

# **End User Manual**

## **Plant Maintenance**

Prepared for



## DOCUMENT MANAGEMENT

### Revision History

Version	Date	Author	Revision Description
V1.0	23/08/2021	Adeit Behera/Kiran	
V2.0	29/08/2022	Subhransu/Saumya	

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## Introduction

### SAP PM Overview

SAP Plant Maintenance (PM) helps businesses support and maintain equipment and systems. It integrates with other ECC components like Materials Management (MM), Production Planning (PP), Sales and Distribution (SD), Finance (FI), Controlling (CO), and Human Resources (HR). SAP PM is comprised of components for the three main activities:

- Inspection - establishes the actual condition of the systems or equipment
- Preventive maintenance - helps to maintain ideal conditions for the system or equipment
- Repair - restores the systems or equipment

SAP PM allows to manage maintenance requests and perform some repairs automatically.

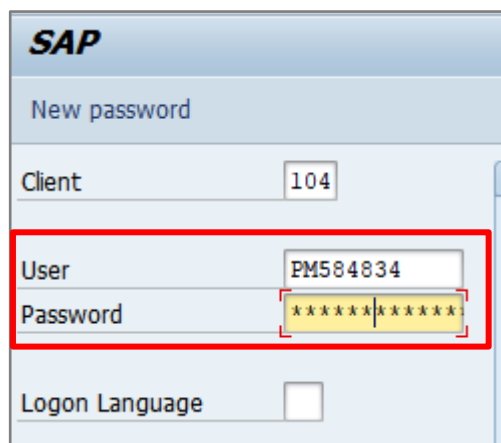
### Document Audience

The intended audiences of this document are:

- CIL ERP Core Team for Plant Maintenance
- Subsidiary Subject Matter Expert
- Business End User of Excavation, E & M Dept, at Mine, Regional workshop, Central Workshop

### Navigation

Enter your credentials to login.

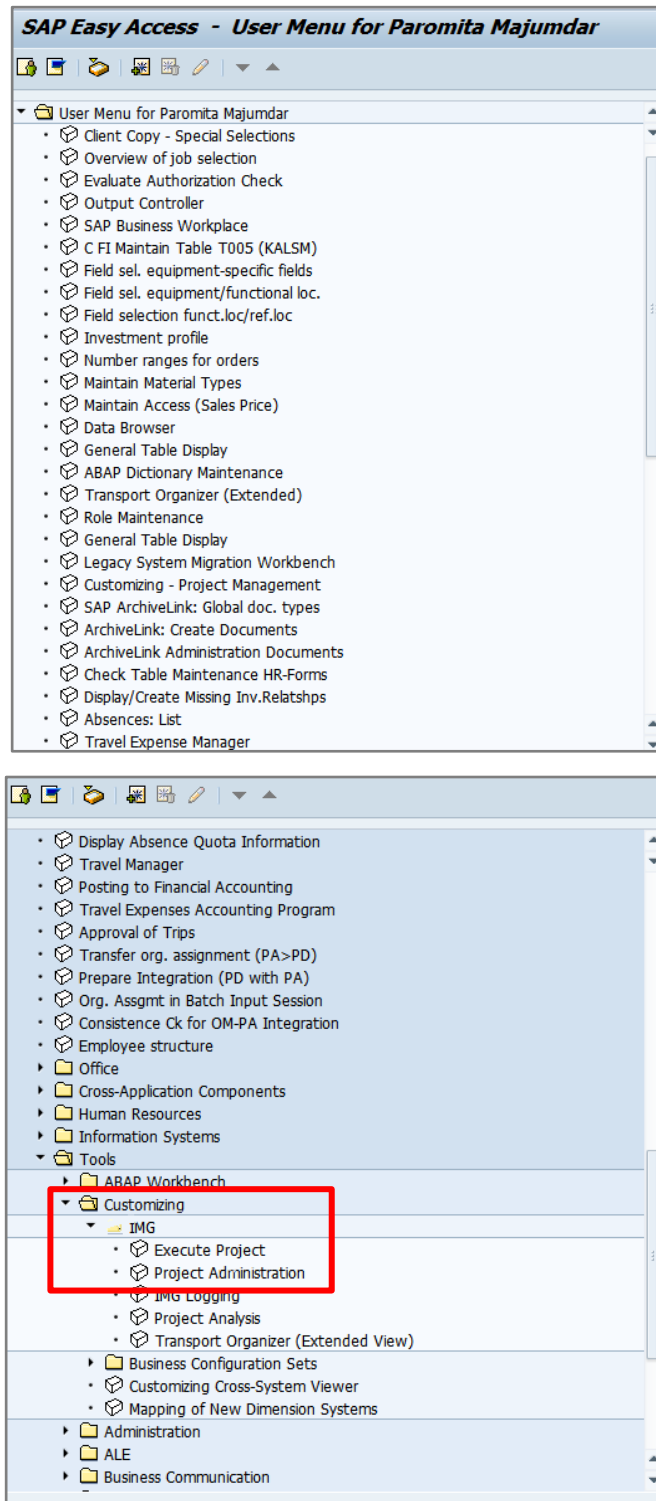


The image shows the SAP login interface. It includes fields for Client (104), User (PM584834), Password (masked with asterisks), and Logon Language. A red box highlights the User and Password fields.

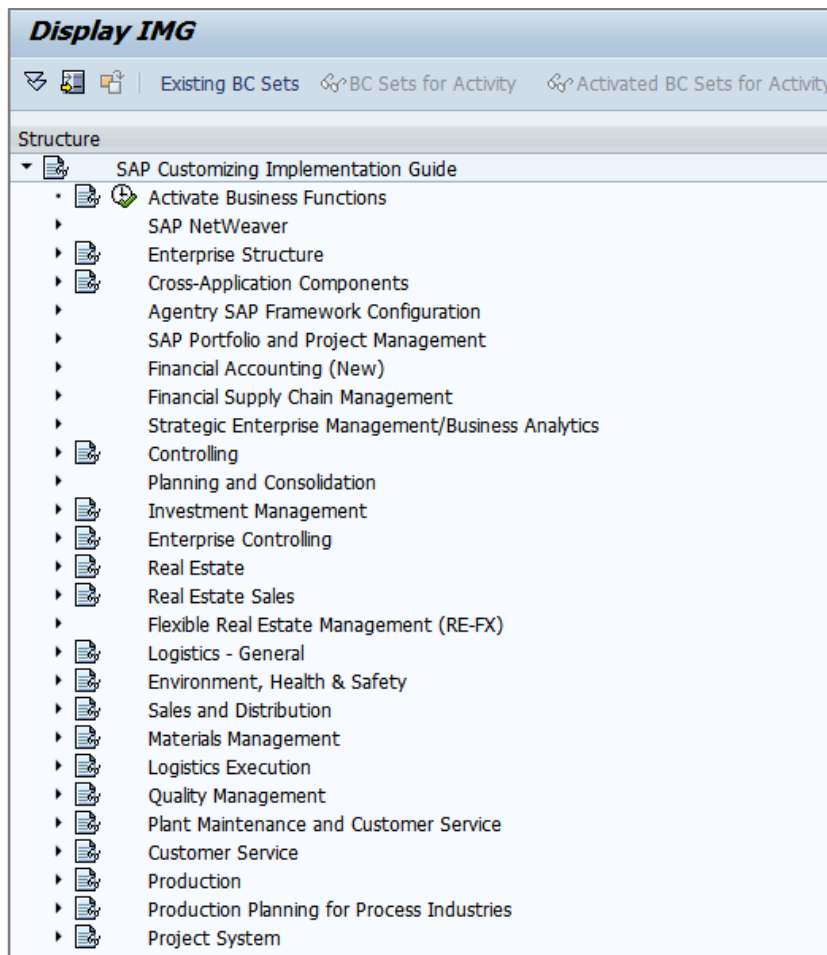
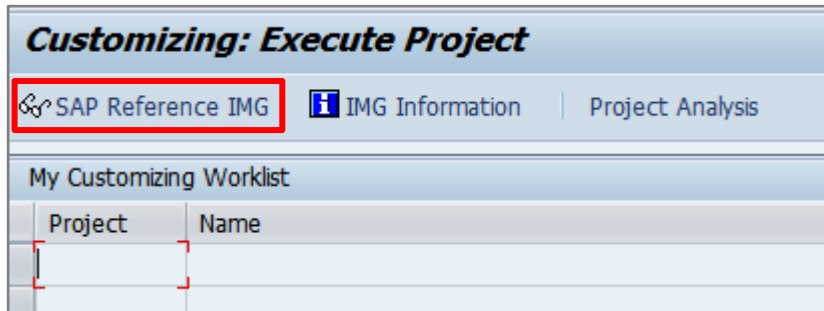
You can see the SAP menu divisions of SAP modules, Office, Logistics, Accounting, Human Resources, Information Systems and tools. Each of these modules are further divided into sub-modules and most of the work that we will be doing during the course will be within Accounting or the IMG (Implementation Guide).

The customization is done via IMG (Implementation Guide).







**Navigation Path: SAP Mail Screen >>> Tools >>> Customizing >>> IMG**






















Click on the "SAP Reference IMG" button.



## Icon List / Legends

Icons	Description
	Continue / Enter
	Save
	Back
	Exit
	Cancel
	Date and preview period

	Go to
	Create
	Copy
	Change
	Display
	Delimit infotype
	Delete
	Maintain overview
	In descending order
	In ascending order
	One level up
	Expand node
	Collapse node
	Display evaluation path
	Column configurator
	Display periods
	Display <-> Change
	Refresh
	Unrelated objects
	Icon list/Legend
	Insert line
	Delete line
	Replace
	Move
	Change sequence

## Terminology

The following terms have been used in the compilation of this document:

Term / Abbreviation	Legacy Term	Description
SAP ECC, EHP 8	Nil	Refer to the SAP core system with slight variances in definition
EHP 8	Nil	Enhancement Packs. SAP releases enhancement packs aimed at including extra functionality. Often in HR, the added functionalities of these enhancement packs are country specific. At time of writing the current SAP EHP version was EHP8

Term / Abbreviation	Legacy Term	Description
Finance (FI)	Accounting	The financial accounting module in SAP
Controlling (CO)	Accounting	The management accounting module in SAP
Material Management (MM)	Purchasing and inventory	The purchasing and inventory management module in SAP
Production Planning	Production Planning	The Production Planning module in SAP
Personnel Administration (PA)	Master data	HR Submodule in which employee master data is maintained
Organizational Management (OM)	Org Structure	HR Submodule in which organizational structure and reporting hierarchy is maintained.
Time Management (TM)	Time Management	HR Submodule in which employee time management is done.
Payroll (PY)	Payroll	HR Submodule in which employee payroll calculation is done.
Recruitment (Rec)	Recruitment	HR Submodule in which recruitment activity is done.
E-Separation(e-Sep)	Resignation/ Exit process	HR Submodule in which employee final exit process related solution is given.
Employee Self Service/Manager Self Service (ESS/MSS)	Employee self-service of CoalNet	HR Submodule where employee self-service activity is done.
Personnel Development (PD)	Training & Development	HR Submodule where Learning service Organization, Training and event management activity is done.
Learning Service Organization (LSO)	Training & Development	LSO stands for Learning service organization, it's the higher version of Training and event module.
BPC	NA	Business Planning and consolidation software for manpower planning and budgeting.
CL-IN	NA	HR Submodule of Payroll for Claims India Solution
BBP	NA	Business Blue Print
BPML	NA	Business Process Master List
FI-TV	NA	Finance Module: Travel & Expense Management
EIS	EIS	Coal India Executive Information System
HRMS	HRIS/HRMS	Coal India Human Resource Management System

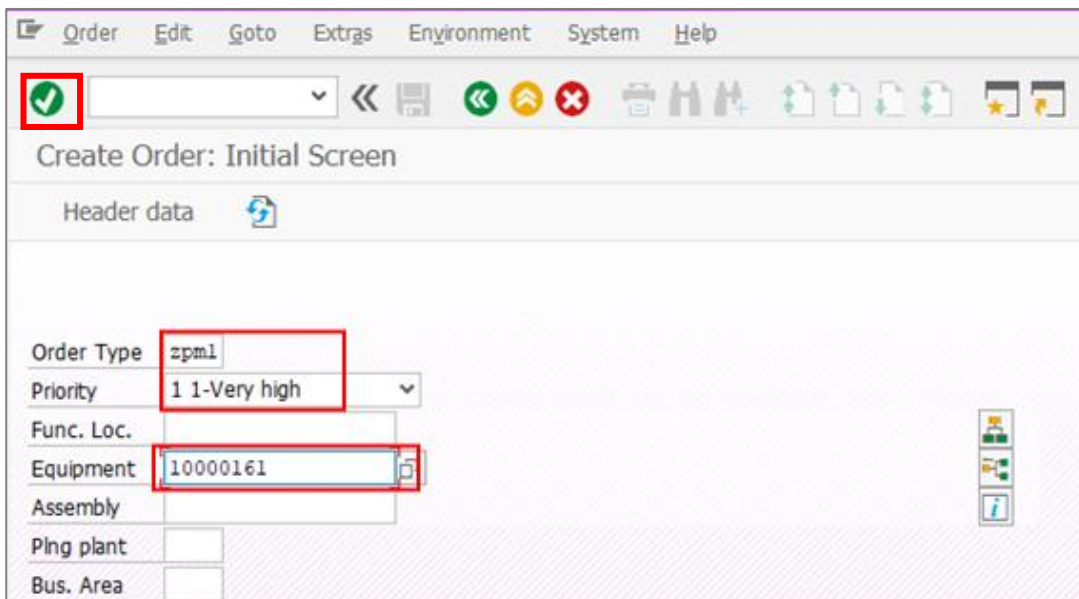
Term / Abbreviation	Legacy Term	Description
VC/DC/SC	VC/DC/SC	Vigilance Clearance/ Departmental Clearance/ Safety Clearance
EP	NA	Enterprise Portal SAP
SPR	SPR	Special Performance Report
BADI	NA	'Business Addins' used for enhancement via ABAP
LSMW	NA	SAP Legacy System Migration workbench – A solution for bulk upload of data in SAP.

## End User Manual for SAP Plant Maintenance

### 1. Capital Repair Maintenance Order

#### Create Maintenance Order

- I. Execute the transaction code **IW31**.
- II. Enter the **Order Type**.
- III. Select **Priority** from the dropdown list.
- IV. Enter the **Equipment** number.
- V. Click the continue/enter button.



- VI. Enter the **Order** description.
- VII. Click the **HeaderData** tab.
- VIII. Enter the **PMActType**.

Order Edit Goto Extrgs Environment System Help

Create Breakdown Maintenance Order : Central Header

Order ZFM1 000000000001 Capital Repair of Dumper BH100(#2595)

Sys.Status CRTD ACAS MANC NTUP

**HeaderData** Operations Components Costs Objects Additional Data Location Planning

Person responsible

PlannerGrp / 9667

Mn.wk.ctr PM-WC01 / 9667 HEMM Dept, Dum...

Message

Costs INR

PMActType MSC

SystCond.

Dates

Bsc start 17.09.2020 Priority 1 1-Very high

Basic fin. 18.09.2020 Revision

Reference object

Func. Loc.

Equipment 10000161 DUMPER BH 100(#2595)

Assembly

First operation

Operation

CcKey 1 Calculate duration

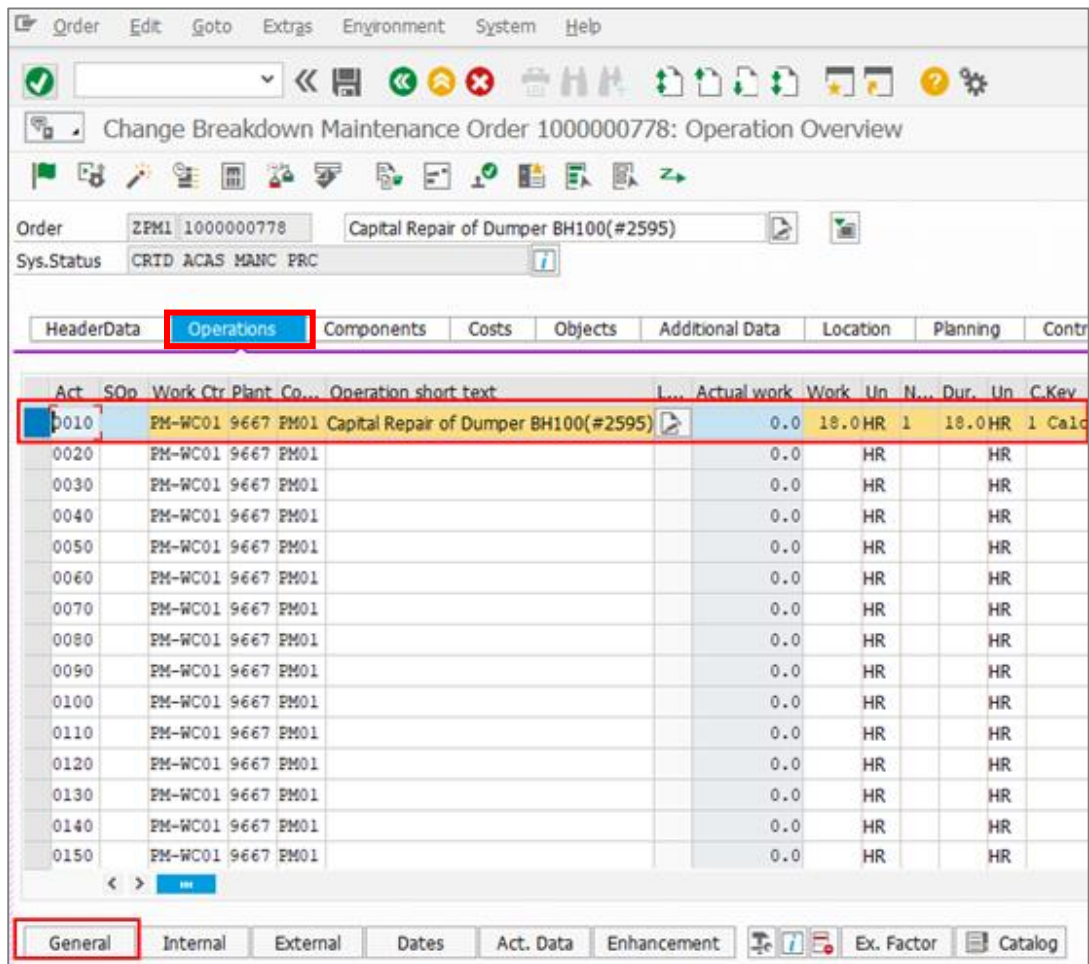
WkCtr/Plnt PM-WC01 / 9667 Ctrl key PM01 Acty Type 100008 PRT

Work durtn HR Number Oprtn dur. HR Comp.


