening Intransit quanties (AC4 & ERV) of all the distributors to CO-IS Manthan for one time uploading as the Distributor Opening balances/intransit are not maintained in SAP.
- 4) Download the AC4&ERV data from CMS and upload to SAP through T.Code YVC503
- 5) Check and clear the Validation Errors and unconnected ERV errors in SAP
- 6) Download the SVTV Data from CMS and Upload to SAP through T.code YVC504
- Generate EMR report through SAP using T.Code YVR432
- Pass necessary entries in SAP for shortages using T.Code MIGO

# **Detailed process of EMR Reconciliation**

# <u>INDSOFT</u>

## **Indsoft Data Upload by Distributors.**

Distributors after close of operations at the end of the day generates an EOD (End of the Day) file and send it to CMS(Central Management System) Server at Head Office(HO) on daily basis through Internet. Wherever Internet facility is not available the EOD file is being sent through cyber café by copying into Pen drive/CD etc. Alternatively Area Office is collecting the EOD files from Distributors where internet connectivity is not available (eg.Army Distributors, Project Distributors) and uploading from Area Office through Intranet.

# **Data receipt and upload process**

EOD file is received at a designated server kept at Head Office-IS department. On receipt of the EOD file, it will be subjected for certain validation checks viz., date format, empty files, incomplete files etc. The EOD files which pass through the Validation checks will be processed and uploaded to CMS server.

# Reports through eLedger website

Various reports generated out of the Indsoft Data and are hosted in eLedger Website which can be accessed by all Officers through Intranet and Internet. The eledger website can be accessed through the following links

http://www.eldger.indianoil.co.in (through internet)

http://10.146.64.68/ioconline (through Intranet)

Username will be **EC number** of the officer and initial <u>password</u> is <u>password</u>. In case the user forgets the password the same can be obtained through lotus notes email id by clicking "forgot Password" icon on the login screen.

### **Data receipt and Upload verification Reports in CMS**

Reports are available under eLedger/CMSLPG for checking the status of the Indsoft EOD Files in CMS. The following two Reports shows the status of file receipt and data availability in CMS which are primary reports for EMR reconciliation process to ascertain the Data availability in CMS.

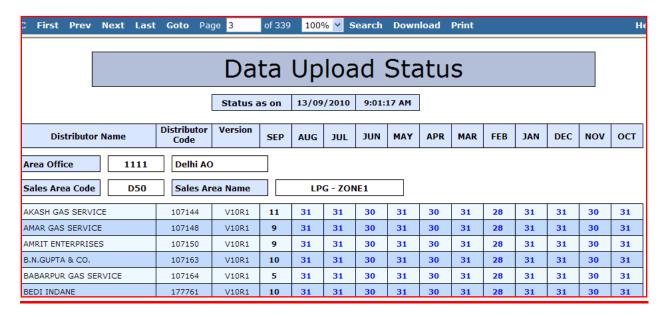
- File Receipt Status: This report shows the Distributorwise no.of EOD files received on daily basis.
- Data Upload Status: This report shows the Date upto which the Data available in CMSLPG server each distributors for the past 12 months.

Area Offices to check the above reports and ensure data upload by Distributors on daily basis.

### **Important**

Data upload by all the Distributors for the Month reconciliation is a prerequisite for EMR Reconciliation.

- a) The following report shows the monthwise dates upto which the data is available in CMS.
- b) Area Offices by 3<sup>rd</sup> of every month shall check the following report and verify the date of data availability.
- c) In case of any distributor data shows less than the last date of month, action to be initiated to get the EOD file of the distributor to CMS.
- d) In case data gaps are observed in more than one month, Integrated EOD file should be obtained



#### **CMSLPG**

# **Accessing by Area Offices**

CMSLPG is a website developed and hosted by HO-IS Department which is receiving, processing, storing and displaying the data of Indsoft received by way of EOD files in CMS Server.

CMSLPG is accessible through Intranet and Internet.

### **Accessing through Intranet**

Login in to HO-Intranet (http://10.146.64.55/intranet)

### Click on "Xtrainfo"



Login with Employee Code as Login Id and initial Password as password and change after initial login.

Note: All the officers are provided with login id with Employee code as Login id. Password can be obtained from State IS department.



### **Click on LPG Distributors**



Various Reports are available under different categories.

### **Eg Data Receipt status Checking**



### Eg.indsoft Downloads for EMR Reconciliation



### Accessing through Internet

Login to <a href="http://www.indianoil.co.in">http://www.indianoil.co.in</a> → Login ID and Password as mentioned above.