Person. no

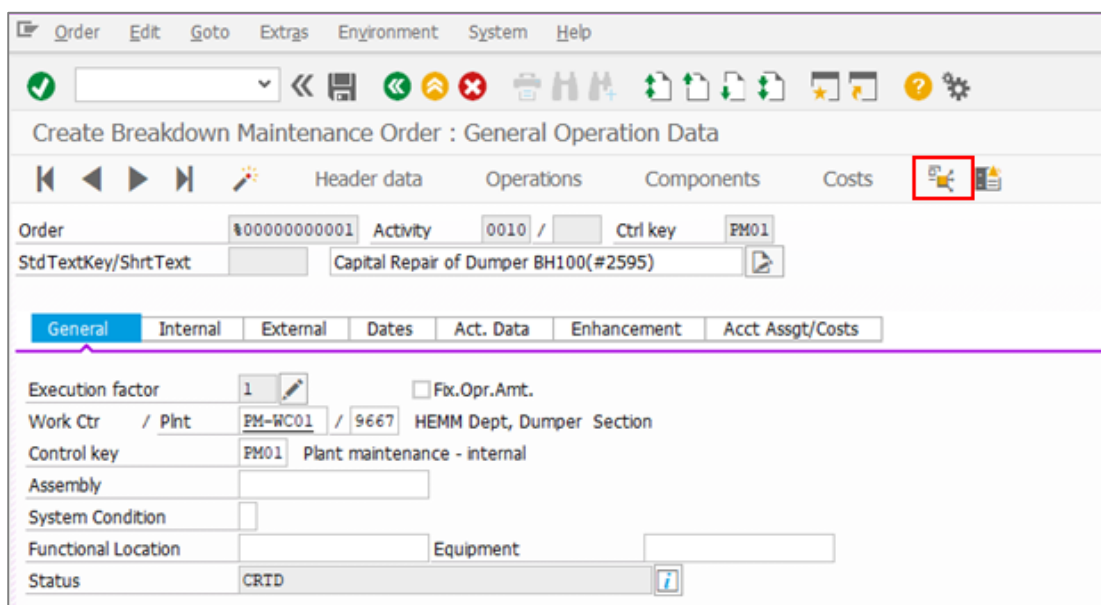
- IX. Click the **Operations** tab.
- X. Select appropriate operation row from the list.
- XI. Enter the **Operation short Text**.
- XII. Click **General** option at the bottom.





Act	SOp	Work Ctr	Plant	Co...	Operation short text	L...	Actual work	Work	Un	N...	Dur.	Un	C.Key
0010	PM-WC01	9667	PM01		Capital Repair of Dumper BH100(#2595)		0.0	18.0	HR	1	18.0	HR	1 Calc
0020	PM-WC01	9667	PM01				0.0		HR			HR	
0030	PM-WC01	9667	PM01				0.0		HR			HR	
0040	PM-WC01	9667	PM01				0.0		HR			HR	
0050	PM-WC01	9667	PM01				0.0		HR			HR	
0060	PM-WC01	9667	PM01				0.0		HR			HR	
0070	PM-WC01	9667	PM01				0.0		HR			HR	
0080	PM-WC01	9667	PM01				0.0		HR			HR	
0090	PM-WC01	9667	PM01				0.0		HR			HR	
0100	PM-WC01	9667	PM01				0.0		HR			HR	
0110	PM-WC01	9667	PM01				0.0		HR			HR	
0120	PM-WC01	9667	PM01				0.0		HR			HR	
0130	PM-WC01	9667	PM01				0.0		HR			HR	
0140	PM-WC01	9667	PM01				0.0		HR			HR	
0150	PM-WC01	9667	PM01				0.0		HR			HR	

XIII. Click  icon to define Settlement Rule.



Order: 100000000001 Activity: 0010 / Ctrl key: PM01  
 StdTextKey/ShrtText: Capital Repair of Dumper BH100(#2595)

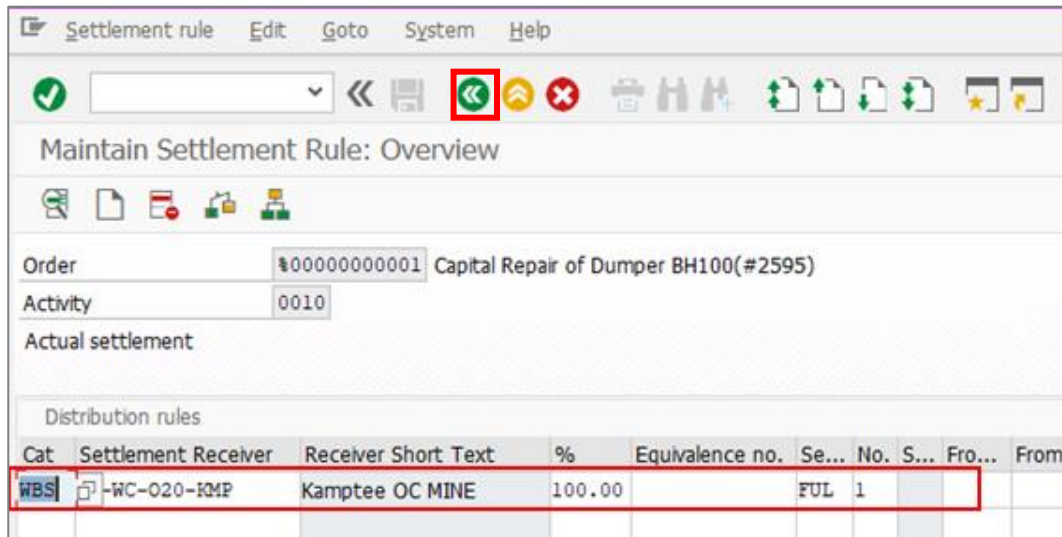
General Internal External Dates Act. Data Enhancement Acct Assgt/Costs

Execution factor: 1 ☐ Fx.Opr.Amt.  
 Work Ctr / Plnt: PM-WC01 / 9667 HEMM Dept, Dumper Section  
 Control key: PM01 Plant maintenance - internal  
 Assembly:   
 System Condition:   
 Functional Location: Equipment  
 Status: CRID

XIV. Enter the following details:

- Cat: Category
- Settlement Receiver
- %: Percentage
- Settlement Type

XV. Click the back button.



Order: \$000000000001 Capital Repair of Dumper BH100(#2595)

Activity: 0010

Actual settlement:

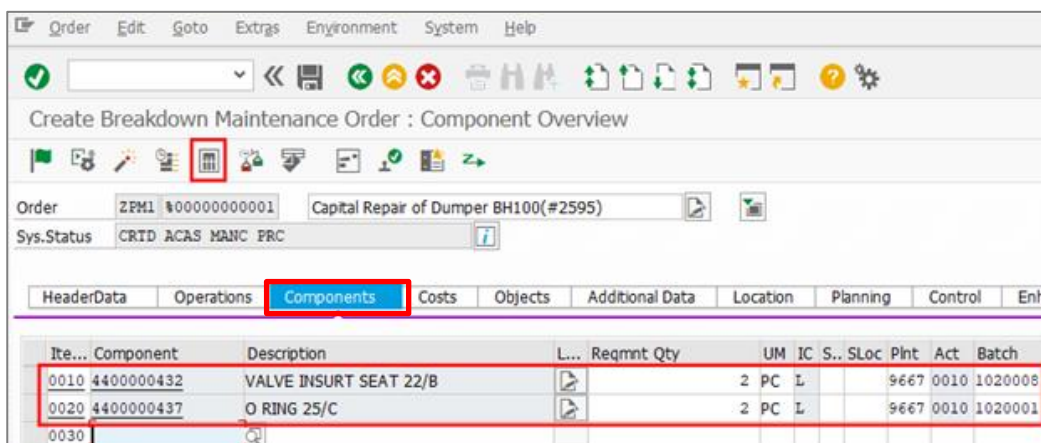
Cat	Settlement Receiver	Receiver Short Text	%	Equivalence no.	Se...	No.	S...	Fro...	From..
WBS	WC-020-KMP	Kamptee OC MINE	100.00		FUL	1			

XVI. Go to **Components** tab

XVII. Enter the following details:

- Component
- Reqmnt Qty
- Batch.

XVIII. Click  button to determine costs.



Order: ZPM1 \$000000000001 Capital Repair of Dumper BH100(#2595)

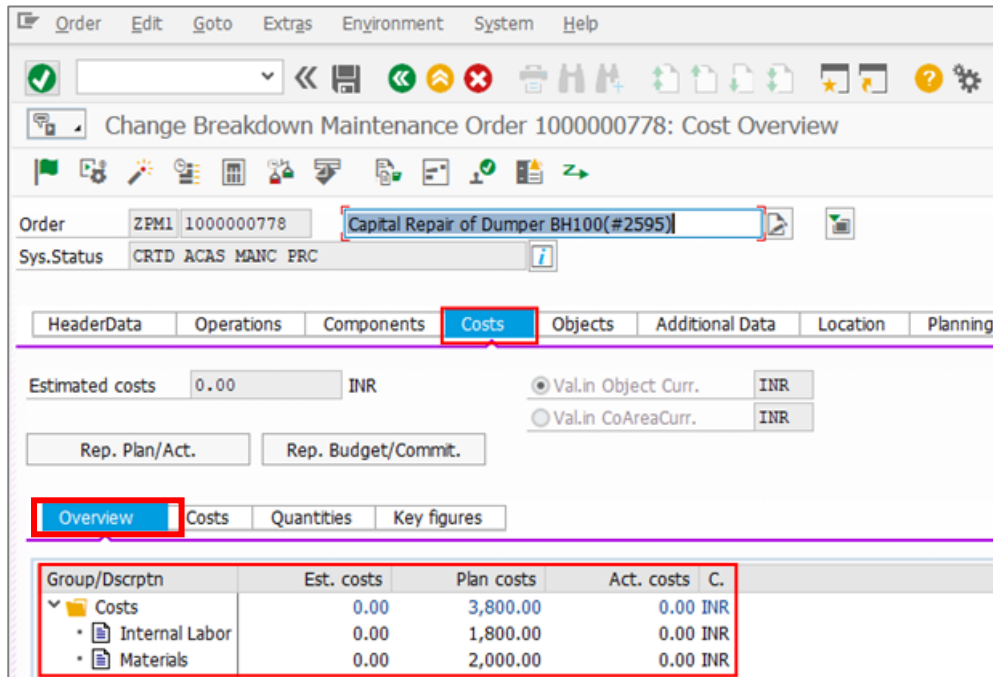
Sys.Status: CRID ACAS MANC PRC

HeaderData	Operations	Components	Costs	Objects	Additional Data	Location	Planning	Control	Enh		
Ite...	Component	Description	L...	Reqmnt Qty	UM	IC	S..	SLoc	Plnt	Act	Batch
0010	4400000432	VALVE INSURT SEAT 22/B			2	PC	L		9667	0010	1020008
0020	4400000437	O RING 25/C			2	PC	L		9667	0010	1020001

XIX. Click **Costs** tab.

XX. Click the **Overview** tab.

XXI. Check the plan costs and material cost.



Order: ZPM1 1000000778 Capital Repair of Dumper BH100(#2595)

Sys.Status: CRID ACAS MANC PRC

HeaderData | Operations | Components | **Costs** | Objects | Additional Data | Location | Planning

Estimated costs: 0.00 INR

Val.in Object Curr. INR  
Val.in CoAreaCurr. INR

Rep. Plan/Act. Rep. Budget/Commit.

**Overview** | Costs | Quantities | Key figures

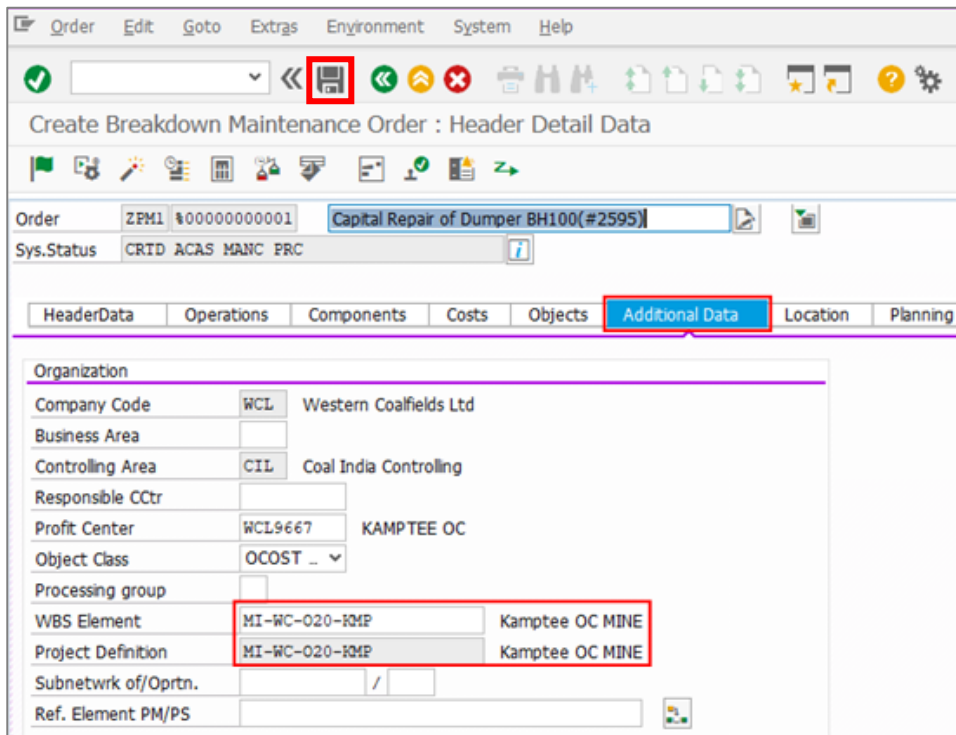
Group/Dscrptn	Est. costs	Plan costs	Act. costs	C.
Costs	0.00	3,800.00	0.00	INR
Internal Labor	0.00	1,800.00	0.00	INR
Materials	0.00	2,000.00	0.00	INR

XXII. Click the **Additional Data** tab.

XXIII. Enter the following details:

- WBS Element
- Project Definition

XXIV. Click the save button.



Order: ZPM1 100000000001 Capital Repair of Dumper BH100(#2595)

Sys.Status: CRID ACAS MANC PRC

HeaderData | Operations | Components | Costs | Objects | **Additional Data** | Location | Planning

Organization

Company Code: WCL Western Coalfields Ltd

Business Area:

Controlling Area: CIL Coal India Controlling

Responsible Cctr:

Profit Center: WCL9667 KAMPTEE OC

Object Class: OCOST

Processing group:

WBS Element: MI-WC-020-KMP Kamptee OC MINE

Project Definition: MI-WC-020-KMP Kamptee OC MINE

Subnetwork of/Opntr.:

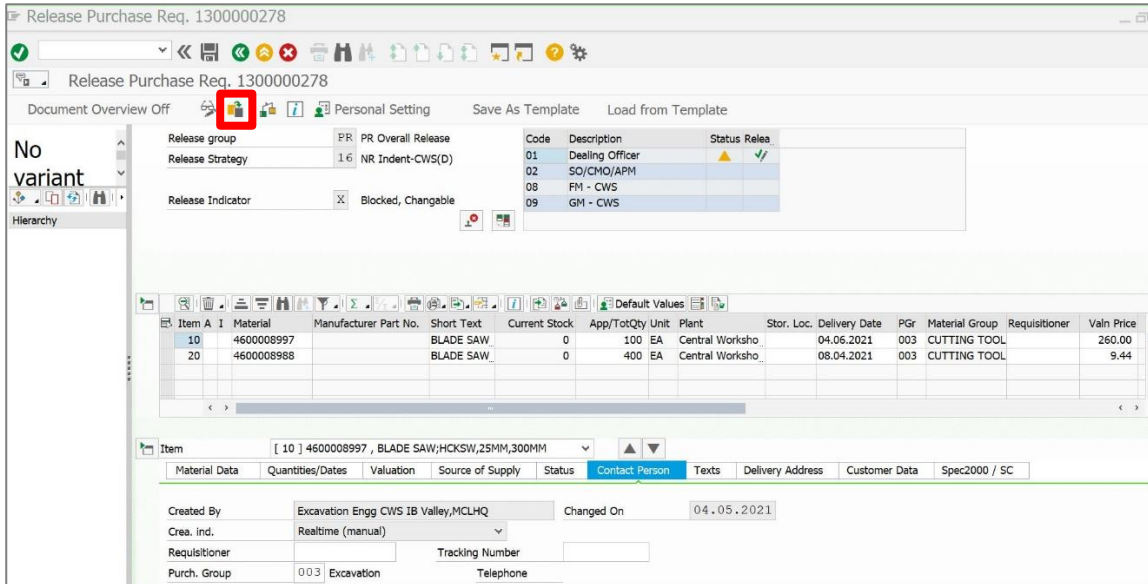
Ref. Element PM/PS:

The message will be displayed at the bottom of the screen.

Order saved with number 1000000778

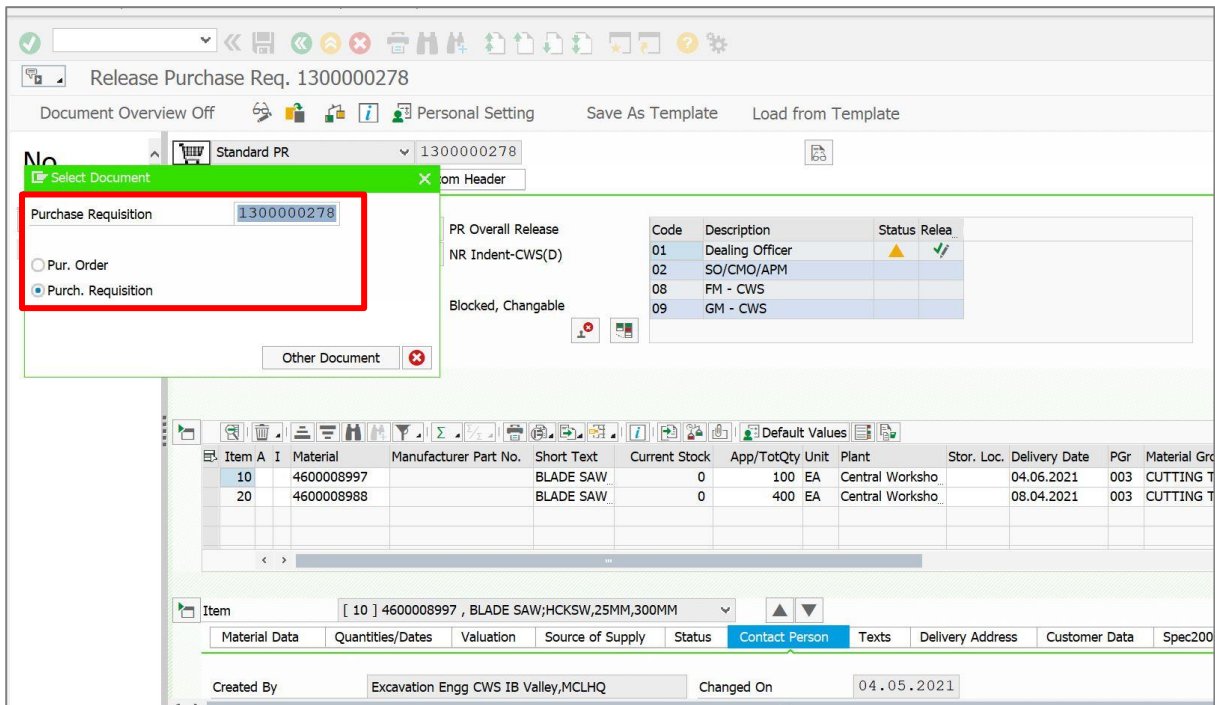
## 2. Purchase Requisition Release

- I. Execute transaction code **ME54N** from SAP command field.
- II. Click on **Other Purchase Requisition** button. A pop-up window appears.



The screenshot shows the SAP 'Release Purchase Req. 1300000278' window. The 'Release group' is 'PR' and 'Release Strategy' is '16'. The 'Release Indicator' is 'Blocked, Changeable'. The 'Code' table shows: 01 Dealing Officer, 02 SO/CMO/APM, 08 FM - CWS, 09 GM - CWS. The 'Item' table shows: 10 4600008997 BLADE SAW, 20 4600008988 BLADE SAW. The 'Item' dropdown is set to '[ 10 ] 4600008997, BLADE SAW;HCKSW,25MM,300MM'. The 'Contact Person' tab is selected, showing 'Created By: Excavation Engg CWS IB Valley,MCLHQ' and 'Changed On: 04.05.2021'.

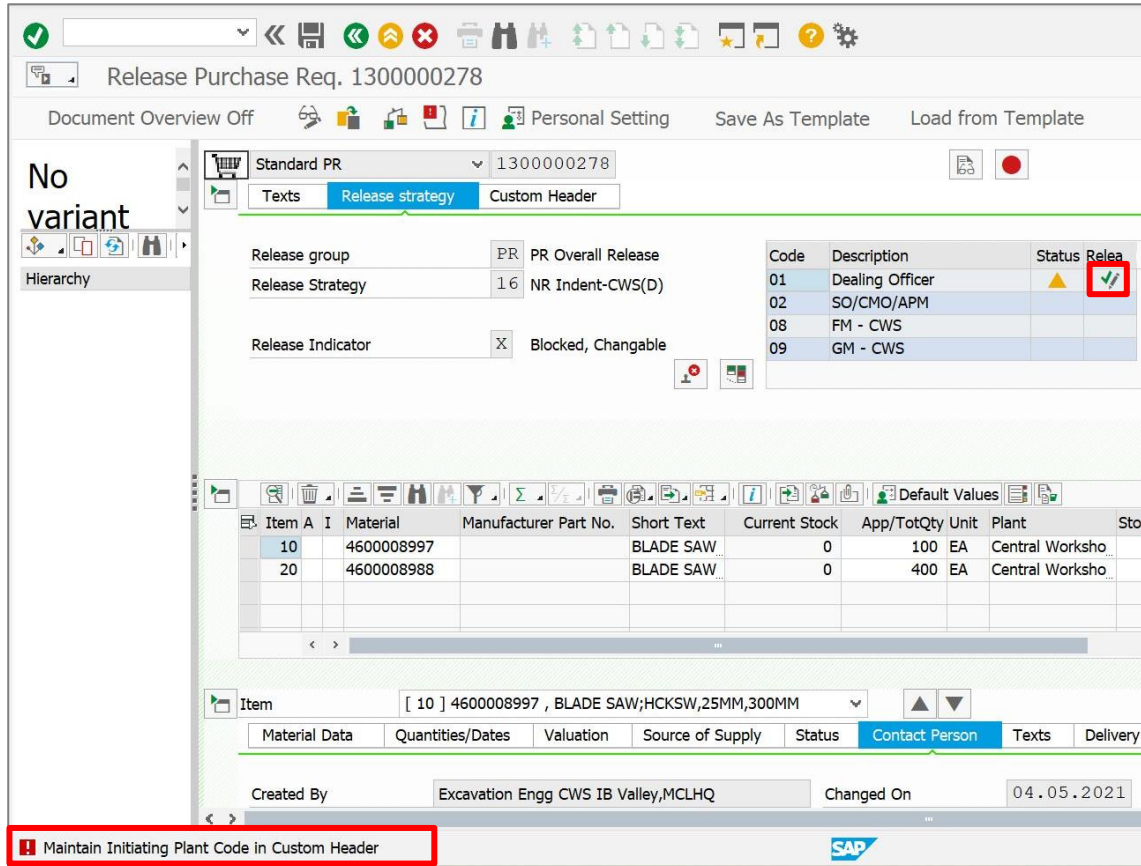
- III. Enter **Purchase Requisition** number.
- IV. Click **Purch. Requisition** radio button.
- V. Press Enter.



The screenshot shows the same SAP window, but with a red box highlighting the 'Purch. Requisition' radio button and the 'Purchase Requisition' number field, which contains '1300000278'. The 'Other Document' button is also visible.



- VI. Click on **Release** cell against appropriate row. A processing message is displayed at the bottom of the screen.



Release Purchase Req. 1300000278

Document Overview Off | Personal Setting | Save As Template | Load from Template

Standard PR 1300000278

Texts | **Release strategy** | Custom Header

No variant

Hierarchy

Release group	PR	PR Overall Release	Code	Description	Status	Release
Release Strategy	16	NR Indent-CWS(D)	01	Dealing Officer	▲	✓
			02	SO/CMO/APM		
			08	FM - CWS		
			09	GM - CWS		

Release Indicator X Blocked, Changeable

Item	I	Material	Manufacturer Part No.	Short Text	Current Stock	App/TotQty	Unit	Plant	Storage
10		4600008997		BLADE SAW	0	100	EA	Central Worksho	
20		4600008988		BLADE SAW	0	400	EA	Central Worksho	

Item [ 10 ] 4600008997 , BLADE SAW;HCKSW,25MM,300MM

Material Data | Quantities/Dates | Valuation | Source of Supply | Status | **Contact Person** | Texts | Delivery

Created By Excavation Engg CWS IB Valley,MCLHQ Changed On 04.05.2021

**! Maintain Initiating Plant Code in Custom Header**

If an Error occurs (Maintain initiating Plant code in Custom Header),

- VII. Click **Custom Header** tab.
- VIII. Click **Initiating Plant code**.
- IX. Press enter.

Release Purchase Req. 1300000278

Document Overview Off Personal Setting Save As Template Load from Template

Standard PR 1300000278

Texts Release strategy **Custom Header**

Type of Procurement Decentralized Note Sheet I  
Type of Indent Normal Indent Note Sheet II  
Initiating Plant code: 5005 Central Workshop (IB Valley)  
Duration In Days (CMC/Civil/Other Service)  
Diesel Price 0.00

Item A	I	Material	Manufacturer Part No.	Short Text	Current Stock	App/TotQty	Unit	Plant	Stor. Loc.	Delivery Date	PGr	Material Group	Requisitioner
10		4600008997		BLADE SAW	0	100	EA	Central Worksho		04.06.2021	003	CUTTING TOOL	
20		4600008988		BLADE SAW	0	400	EA	Central Worksho		08.04.2021	003	CUTTING TOOL	

Item [ 10 ] 4600008997 , BLADE SAW;HCKSW,25MM,300MM

Material Data Quantities/Dates Valuation Source of Supply Status **Contact Person** Texts Delivery Address Customer Data Spec2000 / SC

Created By Excavation Engg CWS IB Valley,MCLHQ Changed On 04.05.2021

X. Click the **Release strategy** tab.

XI. Click on the release icon against the code.

Purchase Requisition Edit Environment System Help


Release Purchase Req. 1300000278

Document Overview Off Personal Setting Save As Template Load from Template

Standard PR 1300000278

Texts **Release strategy** Custom Header

Release group PR PR Overall Release  
Release Strategy 16 NR Indent-CWS(D)  
Release Indicator X Blocked, Changeable

Code	Description	Status	Relea
01	Dealing Officer		
02	SO/CMO/APM		
08	FM - CWS		
09	GM - CWS		

Item A	I	Material	Manufacturer Part No.	Short Text	Current Stock	App/TotQty	Unit	Plant	Stor. Loc.	Delivery Date
10		4600008997		BLADE SAW	0	100	EA	Central Worksho		04.06.2021
20		4600008988		BLADE SAW	0	400	EA	Central Worksho		08.04.2021

## **Procurement of Assets Under Construction through Material Management**

### **Create AUC Asset**



- I. Execute transaction code **AS01** in SAP command field.
- II. Enter **Asset Class** number.
- III. Enter **Company Code**.
- IV. Press Enter.

**Create Asset: Initial screen**

Master data		Depreciation areas	
Asset Class	99000		
Company Code	CIL	<input type="checkbox"/>	<input type="checkbox"/>
Number of similar assets	1		
<b>Reference</b>			
Asset			
Sub-number			
Company code			
<input type="checkbox"/> Post-capitalization			

- V. Enter asset description in the **Description** field under 'General' tab.
- VI. Enter material quantity in the **Quantity** field and unit next to it.
- VII. Click the **Manage Historically** option if you want to fetch the details for the future entries.
- VIII. Click **Time-dependent** tab.

### Create Asset: Master data

  Asset values

Asset   Plant and Machinery Test4  
Class  AUC- BUIDLINGS Company Code

**General** **Time-dependent** Allocations Origin Net Worth Tax India Specific Data Leasing Deprec. Areas

**General data**

Description

Asset main no. text

Acct determination  ASSET UNDER CONSTRUCTION-(BUILDINGS -W,R AND C )

Serial number

Inventory number

Quantity

☒ Manage historically

**Inventory**



Last inventory on  ☐ Include asset in inventory list

Inventory note

IX. Enter **Business Area**.

X. Enter **Plant** code.


**Create Asset: Master data**

  Asset values

Asset   Plant and Machinery Test4  
Class  AUC- BUIDLINGS Company Code

**General** **Time-dependent** Allocations Origin Net Worth Tax India Specific Data Leasing Deprec. Areas

Interval from 01.01.1900 to 31.12.9999

**Business Area**  

Cost Center  Finance & Accounts C

**Plant**  New Delhi Liasioning Office

License plate number

WBS Element (Costs)

Profit Center  CIL Branch Office

Segment

☐ Asset shutdown



- XI. Click **Deprec. Areas**.  
XII. Enter asset life in years in **UseLife** column.

Create Asset: Master data

Asset values

Asset: INTERN-00001 0 Plant and Machinery Test4  
Class: 99000 AUC- BUIDLINGS Company Code: CIL

General Time-dependent Allocations Origin Net Worth Tax India Specific Data Leasing **Deprec. Areas**

Valuation

Deact	A...	Depreciation area	DKey	UseLife	Prd	ODep Start	Index
<input type="checkbox"/>	01	Book deprec.	Z000	15			
<input type="checkbox"/>	32	BkDep(g.cur)	Z000	0	0		

- XIII. Press Enter.  
XIV. Click the save button.

Change Asset: Master data

Asset values

The asset is created. A message is displayed at the bottom of the page.

Create Asset: Initial screen

Master data Depreciation areas

Asset Class: 99000  
Company Code: CIL  
Number of similar assets: 1

Reference

Asset:   
Sub-number:   
Company code:

☐ Post-capitalization

☒ The asset 9900000000011 0 is created

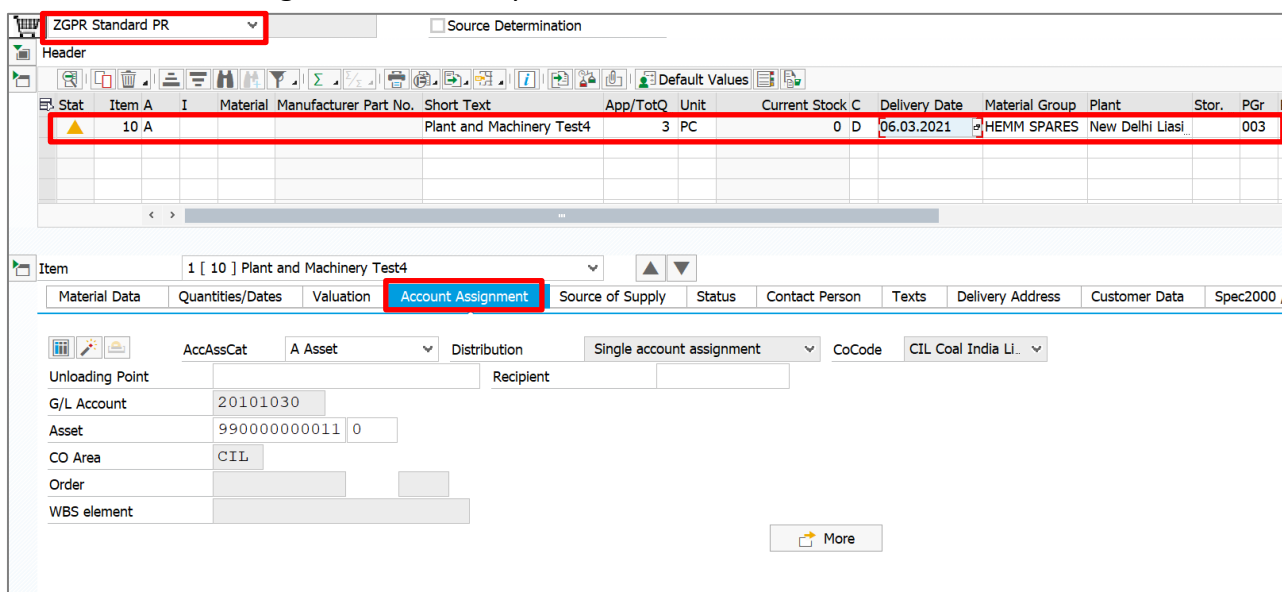
### Create Purchase Requisition

To procure the Asset through MM, it is mandatory to create Asset master.