### Select Eledger Option



All other Options as shown above.

# **III Indsoft Data for EMR Reconciliation**

EMR Reconciliation of Equipment will be carried out in SAP using the Indsoft Data available in CMSLPG.

The Following formats are required for carrying out EMR Reconciliation with SAP:.

- a. Distributor Godown Opening Balances Onetime Upload by Manthan
- b. Distributor/SAP Opening Intransit entries Onetime upload by Manthan
- c. AC4/ERV Data Monthly Upload by Area offices
- d. SV/TV data Monthly Upload by Area Offices

The above data is made available in CMSLPG under "Downloads" in the form of Text Files without headings. The following formats may be referred for corresponding headings and the logic for each column of Data.

## a) .Distributor Godown Opening Balances: Upload format

This Field will alwa ys have indic ator "U"; UPL OAD	SAP Customer Code. This Customer Code will be of 10 character length with leading zeroes.	MATERIAL NO.  SAP Naterial Code for cylinder. This field is of 10 character length with leading zeroes.	YYCL OSING This is the Closing Stock of Godown of the Material for the month precedin g Go Live Month. Quantity Unit is in each	YYIN TRA NSIT This is the InTran sit Quant ity both from and to the Diutsr ibutor.	YYCUS TTODA TE This is the closing figure of thetotal number of customer s with the Distributo r for this Material for the month preceding Go Live Month	with the CUSTOMER for this Material for the month preceding Go Live Month	YYOPN NDOM This is the closing figure of the total number of cylinders( 14.2 NONDOM ) with the CUSTOME R for this Material for the month preceding Go Live Month	MO NT H Mont h prec edin g Go Live Mont h	YEA R Year of the mont h in colu mn "J"
U	0000111974	0838900104	100	0	0	0	0	1	2010
U	0000111974	0838903004	150	0	0	0	0	1	2010
U	0000111974	0838900054	200	0	0	0	0	1	2010
U	0000111974	0838911014	250	0	0	0	0	1	2010

Area Offices to download the "EMR Closing Balances Download" from CMSLPG and check the data values with Indsoft EMR and forward to Manthan for upload to SAP. Wherever data mismatch is found, the same has to be corrected in the Downloaded Text file before sending to Manthan. The distributor codes of the Mismatch figures to be sent to HO-IS to cross check with CMSLPG data.

Note: This will be Uploaded by Manthan on One time Basis

## b) .AC4/ERV Data - Download Format

AC4_ERV FORMAT							
DIST CODE	DOC TYPE	DOCUMENT NO	DATE	RECEIPT DATE (FOR AC4)	MAT NO	QTY	REF DOC NO (FOR ERV)
SAP Cuistomer Code of the Duistributor. This is a 10 character field prefixed with zeroes	Indicator AC4 - For Billing Documents made from SAP ERV - For ERVs made by Distributor	For AC4 it is the SAP Billing Document number of 6 series For ERV it is the ERV number as given by the distributor.	For AC4, it is the SAP Billing Document Date For ERV, it is the ERV date.	For AC4, it is the receipt date of the AC4 at the distributor end. For ERV, this field should be kept blank	SAP Material Code. This is 10 character field prefixed with zeroes	Quantity of cylinders in the AC4 or ERV	For AC4, it is to be kept blank For ERV, it is the forward SAP Billing Document number (6*) against which the ERV was made This is 10 character field prefixed with zeroes
0000111974	AC4	0607716951	20060823	20060824	0838900104	306	
0000112134	AC4	0607716952	20060823	20060824	0838900104	306	
0000112136	AC4	0607716956	20060823	20060824	0838900104	306	
0000112127	AC4	0607716959	20060823	20060831	0838900104	306	
0000112127	ERV	0000001111	20060831		0838900104	306	0607716959

Area Offices to download the data from CMSLPG through "AC4\_ERV Download" and upload to SAP through T.Code YVC503.

Note: This Format has to be uploaded by Area Offices on Monthly Basis. Before uploading ensure all the distributors data is uploaded to CMSLPG by cross checking with "Data Upload Status" report. In case of any missing data, advise distributor to upload the EOD file of the month.

## c) SV/TV Data - Download Format

Please refer the enclosed Excel sheet for the format. This download contains the number of cylinders issued against SV/Received against TV, Godown balance, pending installation etc.

Area Offices to download the data from CMSLPG through "SVTV Download" and upload to SAP through T.Code YVC504.