Use following transaction codes as required:

Creation of Asset Master	AS01
Display of Asset Master	AS03
Change of Asset Master	AS02
Creation of PR (Purchase requisition)	ME51N
Change of PR (Purchase requisition)	ME52N
Display of PR (Purchase requisition)	ME53N

- I. Execute transaction code **ME51N** in SAP command field to create PR.
- II. Select **ZGPR Standard PR** option as a document type from the drop-down option on the top bar.
- III. On item level, enter the following details:
  - Select account assignment as 'A'
  - Enter the short text
  - Total quantity and unit
  - Material Group
  - Plant / Stor. / PGr
- IV. Click **Account Assignment** tab. Verify the auto-fetched details.



The screenshot shows the SAP ZGPR Standard PR transaction. The document type is set to 'ZGPR Standard PR'. The item level details are as follows:

Stat	Item A	I	Material	Manufacturer	Part No.	Short Text	App/TotQ	Unit	Current Stock	C	Delivery Date	Material Group	Plant	Stor.	PGr
	10	A				Plant and Machinery Test4	3	PC	0	D	06.03.2021	HEMM SPARES	New Delhi Liasi		003

The 'Account Assignment' tab is selected, showing the following details:

Field	Value
AccAssCat	A Asset
Distribution	Single account assignment
CoCode	CIL Coal India Li.
Unloading Point	
G/L Account	20101030
Asset	990000000011 0
CO Area	CIL
Order	
WBS element	

- V. Click the **Valuation** tab.
- VI. Enter **Valuation Price** and quantity next to it.
- VII. Click the appropriate checkboxes under 'Promotion'.

Item: 1 [ 10 ] Plant and Machinery Test4

Material Data | Quantities/Dates | **Valuation** | Account Assignment | Source of Supply | Status | Contact Person | Texts

Valuation Price: 100,000.00 INR / 1 PC Total Value: 300,000.00

Promotion:

☒ Goods receipt  
☒ Inv. Receipt  
☒ GR Non-Val.

VIII. Click the **Custom Header** tab.

IX. Enter the following details:

- Type of Procurement
- Type of Indent
- Initiating Plant code
- Duration In Days (CMC/Civil/Other Service)

ZGPR Standard PR ☐ Source Determination

Texts | **Custom Header**

Type of Procurement: DEC Decentralized Note Sheet I

Type of Indent: EIN Normal Indent Note Sheet II

Initiating Plant code: 1002 New Delhi Liasioning Office

Duration In Days (CMC/Civil/Other Service):

Diesel Price:

X. Click the save button to save the details.

Create Purchase Requisition

Document Overview Off | Hold | Park | Personal Setting | Save As Template | Load from Template

ZGPR Standard PR ☐ Source Determination

Texts | **Custom Header**

Type of Procurement: DEC Decentralized Note Sheet I

Type of Indent: EIN Normal Indent Note Sheet II

Initiating Plant code: 1002 New Delhi Liasioning Office

Duration In Days (CMC/Civil/Other Service):

Diesel Price:

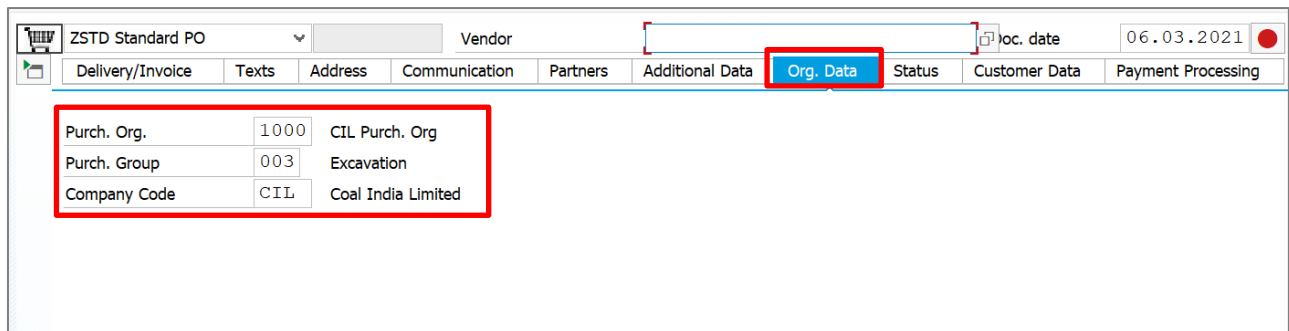
Purchase requisition number is generated at the bottom of the page.



IV. Click **Org. Data** tab.

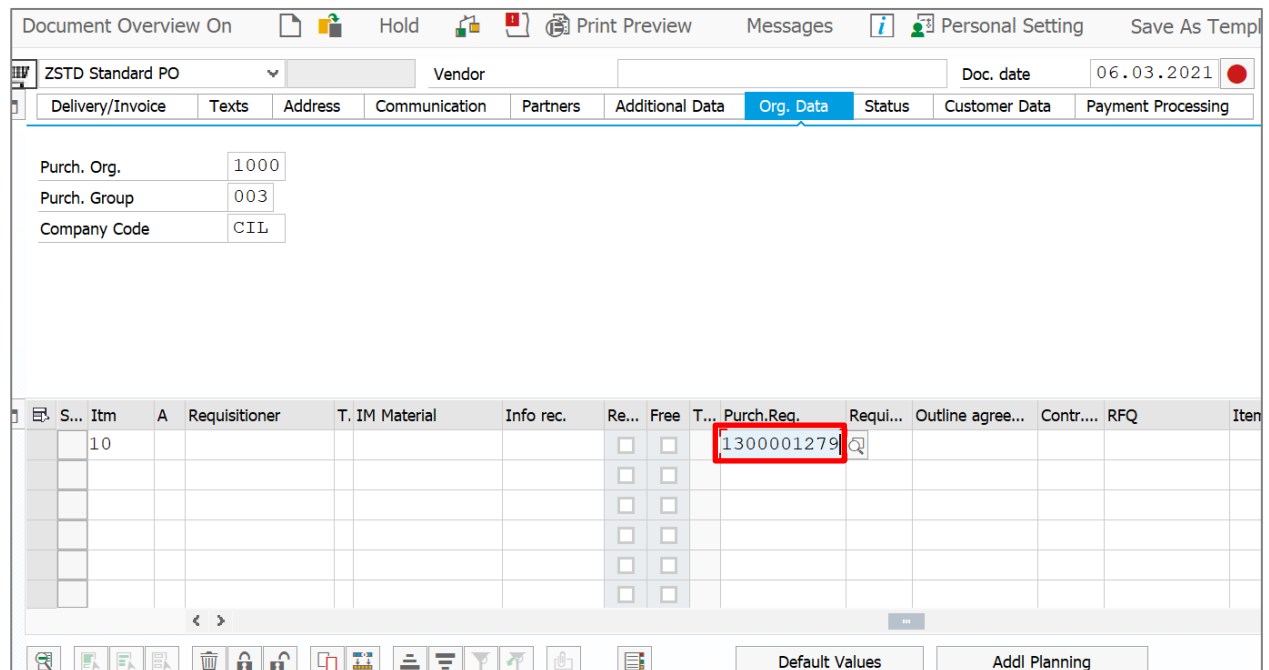
V. Enter the following details:

- Purch. Org.
- Purch. Group
- Company Code



VI. On item level, enter purchase requisition number that was generated in the previous step.

VII. Press Enter.



S...	Itm	A	Requisitioner	T. IM Material	Info rec.	Re...	Free	T...	Purch. Req.	Requi...	Outline agree...	Contr....	RFQ	Item
	10								1300001279					

- VIII. Click **Customer Data** tab.
- IX. Enter the **Vendor** number.
- X. Enter the following details:
- Initiating Plant code
  - Section
  - Contract Status



ZSTD Standard PO    Vendor    1011000 A.K ENTERPRISES    Doc. date    06.03.20

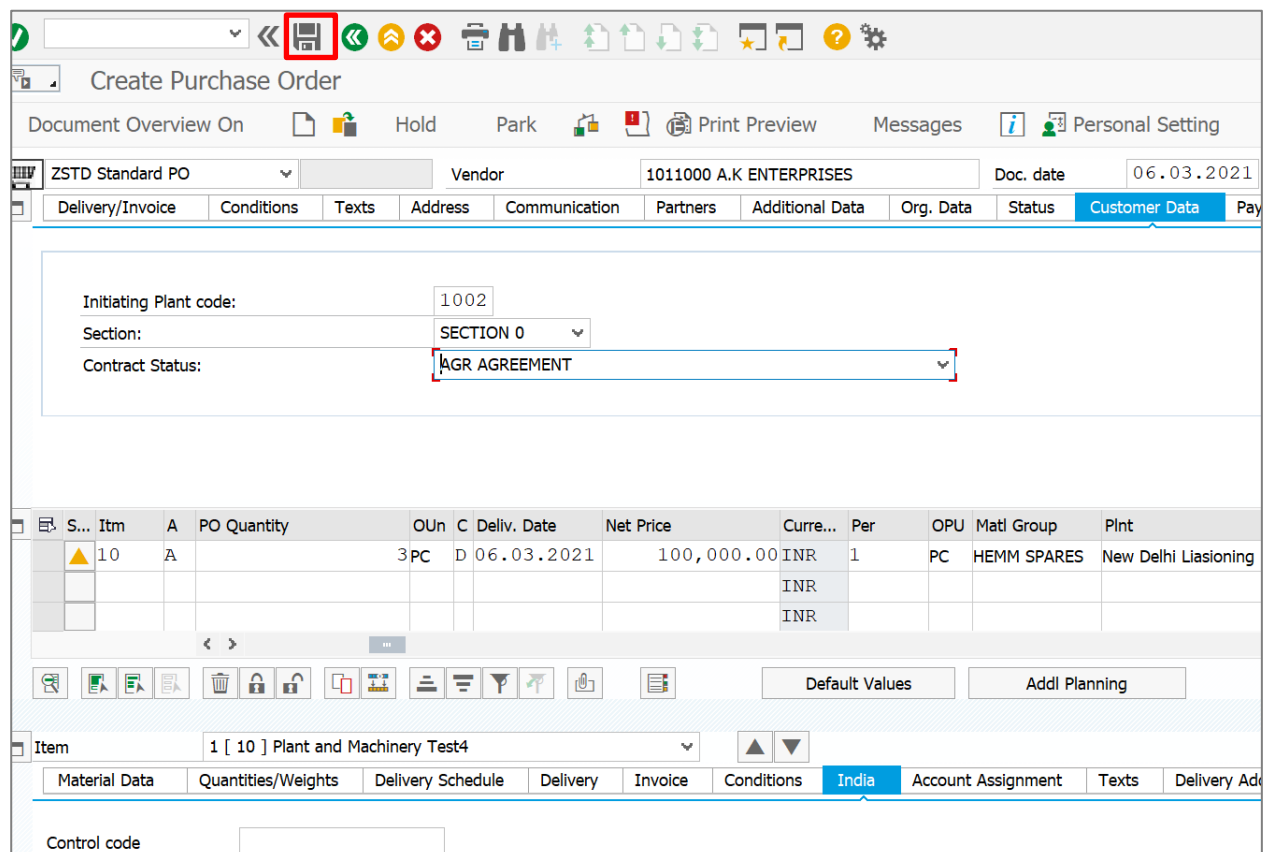
Delivery/Invoice    Conditions    Texts    Address    Communication    Partners    Additional Data    Org. Data    Status    **Customer Data**

Initiating Plant code:    1002

Section:    SECTION 0

Contract Status:    AGR AGREEMENT

- XI. Click the save button.



Create Purchase Order

Document Overview On    Hold    Park    Print Preview    Messages    Personal Setting

ZSTD Standard PO    Vendor    1011000 A.K ENTERPRISES    Doc. date    06.03.2021

Delivery/Invoice    Conditions    Texts    Address    Communication    Partners    Additional Data    Org. Data    Status    **Customer Data**    Pay

Initiating Plant code:    1002

Section:    SECTION 0

Contract Status:    AGR AGREEMENT

S...	Itm	A	PO Quantity	OUn	C	Deliv. Date	Net Price	Curre...	Per	OPU	Matl Group	Plnt
	10	A		3	PC	06.03.2021	100,000.00	INR	1	PC	HEMM SPARES	New Delhi Liasioning
								INR				
								INR				

Item    1 [ 10 ] Plant and Machinery Test4

Material Data    Quantities/Weights    Delivery Schedule    Delivery    Invoice    Conditions    **India**    Account Assignment    Texts    Delivery Ad

Control code

Purchase order is created and PO number is displayed at the bottom.

Create Purchase Order

Document Overview On

Hold

Print Preview

Messages

Personal Setting

NB Standard PO

Vendor

Doc. date

Delivery/Invoice

Conditions

Texts

Address

Communication

Partners

Additional Data

Org. Data

Status

Initiating Plant code:

Section:

Contract Status:

S...	Itm	A	PO Quantity	OUn	C	Deliv. Date	Net Price	Curre...	Per	OPU	Matl Group

Default Values

Addl Pla

Item

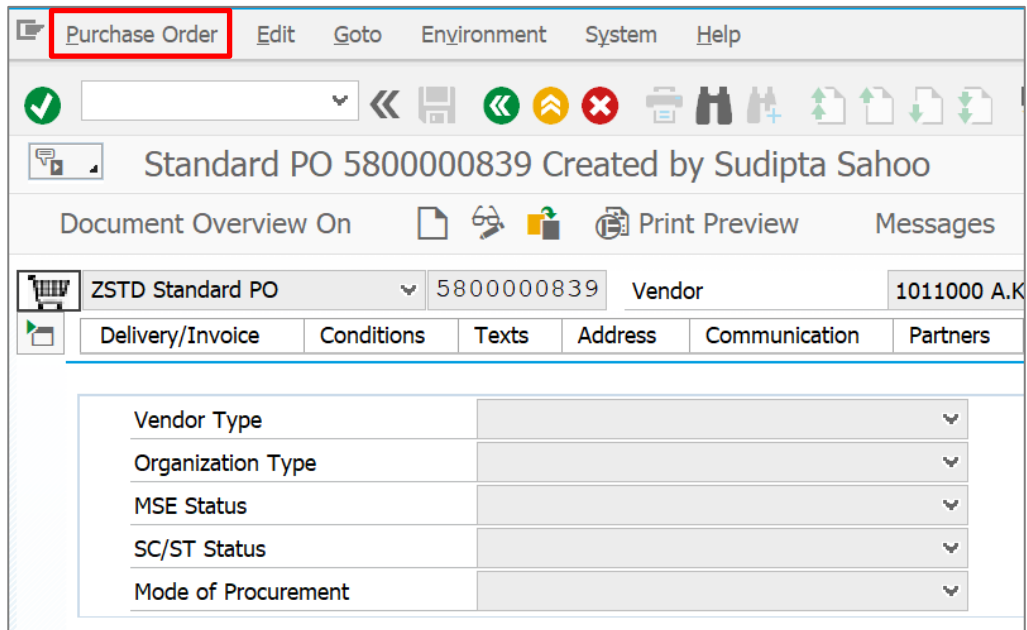
1 New Item

✓ Standard PO created under the number 5800000839

SAP

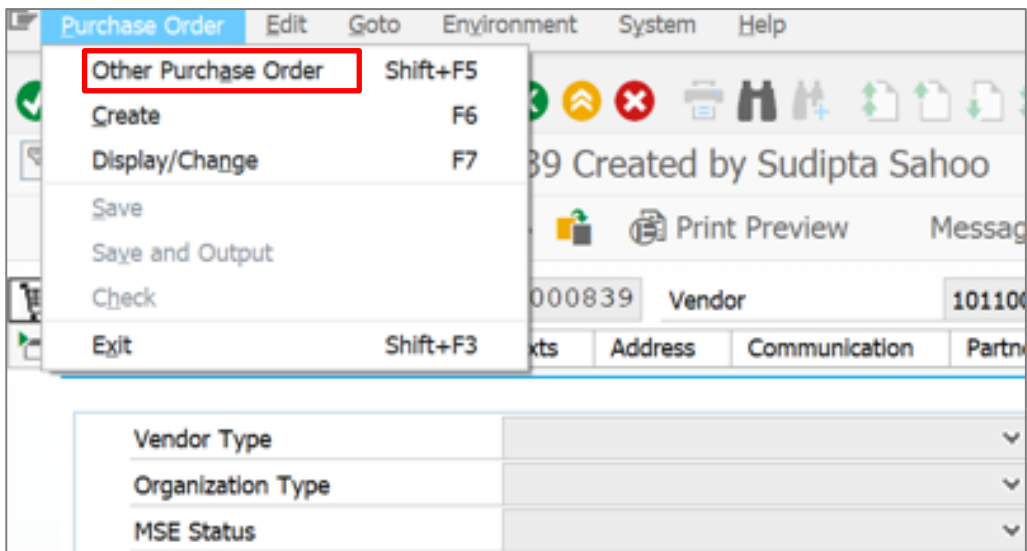
## Display Purchase Order

- I. Execute transaction code **ME23N** SAP command field.
- II. Click the **Purchase Order** menu from the top menu bar.