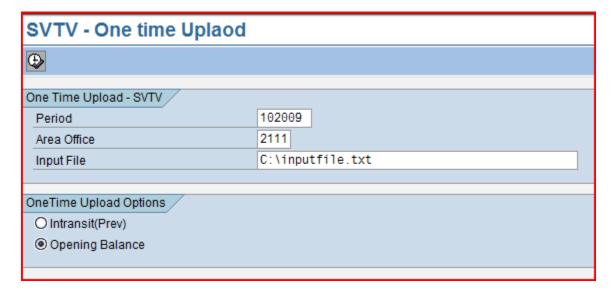
3 1 7 2	PLANT
00 00 11 21 36	C US TO M ER C O DE This is the SA P C o de of thr Disb trib utto r This is 10 ch ara cte r field d pre fix ed with h zero s
08 38 90 01 04	M AT N O
4	S > C y N o s F otal n u m b er o c y in d er s is s u e d th E s > s
1	TVC yn o s T otal n u m b er of c yl in d er s re c ei v e d th ru TV s
1	T S V C yl s N o s T ot al n u m b er of c yl in d er s is s u e d th r u T S V s
1	TTVCyNos Total number of cylinder seeceived thruTTVs
0	V R F E E To talanum be r of cylinder siss sed agains t free replace men t
0	VR SR EP LA CE Tot al nu mb er of cyli nde rs iss ued aga inst Cos t Rec ove ry
0	SV CU ST NO S Nu mb er of cus to me rs inc rea sed du e to SV s. I.e. nu mb er of SV s iss ue d
0	TV CU ST NO S  Tot al nu mb er of cus to me red uce d du e to TV s I.e nu mb er of TV s iss ue d
0	TS VC US TN OS  Tot al nu mb er of cus tom ers incr eas ed due to rec eipt of TSV s I.e nu mb er of TSV s rec eive d
0	TT VC US TN OS Tot al nu mb er of cus tom ers red duce to iss ue of TTV s.i.e nu mb er of TTV s rec eiv ed
0	SV ND O M1 4.2 Number of cus to me rs ( NO ND M1 14.2 ) inc rea sed due to SV s Le. number of SV s iss ued
0	TVNDOM 14.2 Total number of customers(NONDOM 14.2) reduced due to TVs. i.e. number of TVs is sued
0	T S V N D O M 14.2  To tall nu m be r of cu st o m er (s N O N D O M 14.2) in cr ea e d du e to re cei pt of T Vs Le nu m be r of T S Vs re cei ve d
0	T T V N D O M 14.2  To tal nu m be r of cust o m er (s N O N D O M 14.2) reduce d du e to issue of T Vs e.i.e. u m be r of T Vs re cive d
0	neg
0	A M O U N T2 T2 Iglect th
0	is colu
0	mn
20 10 02	Y Y Y Y M MYEARAD M ONTH) of ta ns ta io ns
100	GOD OW NBA LAN CE his EMR for the mont h in colu mn V
	Pe in g in st all atti on No coff cyll inders no t mo ve d ou t of distributor go down ev e aft er preparation of SV (pe ndi ngins tall attin)

Note: This Format has to be uploaded by Area Offices on Monthly Basis. Before uploading ensure all the distributors data is uploaded to CMSLPG by cross checking with "Data Upload Status" report. In case of any missing data, advise distributor to upload the EOD file of the month.

# **IV Activites by CO-IS Manthan – Opening Balances**

### A) <u>Upload of Opening balance & Opening Intransit</u>

- Customer / Materialwise Closing Balance of the month previous to the Go Live month uploaded in SAP by Manthan.
- o TCode SA38
- o Program Name YVBIR90\_ONETIME\_UPLOAD. If the Go Live month is November 2009, then give period as 102009.
- Give the Area Office Code for which reconciliation is taking place
- Select the input file which must be in the proper format.
- Select the Radio Button "Opening Balance"
- Press F8 or Execute Button to upload the opening stock
- Screen Shot attached.



### This will be Done by Manthan

Area Offices shall verify the uploaded Opening balances and intransit quantities and incase of any variations observed the same shall be forwarded to HO-IS for retification/reupload.

# **ACTIVITIES BY AREA OFFICE**

There are two activities by Area Offices.

- a) Download AC4/ERV details from CMS and Upload to SAP
- b) Download SV/TV details from CMS and upload to SAP

Process is as follows

### Step-1

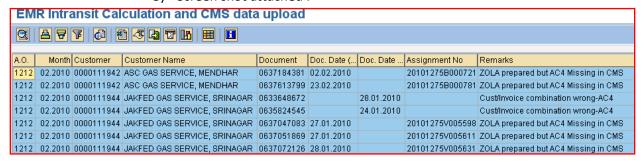
### A) Upload of AC4 / ERV File

- TCode YVC503
- If the Go Live month is November 2009, then period will be 11.2009
- Give the Area Office Code for which reconciliation is taking place
- In "Input File", select the AC4/ERV text file downloaded from CMS.
- Press F8 or Execute Button to upload the AC4/ERV File.
- Screen Shot attached.

#### Step-2

Validation Err After the file has been uploaded, click on the "Validation Error" button to get a list of the validation errors which the program has detected. They can be :-

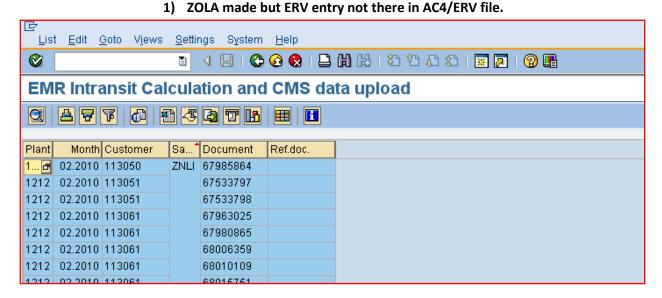
- 1) Wrong Billing Document Number (AC4)
- 2) Wrong Customer Code
- 3) Wrong Billing Document (AC4) number against ERV
- 4) ZOLA made but AC4 entry not there in AC4/ERV file.
- 5) Screen shot attached:-



Correct the entries in the upload file by checking with the distributor EMR and reupload the file as in step-1. There should not be any validation errors.

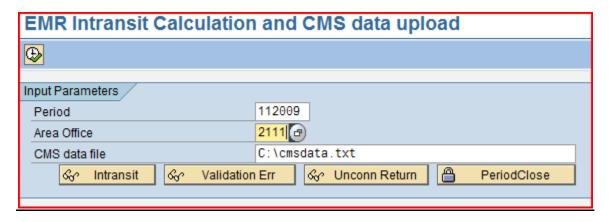
### Step-3

The next step is to look at the Unconnected Return by clicking on the Unconn Return button. They can be :-



These entries are mainly Defective Pressure Regulators sent by Distributors to LPG Plants which are entered in SAP as unconnected ERV (ZNLI). In case there is any difference between Distributor ERV number and Plant acknowledge ERV no or distributor sent qty. and plant acknowledged qty. the same will be shown in "Unconnected ERV". These entries to be verified case by case and correct the values in upload file and carry out the Step No.1

### Step-4



80 Intransit After the file has been uploaded, click on the button, to see the loads which are in transit for the month closing. Verify the data and if any discrepancies are there, make corrections in the AC4/ERV CMS file and upload it again to get a fresh list of InTransits. Screen shot attached:

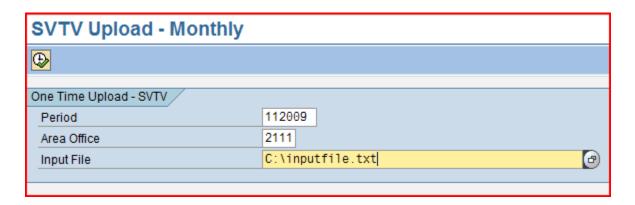
EM	EMR Intransit Calculation and CMS data upload							
<b>Q</b>								
						_		
Plant	Plant Month Customer Material Quantity Document							
2 🗗	11.2009	124427	AC4	433113188	13.11.2009	0838911014	150.000	
2111	11.2009	124427	AC4	635899318	28.11.2009	0838900104	306.000	
2111	11.2009	124427	AC4	635904555	28.11.2009	0838900104	306.000	
2111	11.2009	137620	AC4	635910528	30.11.2009	0838900104	306.000	
2111	11.2009	137620	AC4	635931653	30.11.2009	0838900104	198.000	
2111	11.2009	137620	AC4	635931653	30.11.2009	0838903004	72.000	
2111	11.2009	137620	AC4	635933130	30.11.2009	0838900104	306.000	
2111	11.2009	140346	AC4	635917250	30.11.2009	0838900104	270.000	
2111	11.2009	140346	AC4	635917250	30.11.2009	0838903004	24.000	
2111	11.2009	140346	ERV	91403460000467	31.10.2009	0838900104	270.000	635348704
2111	11.2009	140346	ERV	91403460000467	31.10.2009	0838903004	24.000	635348704
2111	11.2009	140346	ERV	91403460000468	31.10.2009	0838900104	306.000	635349852