The screenshot shows the SAP Purchase Order display screen. The top menu bar includes 'Purchase Order', 'Edit', 'Goto', 'Environment', 'System', and 'Help'. The 'Purchase Order' menu is highlighted with a red box. Below the menu bar, there is a toolbar with various icons. The main header area displays 'Standard PO 5800000839 Created by Sudipta Sahoo'. Below this, there is a 'Document Overview' section with tabs for 'Delivery/Invoice', 'Conditions', 'Texts', 'Address', 'Communication', and 'Partners'. The 'Delivery/Invoice' tab is selected. The main content area shows a table with the following fields: Vendor Type, Organization Type, MSE Status, SC/ST Status, and Mode of Procurement. Each field has a dropdown arrow next to it.

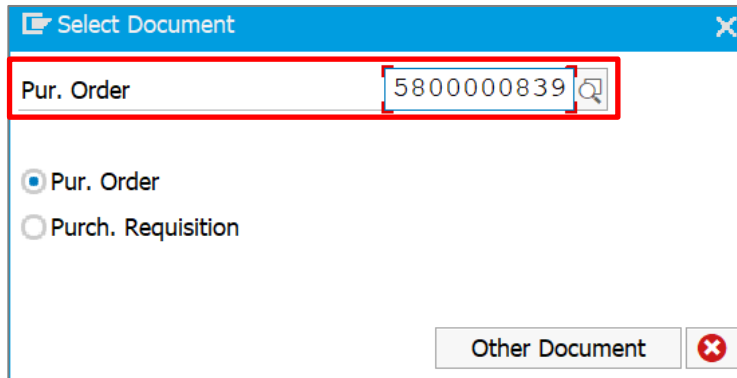
- III. Click **Other Purchase Order** option.



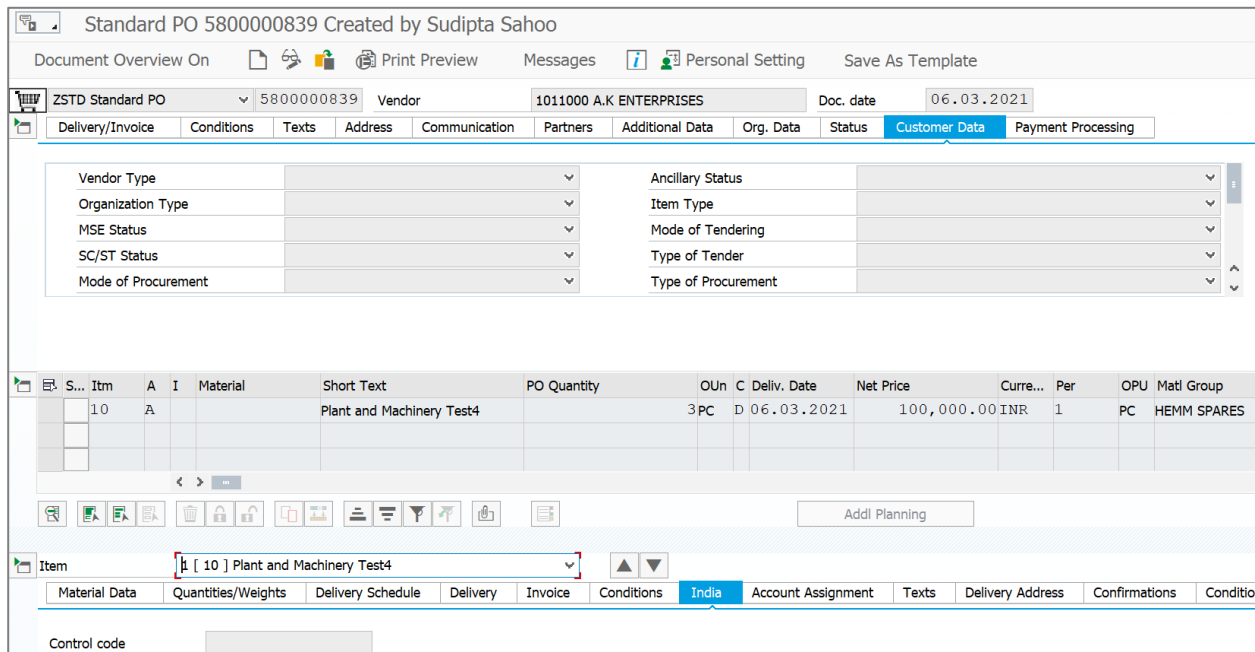
The screenshot shows the same SAP Purchase Order display screen as before, but with the 'Other Purchase Order' menu option highlighted with a red box. The 'Other Purchase Order' menu is open, showing options: 'Create' (F6), 'Display/Change' (F7), 'Save', 'Save and Output', 'Check', and 'Exit' (Shift+F3). The 'Other Purchase Order' option is highlighted with a red box. The main content area shows the same table with fields: Vendor Type, Organization Type, and MSE Status.



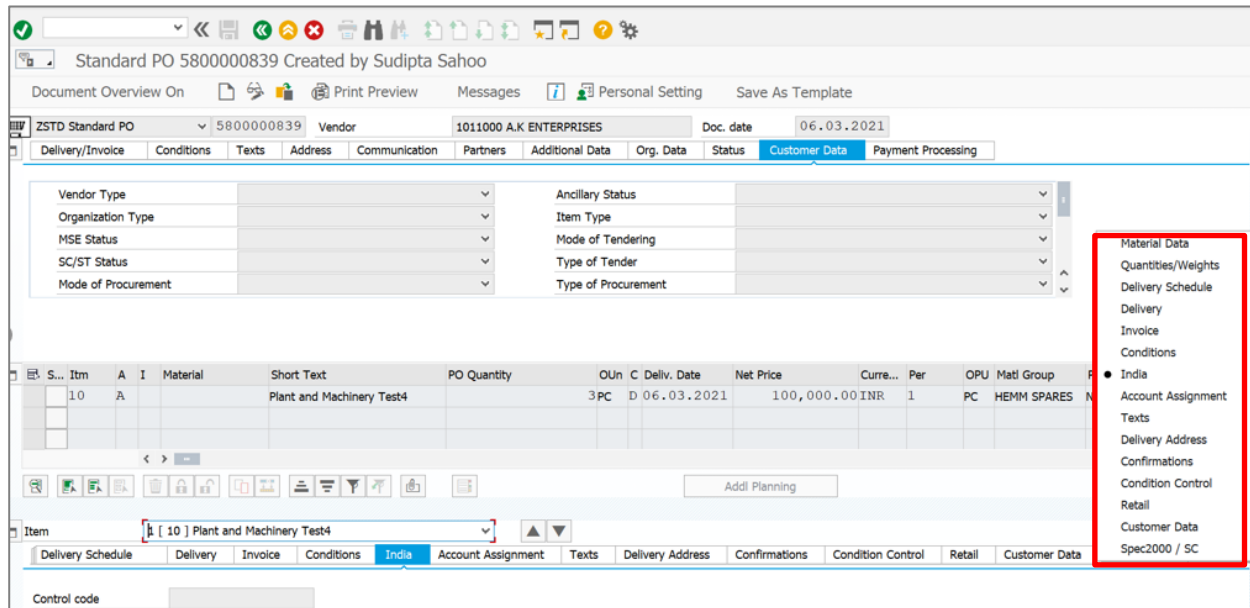
- IV. Enter purchase order number generated in the previous step in **Pur. Order** field.
- V. Press Enter.



Purchase order data will be displayed.



In this example, notice that in PO there is not any purchase order history tab in display PO.  
In such situation, execute transaction code MIGO; PO history tab will generate.



Standard PO 5800000839 Created by Sudipta Sahoo

Document Overview On | Print Preview | Messages | Personal Setting | Save As Template

ZSTD Standard PO 5800000839 Vendor 1011000 A.K ENTERPRISES Doc. date 06.03.2021

Delivery/Invoice | Conditions | Texts | Address | Communication | Partners | Additional Data | Org. Data | Status | Customer Data | Payment Processing

Vendor Type | Organization Type | MSE Status | SC/ST Status | Mode of Procurement | Ancillary Status | Item Type | Mode of Tendering | Type of Tender | Type of Procurement

Material Data  
Quantities/Weights  
Delivery Schedule  
Delivery  
Invoice  
Conditions  
India  
Account Assignment  
Texts  
Delivery Address  
Confirmations  
Condition Control  
Retail  
Customer Data  
Spec2000 / SC

S...	Itm	A	I	Material	Short Text	PO Quantity	OU	C	Deliv. Date	Net Price	Curre...	Per	OPU	Matl Group
	10	A			Plant and Machinery Test4		3	PC	D 06.03.2021	100,000.00	INR	1	PC	HEMM SPARES

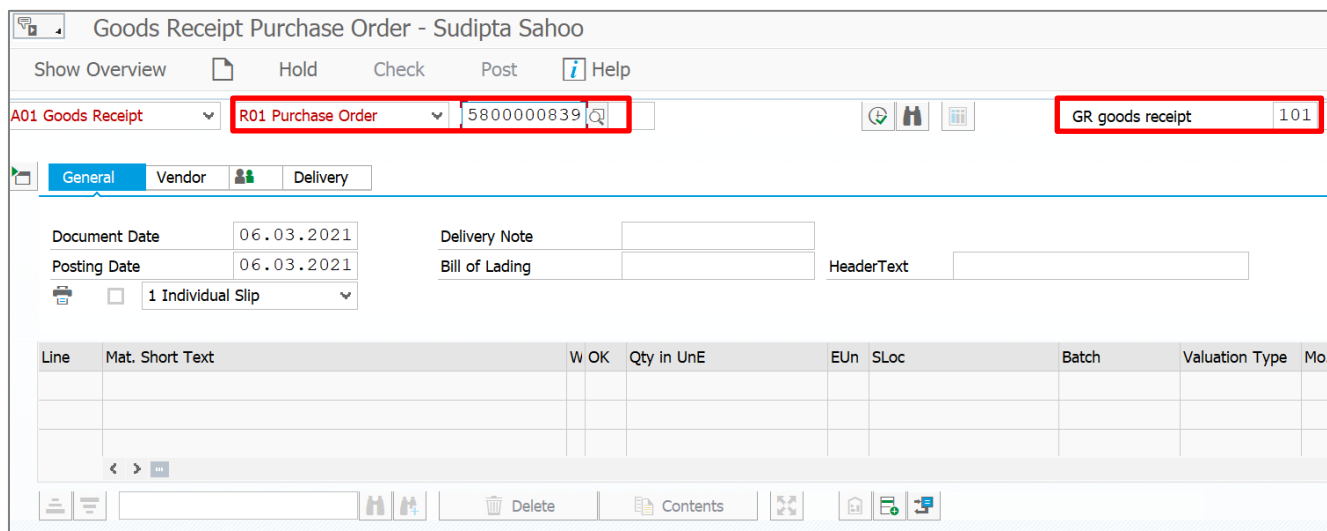
Item [ 10 ] Plant and Machinery Test4

Delivery Schedule | Delivery | Invoice | Conditions | India | Account Assignment | Texts | Delivery Address | Confirmations | Condition Control | Retail | Customer Data

Control code

## Goods Receipt

- I. Execute T-code **MIGO** in SAP command field.
- II. Enter the purchase order number generated in the previous step.
- III. Enter **GR goods receipt** number.
- IV. Press Enter.



Goods Receipt Purchase Order - Sudipta Sahoo

Show Overview | Hold | Check | Post | Help

A01 Goods Receipt | R01 Purchase Order | 5800000839 | GR goods receipt | 101



General | Vendor | Delivery


Document Date 06.03.2021 | Delivery Note | Posting Date 06.03.2021 | Bill of Lading | HeaderText | 1 Individual Slip

Line	Mat. Short Text	W OK	Qty in UnE	EUn	SLoc	Batch	Valuation Type	Mo...

Delete | Contents








V. Click **Item Ok** checkbox.

Show Overview  Hold Check Post  Help

 Head.data

Line	Mat. Short Text	W OK	Qty in UnE	EUn	SLoc	Asset
1	Plant and Machinery Test4	<input type="checkbox"/>	3	PC		990000000011

< > ...

   Delete  Contents   



Material **Quantity** Where Purchase Order Data Partner Account Assignment Custom Data

Qty in Unit of Entry 3 PC


Qty in Delivery Note



Quantity Ordered 3 PC


No. Containers

 Item OK Line 1 

VI. Click the **Check** button. The process completion message is displayed at the bottom of the page.





 Goods Receipt Purchase Order 5800000839 - Sudipta Sahoo


Show Overview  Hold **Check** Post  Help

 Head.data

Line	Status	Mat. Short Text	W OK	Qty in
1	OO	Plant and Machinery Test4	<input checked="" type="checkbox"/>	3

< > ...

   Delete  Contents



 Material **Quantity** Where Purchase Order Data Partner Account Assignment


Qty in Unit of Entry 3 PC

Qty in Delivery Note

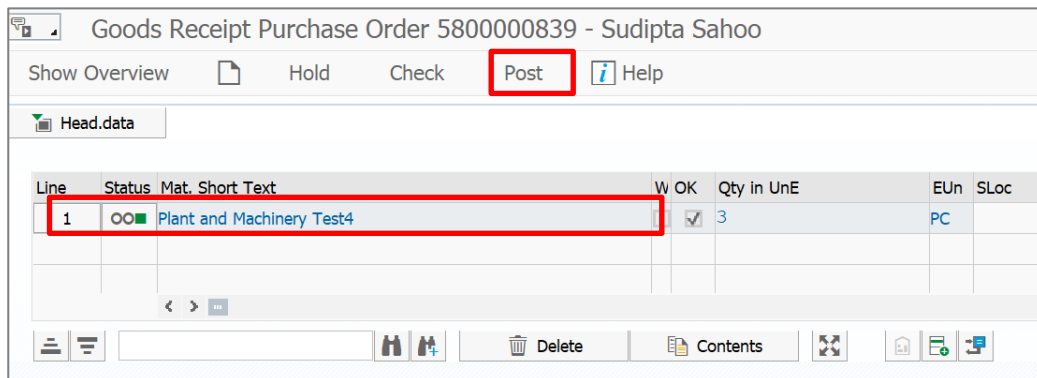
Quantity Ordered 3 PC

No. Containers

 Item OK Line 1 

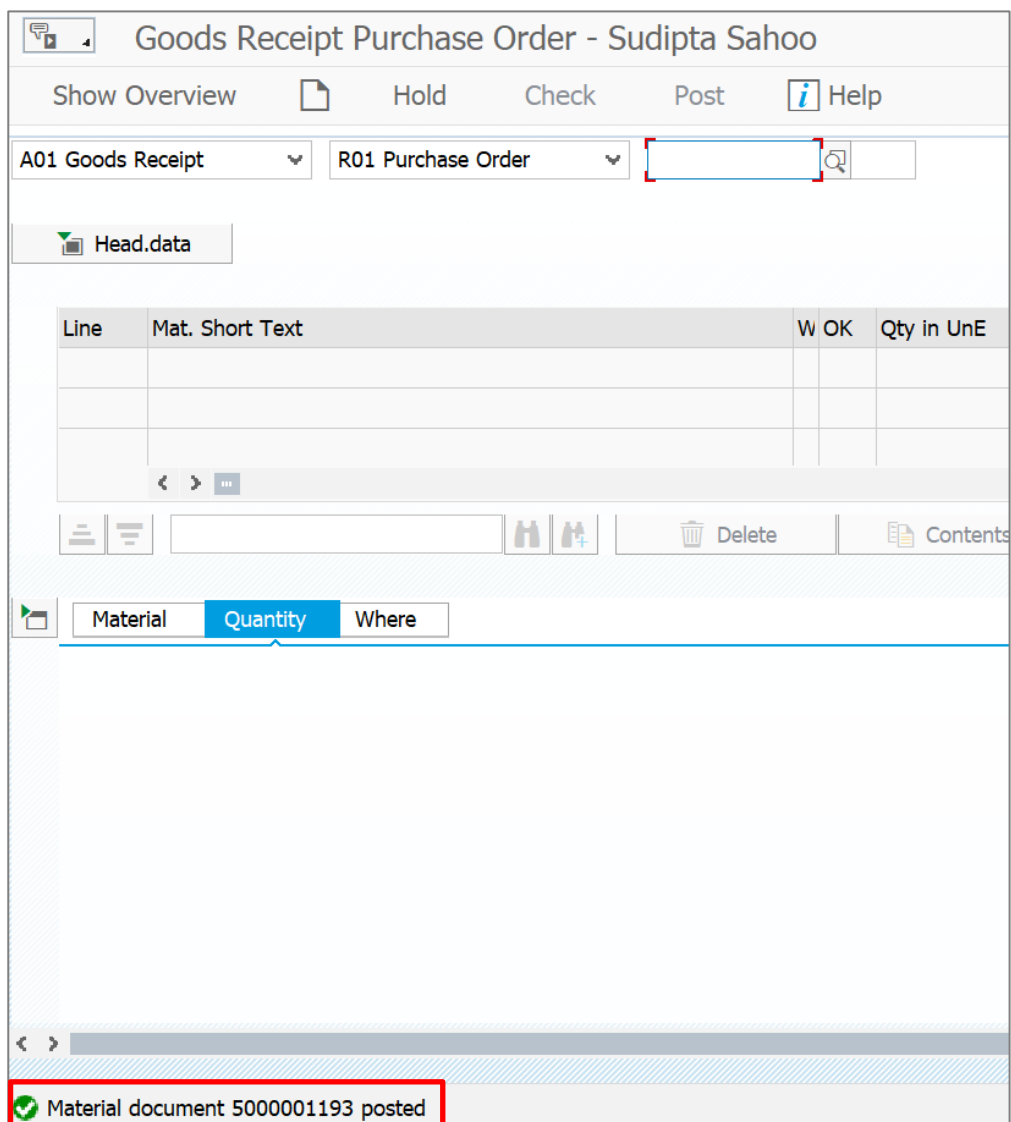
 Document is O.K.

VII. Click the **Post** button.



Line	Status	Mat. Short Text	W OK	Qty in UnE	EUn	SLoc
1	OO	Plant and Machinery Test4	<input checked="" type="checkbox"/>	3	PC	

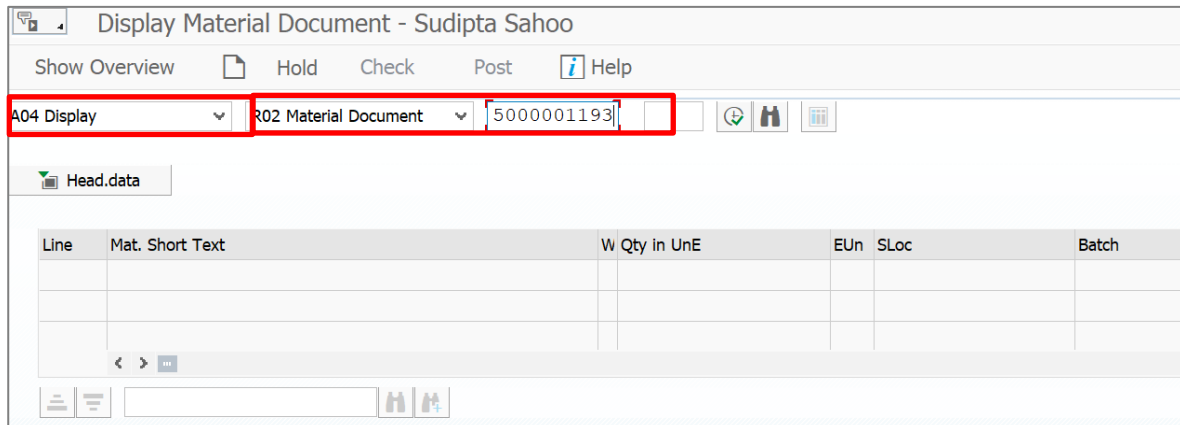
A message is displayed at the bottom of the page.



Material document 5000001193 posted

### Display Goods Receipts

- I. In the document type, select **Display** option from the drop-down menu.
- II. Enter material document number.



Display Material Document - Sudipta Sahoo

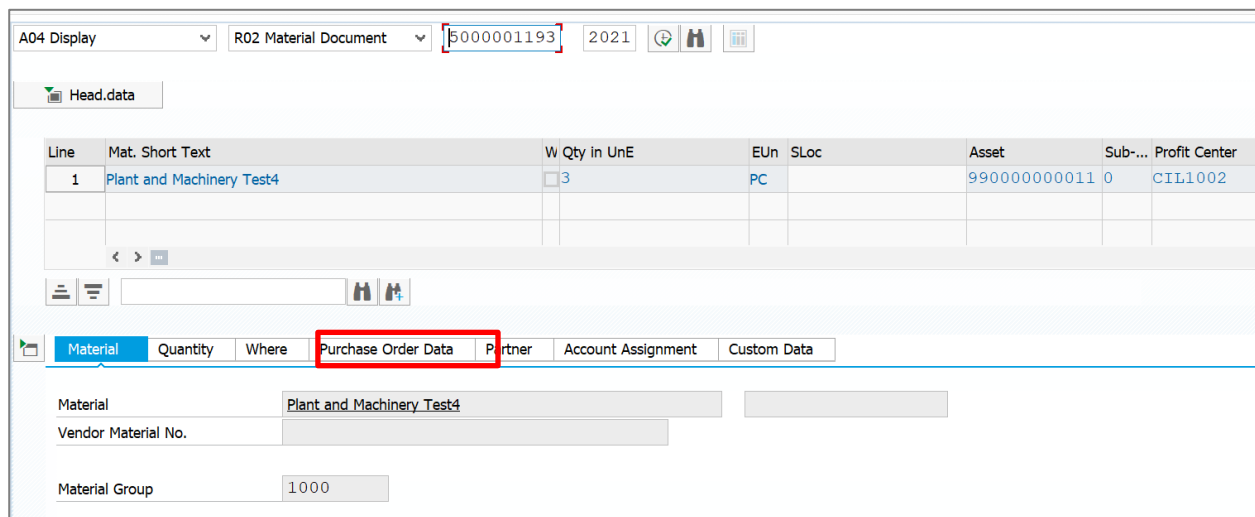
Show Overview | Hold | Check | Post | Help

A04 Display | R02 Material Document | 5000001193

Head.data

Line	Mat. Short Text	W Qty in UnE	EUn	SLoc	Batch

- III. Press enter.
- IV. Click the **Purchase Order Data** tab to view purchase order history.



A04 Display | R02 Material Document | 5000001193 | 2021

Head.data

Line	Mat. Short Text	W Qty in UnE	EUn	SLoc	Asset	Sub-...	Profit Center
1	Plant and Machinery Test4	3	PC		9900000000011	0	CIL1002

Material | Quantity | Where | **Purchase Order Data** | Partner | Account Assignment | Custom Data

Material: Plant and Machinery Test4

Vendor Material No.:

Material Group: 1000

- V. Double click on the purchase order number.

A04 Display    R02 Material Document    5000001193    2021

Head.data


Line	Mat. Short Text	W Qty in UnE	EUn	SLoc
1	Plant and Machinery Test4	3	PC	

Material    Quantity    Where    **Purchase Order Data**    Partner    Account Assignment    Custom Data

Purchase order    5800000839    10    Item category

☒ DCI for Mat. Doc. It    ☒ Del. Compl. Ind. PO

VI. Click the **Purchase Order History** tab. Purchase order history is displayed.

Material Data	Quantities/Weights	Delivery Schedule	Delivery	Invoice	Conditions	India	Account Assignment	Purchase Order History	Texts	Delivery Ad			
<div></div>													
Sh. Text	Mv. Material Document	Item Posting Date	Quantity	Delivery cost quantity	OU	Amount in loc. cur.	L. cur	Qty in OP	DelCostQty (OPU)	Order Price Unit	Amount	Crcy	Reference
WE	101 5000001193	1 06.03.2021	3	0	PC	0.00	INR	3	0	PC	0.00	INR	
Tr./Ev. Goods receipt			3		PC	0.00	INR	3		PC	0.00	INR	

## Invoice Processing

- I. Execute transaction code **MIRO** in SAP command field.
- II. Enter the **Company Code**.
- III. Click ok/continue button.

Enter Company Code

Company Code

☒ ☐

IV. Enter the following details:

- Invoice date
- Bus.place/sectn
- Tax Amount
- Reference
- Click the Calulate tax check box.

V. Under PO Reference tab, enter **Purchase Order** number.

Transaction: 1 Invoice Balance: 354,000.00- INR  
Diff. Posting: Not Applicable

Basic Data | Payment | Details | Tax | Withholding tax | Contacts | Note

Invoice date: 06.03.2021 Reference: 12456  
Posting Date: 06.03.2021  
Amount: INR ☒ Calculate tax  
Tax Amount: 54,000.00 V5 V5 (Inp GST-18% (CGST-9...  
Bus.place/sectn: BP07 / 1002  
Other Details: 3 machinery purchased  
Baseline Date:   
Company Code: CIL Coal India Limited Kolkata

Vendor 0001011000  
A.K ENTERPRISES  
PO Box 111111  
441122 NAGPUR  
INDIA  
9834648393  
Bank acct: 76172319847891  
Axis bank, Kolkata

PO Reference | G/L Account | Material

1 Purchase Order/Scheduling Agreement 5800000839 1 Goods/service items  
Layout: 13\_6310 All Information

Item	Amount	Quantity	Or...	Purchase order	Item	PO Text	Outline agree...
1	300,000.00	3 PC	5800000839	10	Plant and Machinery Test4		

VI. Press enter.

VII. Enter Baseline Date.

Transaction: 1 Invoice Balance: 354,000.00- INR  
Diff. Posting: Not Applicable

Basic Data | **Payment** | Details | Tax | Withholding tax | Contacts | Note

BaselineDt:   
Due on:   
CashDiscnt: INR  
Pmt Method:   
Inv.ref:   
Part. bank:   
Pmnt Terms:   
Days: %  
Days: %  
Days net:   
Fixed:   
Free for payment:   
Pmnt Block:   
House bank: /

Vendor 0001011000  
A.K ENTERPRISES  
PO Box 111111  
441122 NAGPUR  
INDIA  
9834648393  
Bank acct: 76172319847891  
Axis bank, Kolkata

PO Reference | G/L Account | Material

1 Purchase Order/Scheduling Agreement 5800000839 1 Goods/service items  
Layout: 13\_6310 All Information

Item	Amount	Quantity	Or...	Purchase order	Item	PO Text	Outline agree...
1	300,000.00	3 PC	5800000839	10	Plant and Machinery Test4		

Specify payment period baseline date

VIII. Click the **Tax** tab to view tax amount.

Transaction: 1 Invoice  
Diff. Posting: Not Applicable

Basic Data | Payment | Details | **Tax** | Withholding tax | Contacts | Note

D/C	Tax doc.currency	Tax code
S	54,000.00	V5 V5 (Inp GST-

Calculate tax ☒

Net proposal

Delete Row

IX. Click the **Basic Data** tab.

X. Copy the **Balance** amount.

Transaction: 1 Invoice  
Diff. Posting: Not Applicable

Basic Data | Payment | Details | Tax | Withholding tax | Contacts | Note

Balance: 354,000.00- INR

Invoice date: 06.03.2021  
Posting Date: 06.03.2021  
Amount: 54,000.00  
Tax Amount: 54,000.00  
Bus.place/sectn: BP07 / 1002  
Other Details: 3 machinery purchased  
Paymt terms: Due immediately  
Baseline Date: 06.03.2021

Reference: 12456  
INR ☒ Calculate tax  
V5 V5 (Inp GST-18% (CGST-9..

Vendor 0001011000  
A.K ENTERPRISES  
PO Box 111111  
441122 NAGPUR  
INDIA  
9834648393  
Bank acct: 76172319847891  
Axis bank, Kolkata

PO Reference | G/L Account | Material

1 Purchase Order/Scheduling Agreement: 5800000839

Layout: 13\_6310 All Information

Item	Amount	Quantity	Or...	Purchase order	Item	PO Text	Outline agree...
1	300,000.00	3 PC	5800000839	10	Plant and Machinery Test4		

XI. Paste the copied balance amount in the **Amount** column under 'PO Reference' tab.

XII. Press Enter. A message is displayed at the bottom of the page.



Transaction: 1 Invoice  
Diff. Posting: Not Applicable  
Balance: 0.00 INR

Basic Data | Payment | Details | Tax | Withholding tax | Contacts | Note

Invoice date: 06.03.2021  
Posting Date: 06.03.2021  
Amount: 354,000.00  
Tax Amount: 54,000.00  
Bus.place/sectn: BP07 / 1002  
Other Details: 3 machinery purchased  
Paymt terms: Due immediately  
Baseline Date: 06.03.2021

Reference: 12456  
INR  
Calculate tax  
V5 V5 (Inp GST-18% (CGST-9...

Vendor 0001011000  
A.K ENTERPRISES  
PO Box 111111  
441122 NAGPUR  
INDIA  
9834648393  
Bank acct: 76172319847891  
Axis bank, Kolkata

PO Reference | G/L Account | Material

1 Purchase Order/Scheduling Agreement | 5800000839 | 1 Goods/service Items

Item	Amount	Quantity	Or...	Purchase order	Item	PO Text	Outline agree...
1	300,000.00	3	PC	5800000839	10	Plant and Machinery Test4	

Vendor 1011000 is subject to withholding tax

SAP | ECQ (1) 100

XIII. Click the **Withholding tax** tab to enter TDS.

Transaction: 1 Invoice  
Diff. Posting: Not Applicable  
Balance: 0.00 INR

Basic Data | Payment | Details | Tax | **Withholding tax** | Contacts | Note

Name of w/hld.tx typ	W/tax...	W/tax base FC	With/tax amt FC	W/tax base
194C-INV Contractor				0.00
194J-INV Mn Profession..				0.00
CGST - Tax Deducted at..				0.00
SGST - Tax Deducted at..				0.00
IGST - Tax Deducted at..				0.00
UGST - Tax Deducted at..				0.00

Vendor 0001011000  
A.K ENTERPRISES  
PO Box 111111  
441122 NAGPUR  
INDIA  
9834648393  
Bank acct: 76172319847891  
Axis bank, Kolkata

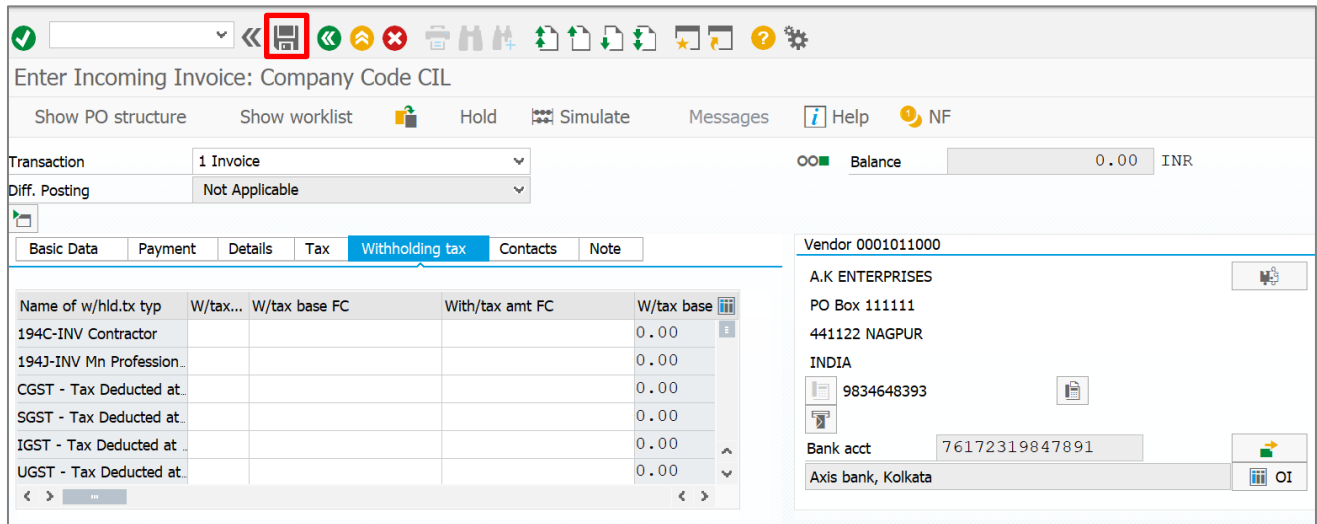
PO Reference | G/L Account | Material

1 Purchase Order/Scheduling Agreement | 5800000839 | 1 Goods/service Items

Item	Amount	Quantity	Or...	Purchase order	Item	PO Text	Outline agree...
1	300,000.00	3	PC	5800000839	10	Plant and Machinery Test4	