# Possible Errors and Reason - EMR Reconciliation in SAP

SI.No.	Types of Error	Reason for error & Solution
1	Cust/Ref Doc. Combination Wrong – ERV	Wrong punching of AC4 No. By Dist. In Indsoft
2	ZOLA Prepared AC-4 missing in CMS	Wrong punching of AC4 No. By dist. In Indsoft
		or Distributor data not available in CMS
3	Cust/invoice Combination wrong – AC4	Wrong punching of AC4 No. By Dist. In Indsoft
4	ZOLA Prepared AC-4 missing in CMS	To check Integrated EOD file updated in CMS
		i.e. Distributor not sent data to CMS
		Solution: Correct the AC4 number in the
		ac4/erv text file and upload again.
		For Data availability please check Data upload
		status report and if the data not available,
		please get the EOD file uploaded to CMS by
		Distributors.
5	ZNLI error for Unconnected ERV	This normally happens for PR (defective) sent
	(Appears in unconnected ERV Tab)	back to Plant. This error normally occurs
		a) when Plant not enters correct ERV
		number in Sales order
		Solution: Correct the ERV number in Sales
		order through VA02 and Save or request
		the plant to correct the ERV number.
		b) Combining multiple ERVs sent by
		distributor in One Sales order instead of individual sales orders.
		Solution: Since quantity entered in SAP can not be changed after two months, modify
		the quantity in ac4/erv text file by
		combining multiple ERVs as is done by
		plant.
		c) Discrepancy in the quantity sent by
		distributor and entered in sales order
		by plant.
		Solution : Take up the matter with Plant
		and get the same corrected by plant and
		accordingly modify the ac4/erv file.
		1 1 1 2 1 3 1 1 3 1 3 1 3 1 3 1 3 1 3 1
6	MIN/MTN Issues between the	Use T.code MIGO-Goods issue-Others
	Distributors for adjusting either	Movement type Z64-V for receipt and Z63-V
	PR/Empty Cylinders	for issues and transfer the Stocks from one
		distributor to another distributor based on
		MTN/MIN generated in Indsoft.

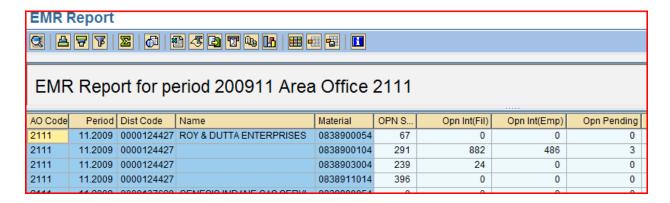
# B) Upload of SVTV File

- o TCode YVC504
- o In period, give 112009 if the Go Live month is November 2009.
- o Give the plant code of the Area Office for which reconciliation is taking place.
- o Insert the SVTV text file from CMS in "Input File"
- o Click on "Execute" button or press F8 to uploadthe SVTV data.
- Screen shot attached
- o For the first month, also upload the SVTV file for the previous month to get the opening Pending Installation data in the system.



#### **Generation of EMR Report YVR432** VI

- Give period as 02.2010 if the report is required for February 2010.
- o Give the Area Office Code for which the report is being run.
- Execute to get the report.
- Screen shot attached.



This output should be checked for any mismatch between book stock (Calculated by SAP based on Opening stock and monthly issue/receipt transactions) and godown stock (Book balance of Indsoft) and analyse the differences and initiate action for recovery/shortage booking.

# Inter Distributor issue/Receipt

Area Managers will authorize transfer of equipment between distributors in order to optimize distributor inventory. These transfers will not be covered in the above process. Such entries will show as Mismatch of book stock and godown stock in EMR report and the same has to be verified case by case and necessary entries to be passed in SAP as follows:

- For posting a Inter Distributor Issue, post a MIGO document with movement type Z64 V- with "Reason for Movement" as "0001 Inter Dist Trn Iss"
- For posting a Inter Distributor Receipt, post a MIGo document with movement type Z63 V+ with "Reason for Movement" as 0001 Inter Dist Trn Rct Plant code will be the normal source of supply plant.

### **Booking of Shortages in SAP**

For posting a loss, post a MIGO document with movement type Z64 V- with Reason for Movement as "0003 Short Rect - Dist"

Plant code will be the normal source of supply plant.

Please ensure that Validation Errors and Unconnected returns output is empty before taking the final printout of YVR432. Otherwise, printout will always show that the report is being printed with "Validation Errors / Unconnected Returns" errors existing.