SAP | ECQ (1) 100

XIV. Click the save button to post transaction.



Enter Incoming Invoice: Company Code CIL

Show PO structure Show workload Hold Simulate Messages Help NF

Transaction 1 Invoice Balance 0.00 INR

Diff. Posting Not Applicable

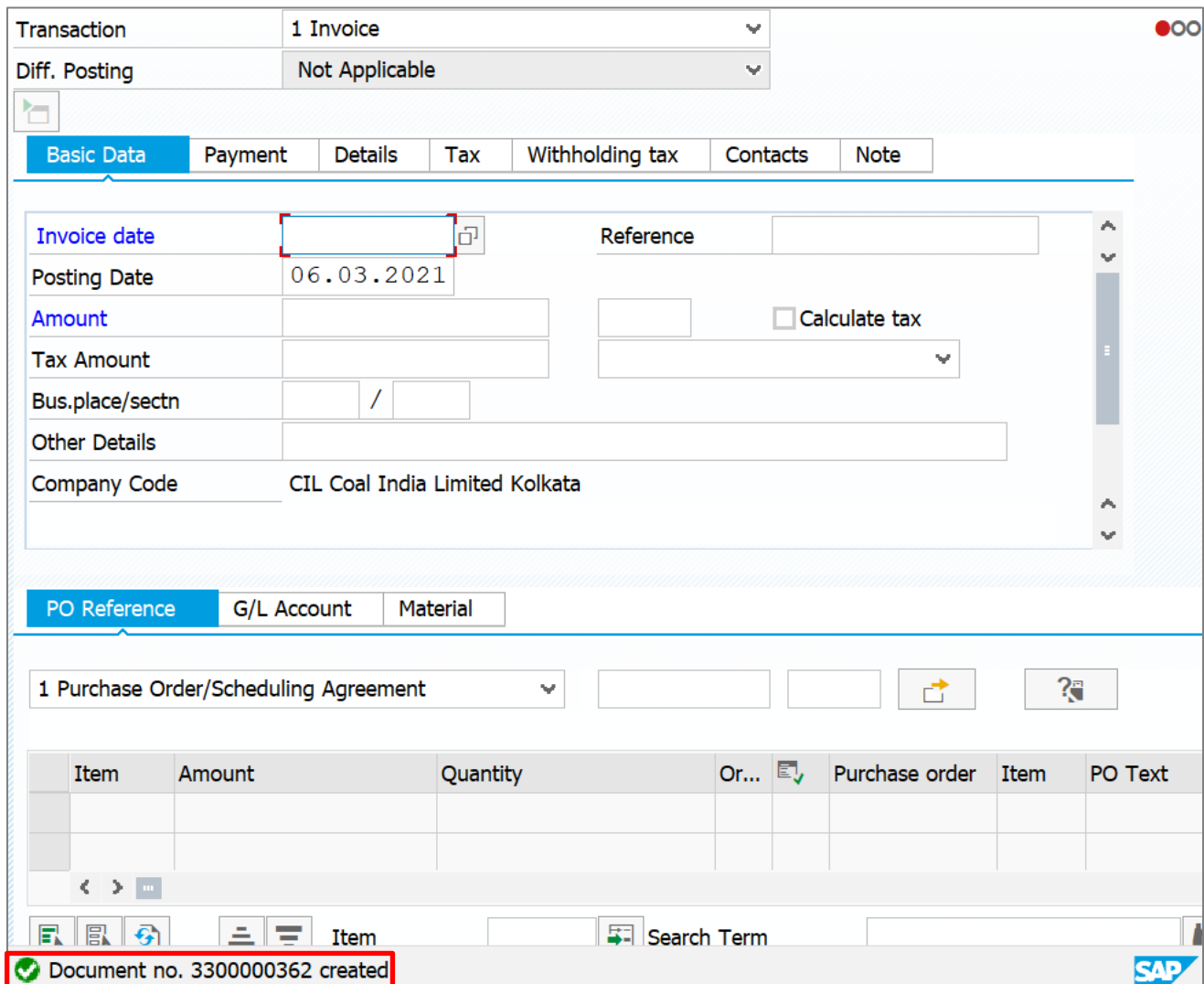
Basic Data Payment Details Tax **Withholding tax** Contacts Note

Name of w/hld.tx typ	W/tax...	W/tax base FC	With/tax amt FC	W/tax base
194C-INV Contractor				0.00
194J-INV Mn Profession...				0.00
CGST - Tax Deducted at...				0.00
SGST - Tax Deducted at...				0.00
IGST - Tax Deducted at...				0.00
UGST - Tax Deducted at...				0.00

Vendor 0001011000

A.K ENTERPRISES  
PO Box 111111  
441122 NAGPUR  
INDIA  
9834648393  
Bank acct 76172319847891  
Axis bank, Kolkata

A message is displayed at the bottom of the page.



Transaction 1 Invoice

Diff. Posting Not Applicable

Basic Data Payment Details Tax Withholding tax Contacts Note

Invoice date [ ] Reference [ ]

Posting Date 06.03.2021

Amount [ ] ☐ Calculate tax

Tax Amount [ ]

Bus.place/sectn [ ] / [ ]

Other Details [ ]

Company Code CIL Coal India Limited Kolkata

PO Reference G/L Account Material

1 Purchase Order/Scheduling Agreement

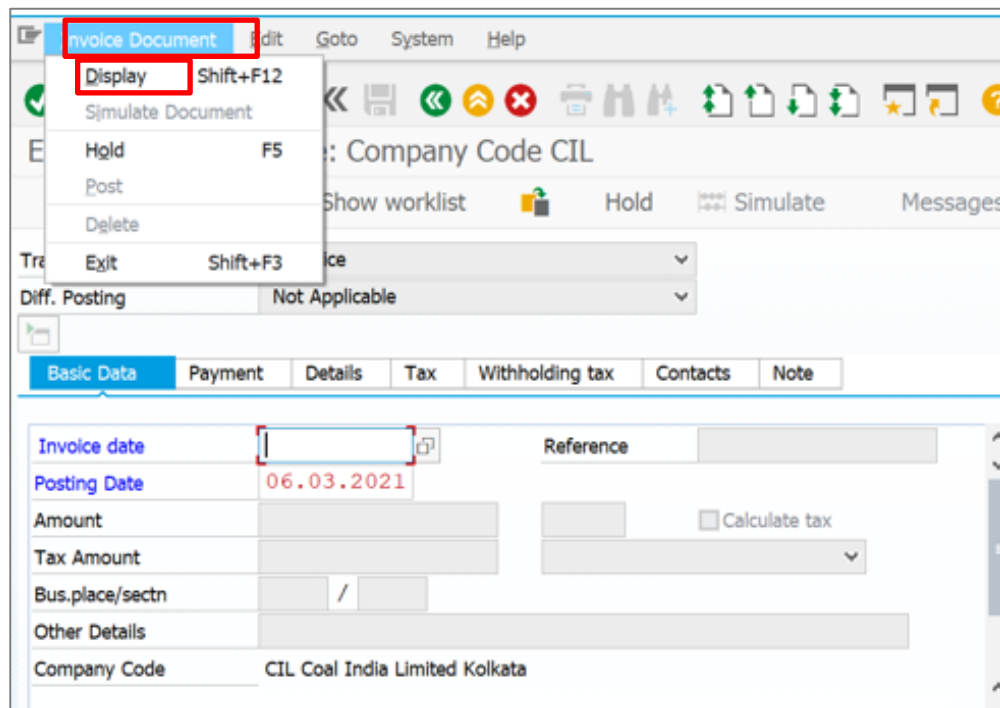
Item	Amount	Quantity	Or...	Purchase order	Item	PO Text

Item Search Term

Document no. 3300000362 created

### View Purchase Order History

- I. Execute t-code **MIRO** from SAP command field.
- II. Click **Invoice Document** menu on top menu bar.
- III. Click the **Display** option.



- IV. Enter **Invoice Document No.**
- V. Enter **Fiscal Year**.
- VI. Press Enter.

Display Document	
Invoice Document No.	3300000362
Fiscal Year	2020

VII. On item level, double click on the required purchase order number.

Layout						
Item	Amount	Quantity	Or...	Purchase order	Item	PO Text
1	300,000.00	3 PC		5800000839	10	Plant and Machinery Test4

VIII. Click the **Purchase Order History** tab to view the purchase order history.

Item

h [ 10 ] Plant and Machinery Test4

Material Data

Quantities/Weights

Delivery Schedule

Delivery

Invoice

Conditions

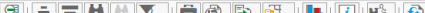
India

Account Assignment

Purchase Order History

Texts

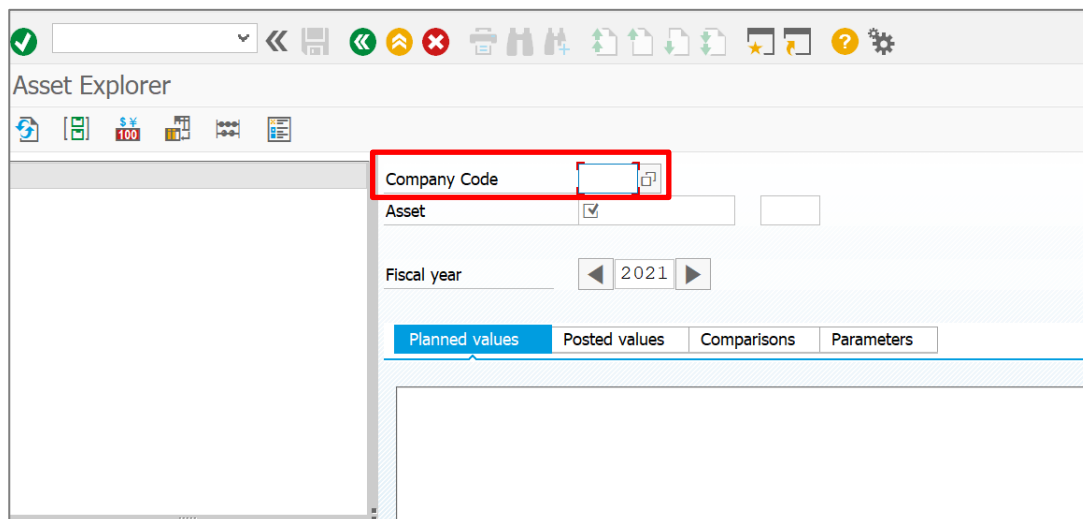
Delivery Address



Sh. Text	MvT	Material	Document	Item	Posting Date	Quantity	Delivery cost	quantity	OU	in	loc.	cur.	L. cur	in	OPUn	DelCostQty	(OPUn)	Order Price	Unit	Amount	Crcy	Reference
WE	101	50000001193			1 06.03.2021	3		0	PC			0.00	INR		3		0	PC		0.00	INR	
Tr./Ev. Goods receipt						3			PC			0.00	INR		3		0	PC		0.00	INR	
RE-L		3300000362			1 06.03.2021	3		0	PC			300,000.00	INR		3		0	PC		300,000.00	INR	
Tr./Ev. Invoice receipt						3			PC			300,000.00	INR		3			PC		300,000.00	INR	

## Report to AUC Asset Explorer

- I. Execute t-code **AW01N** from SAP command field.
- II. Enter the **Company Code**.



- III. Enter the **Asset** number.
- IV. Select appropriate **Fiscal year**.
- V. Press Enter.

Company Code CIL Coal India Limited

Asset 990000000011 0 Plant and Machinery Test4

Fiscal year 2020

Planned values Posted values Comparisons Parameters

Planned values Book depreciation

Value	Fiscal year start	Change	Year-end Crcy
APC transactions		300,000.00	300,000.00 INR
Investment support			INR
Revaluation APC			INR
Acquisition value		300,000.00	300,000.00 INR
Ordinary deprec.			INR
Special depreciation			INR
Unplanned dep.			INR

Transactions

AssetValDate	Amount	TType	Transaction type name	Crcy
06.03.2021	300,000.00	100	External asset acquisition	INR

VI. Click the **Posted values** tab to view posted depreciation values.

Company Code CIL Coal India Limited

Asset 990000000011 0 Plant and Machinery Test4

Fiscal year 2020

Planned values **Posted values** Comparisons Parameters

Posted dep. values Book depreciation

Value	Fiscal year start	Change	Posted values	Crcy
APC transactions		300,000.00	300,000.00	INR
Investment support				INR
Revaluation APC				INR
Acquisition value		300,000.00	300,000.00	INR
Ordinary deprec.				INR
Special depreciation				INR
Unplanned dep.				INR



Depreciation posted/planned


Status	Status	Per	Ord. dep.	Spec. dep.	Uplnd dep.	Reserves	Interest	Revaluat.	Crcy
Planned	Planned	12	0.00	0.00	0.00	0.00	0.00	0.00	INR
			0.00	0.00	0.00	0.00	0.00	0.00	INR

## Settle AUC Asset

- I. Execute transaction code **AIAB** from SAP command field.
- II. Enter the **Company Code**.
- III. Enter the **Asset** number.
- IV. Click the execute button.

Settlement AuC: Initial screen

  Further selection criteria

Company Code  

Asset

Sub-number










Settings

Layout


Addit. area

'Settlement AUC' screen is displayed. Notice that the 'Status' of the line item is red.

Settlement AuC: Line item list










       Enter  Detach  Settlement

**Company code** CIL  
**Asset** 990000000011 Plant and Machinery Test4  
**Sub-number** 0




Status	DRG	Assign.	DocumentNo	Doc. Date	TType	AsstValDat	Σ	Amount
			5100000040	06.03.2021	100	06.03.2021		300,000.00
								<b>- 300,000.00</b>

V. Select the line required item.

Settlement AuC: Line item list















 Enter
  Detach
  Settlement

**Company code** CIL  
**Asset** 990000000011 Plant and Machinery Test4  
**Sub-number** 0




Status	DRG	Assign.	DocumentNo	Doc. Date	TType	AsstValDat	Σ	Amount
			5100000040	06.03.2021	100	06.03.2021		300,000.00
								<b>300,000.00</b>

VI. Click the **Enter** button.

Settlement AuC: Line item list






 **Enter**
 Detach
  Settlement

**Company code** CIL  
**Asset** 990000000011 Plant and Machinery Test4  
**Sub-number** 0

Status	DRG	Assign.	DocumentNo	Doc. Date	TType	AsstValDat	Σ	Amount
			5100000040	06.03.2021	100	06.03.2021		300,000.00
								<b>300,000.00</b>

VII. Enter the following details:

- Settlement Receiver
- Receiver Short Text
- %: Percentage

VIII. Click the back button.









Notice that the status is in green colour.

Page 44




IX. Select the line item.

Settlement AuC: Line item list















Enter
  Detach
  Settlement

**Company code** CIL  
**Asset** 990000000011 Plant and Machinery Test4  
**Sub-number** 0


Status	DR	Assign.	DocumentNo	Doc. Date	TType	AsstValDat	Σ	Amount
	00	1	5100000040	06.03.2021	100	06.03.2021		300,000.00
								300,000.00

X. Click on **Settlement** button.

Settlement AuC: Line item list







Enter
  Detach
  Settlement


**Company code** CIL  
**Asset** 990000000011 Plant and Machinery Test4  
**Sub-number** 0

Status	DR	Assign.	DocumentNo	Doc. Date	TType	AsstValDat	Σ	Amount
	00	1	5100000040	06.03.2021	100	06.03.2021		300,000.00
								300,000.00

A pop-up window will be displayed.

XI. A notification will appear asking if you want to save the changes. Click the **Yes** button.

**Company code** CIL  
**Asset** 990000000011 Plant and Machinery Test4  
**Sub-number** 0

Status	DR	Assign.	DocumentNo	Doc. Date	TType	AsstValDat	Σ	Amount
	00	1	5100000040					

Post settlement



Data will be lost.

Save changes to distribution rules?

Yes No

The data will be saved and a message is displayed at the bottom.

**AuC Settlement: Initial Screen**

 Execute  60 Line Items

Company code   
 Asset   
 Sub-number

**Date specifications**


Document Date   
 Asset Val. Date   
 Posting Date   
 Period

**Additional specifications**

Other Details   
 Document type   
 Assignment   
 Reference

**Processing options**



☒ Test Run  
☒ Detail List

 Distribution rules saved

XII. Click the **Test Run** to uncheck the option.

XIII. Click the **Execute** button.

**AuC Settlement: Initial Screen**

 Execute  60 Line Items

Company code   
 Asset   
 Sub-number

**Date specifications**

Document Date   
 Asset Val. Date   
 Posting Date   
 Period

**Additional specifications**

Other Details   
 Document type   
 Assignment   
 Reference

**Processing options**

☐ Test Run  
☒ Detail List

The asset transaction is posted and a message is displayed at the bottom of the page.

AuC Settlement: Initial Screen

Company code: CIL  
 Asset: 990000000011 0 Plant and Machinery Test4  
 Period: 12 Posting date: 07.03.2021  
 Fiscal year: 2020 Document date: 07.03.2021  
 Doc. type: AA Val. date: 07.03.2021

Acct Assignment Cat.	Ledge	Settlement Receiver	TT	Amount posted	Currency
Asset	140000000014 0	P&M Final Asset test 1	346	300,000.00	INR
Asset	140000000014 0	P&M Final Asset test 1	*	300,000.00	INR
Asset			*	300,000.00	INR
Asset			*	300,000.00	INR

Asset transaction posted with document no. 100000051

XIV. Execute T-code AW01N to check the asset explorer.

XV. Enter AUC asset number; for example, 990000000011 here.

Company Code: CIL Coal India Limited  
 Asset: 990000000011 0 Plant and Machinery Test4  
 Fiscal year: 2020

Planned values Book depreciation

Value	Fiscal year start	Change	Year-end	Crcy
APC transactions				INR
Investment support				INR
Revaluation APC				INR
Acquisition value				INR
Ordinary deprec.				INR
Special depreciation				INR
Unplanned dep.				INR

Transactions

AssetValDate	Amount	TType	Transaction type name	Crcy
06.03.2021	300,000.00	100	External asset acquisition	INR
07.03.2021	300,000.00-	345	Retmnt transfer of curr-yr acquis f. AuC, line itm	INR

XVI. Enter final asset number to check if the value column acquisition value has increased; for example, final asset number 140000000014 here.

XVII. Press enter to see the final settlement details.

Company Code

CIL

Coal India Limited

Asset

140000000014

0

P&M Final Asset test 1

Fiscal year








◀ 2020 ▶

Planned values

Posted values














Comparisons

Parameters

Planned values Book depreciation

Value	Fiscal year start	Change	Year-end	Crcy
APC transactions		1,300,000.00	1,300,000.00	INR
Investment support				INR
Revaluation APC				INR
Acquisition value		1,300,000.00	1,300,000.00	INR
Ordinary deprec.		5,145.83-	5,145.83-	INR
Special depreciation				INR
Unplanned dep.				INR

Transactions

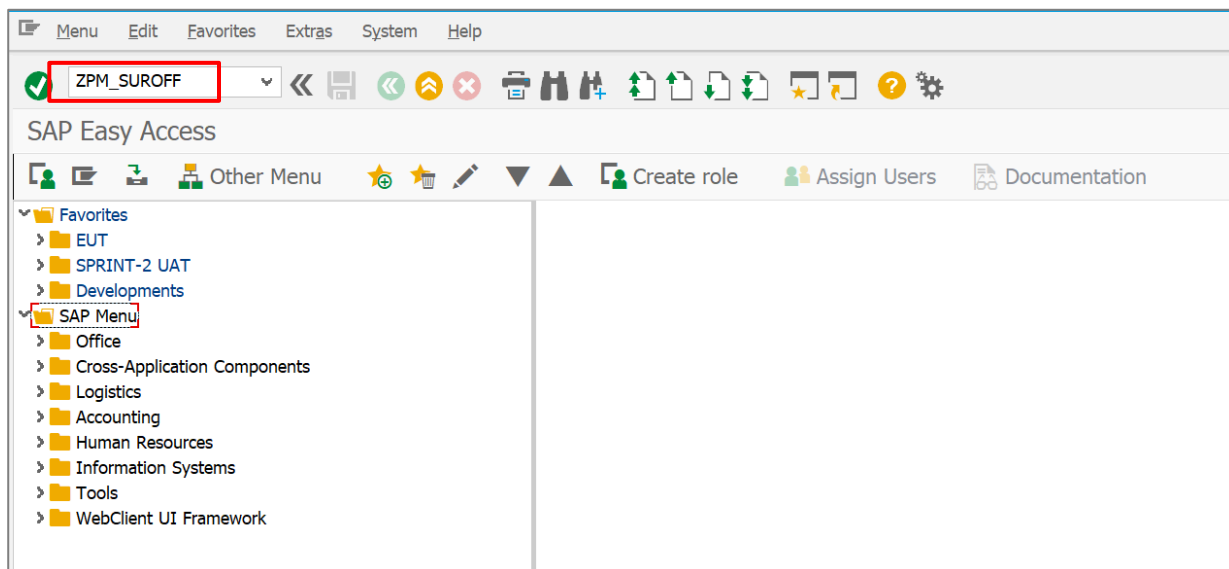
AssetValDate	Amount	TType	Transaction type name	Crcy
06.03.2021	1,000,000.00	100	External asset acquisition	INR
07.03.2021	300,000.00	346	Acquiring transfer of curr-yr acquis. from AuC	INR

## Equipment Survey off Process

Survey off process is used to check the equipment life whether it can be use or not in future. As per standard business scenario the life of Universal Drilling M/C (UDM) is 8 years & 25000 hrs.

### Check Equipment Parameters

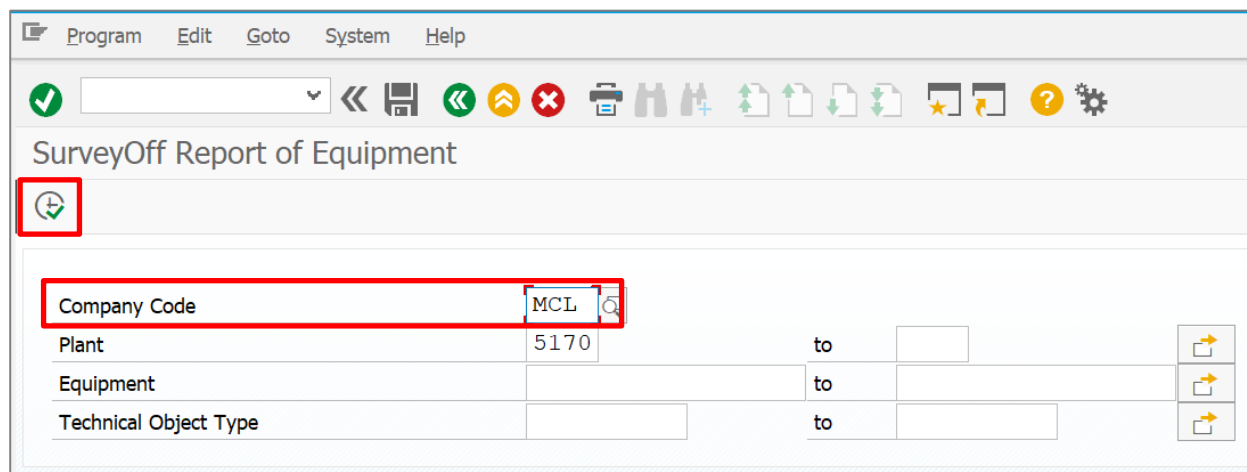
- I. Execute T-code **ZPM\_SUROFF** in the SAP command field.



- II. Enter **Company Code**.

**Note:** Optionally, you can enter other fields required.

- III. Click the execute button.



Equipment wise survey off report is displayed with Z3 Type notification.

#### IV. Click on **Notification** number.

List of Equipment Completed Surveyoff Norms with Notification										
Equipment	Object Description	Technical obj. type Class	Characteristics	RATED_LIFE	Characteristics	RATED_PERFORMANCE	Years	Hours	Company Code	Planning plant
20000360	Universal Drilling M/C (UDM)	258	RATEDLIFE	RATED_LIFE	RATED_PERFORMANCE		8	25000	MCL	5170
										7000000110

In this example, the notification System status as OSNO- Outstanding notification. User Status SCRT-Survey Off Notification is created.

When a survey off notification is created for any equipment the status of same equipment will also change.

#### V. Double click the **Equipment** number to check the equipment status.

PM Notification

Edit

Goto

Extras

Environment

System

Help

Display PM Notification: Survey Off/Grounding

Notification

7000000110

Z3

Notific. Status

OSNO

SCRT

Notification

Additional data 1

Reference object

Functional loc.

Equipment

20000360

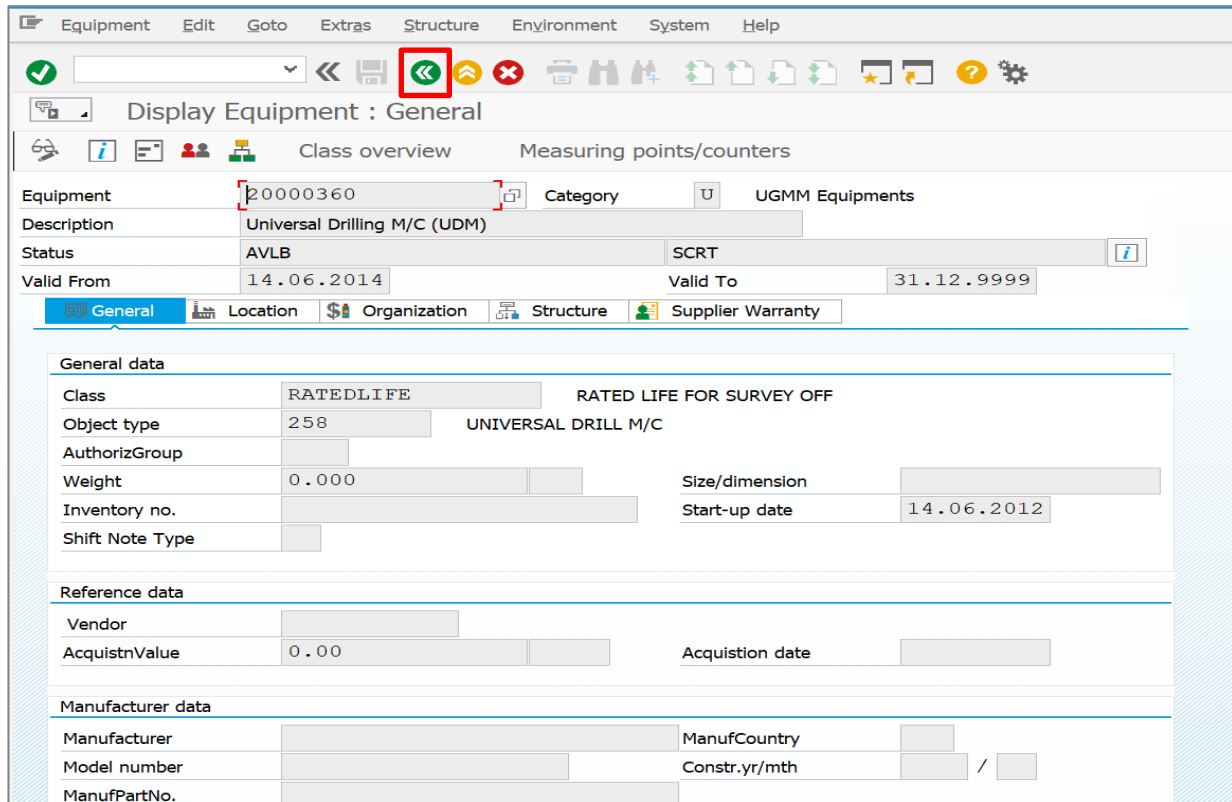
Universal Drilling M/C (UDM)

Assembly

Subject

Description

VI. Click the back button.



Equipment: 20000360 Category: UGMM Equipments  
 Description: Universal Drilling M/C (UDM)  
 Status: AVLB SCRT  
 Valid From: 14.06.2014 Valid To: 31.12.9999

General Location Organization Structure Supplier Warranty

**General data**

Class	RATEDLIFE	RATED LIFE FOR SURVEY OFF	
Object type	258	UNIVERSAL DRILL M/C	
AuthorizGroup			
Weight	0.000	Size/dimension	
Inventory no.		Start-up date	14.06.2012
Shift Note Type			

**Reference data**

Vendor		AcquistnValue	0.00	Acquisition date	
--------	--	---------------	------	------------------	--

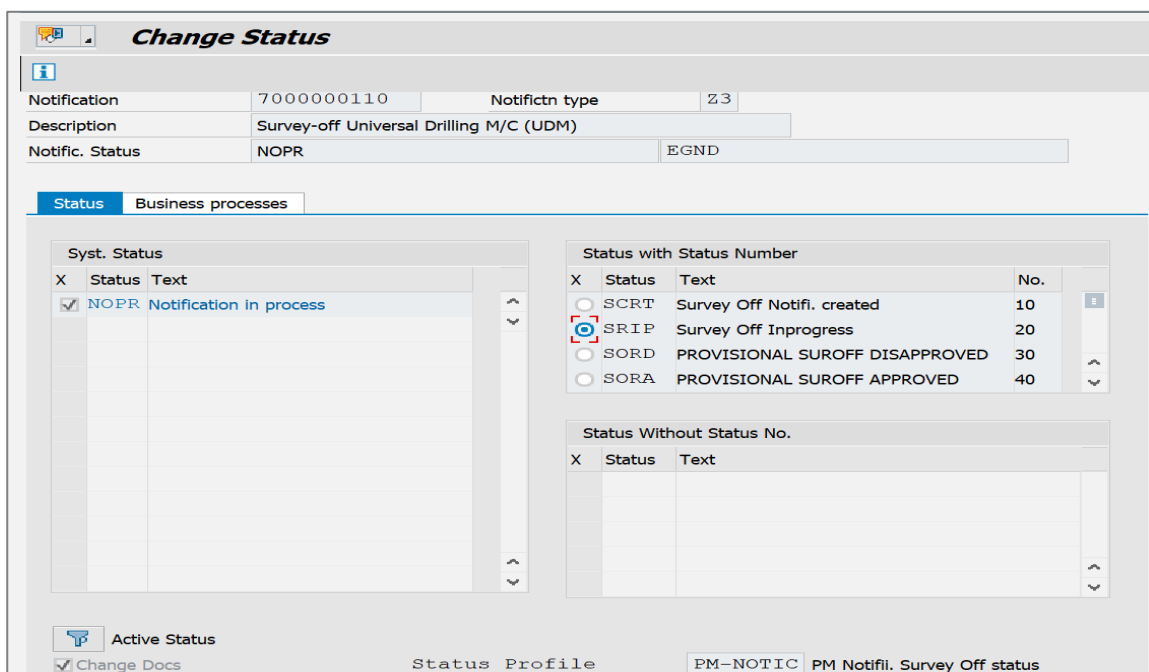
**Manufacturer data**

Manufacturer		ManufCountry	
Model number		Constr.yr/mth	/
ManufPartNo.			

VII. Open the notification in change mode (Tcode-IW22).

The status of notification will change as **NOPR**-Notification in process & SRIP-Survey Off In progress.

VIII. Click the release flag.



Notification: 7000000110 Notifictn type: 23  
 Description: Survey-off Universal Drilling M/C (UDM)  
 Notific. Status: NOPR EGND

Status Business processes

**Syst. Status**

X	Status	Text
<input checked="" type="checkbox"/>	NOPR	Notification in process

**Status with Status Number**

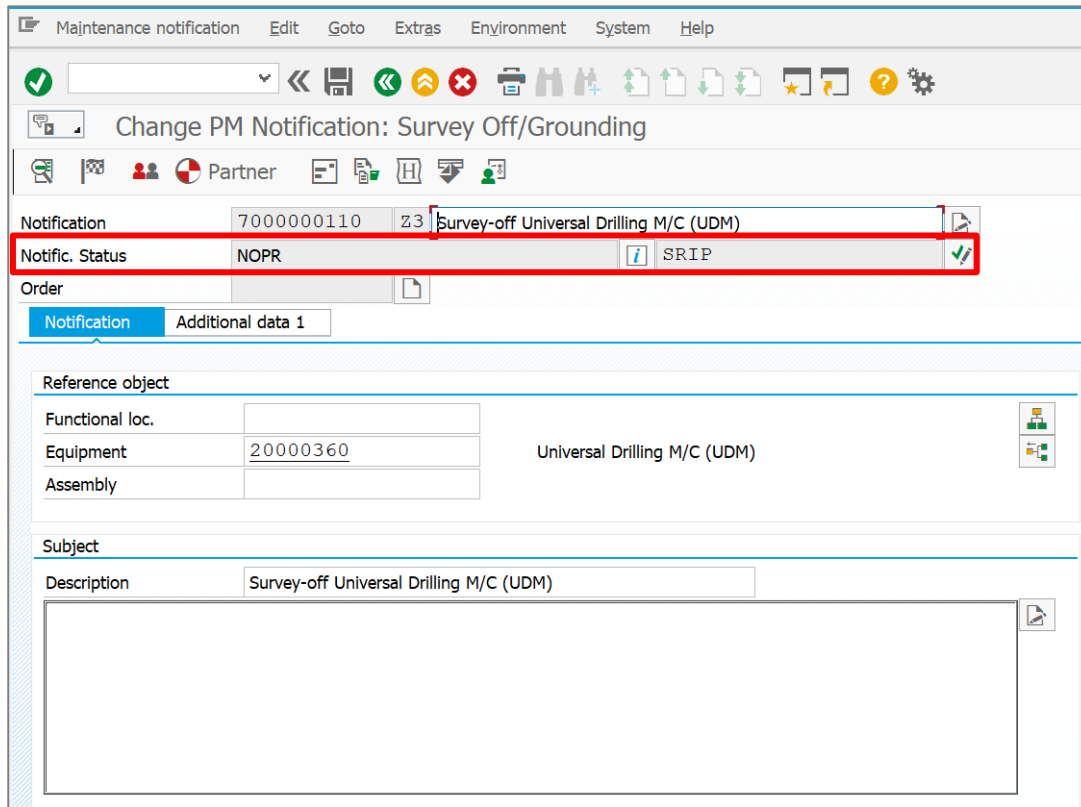
X	Status	Text	No.
<input type="checkbox"/>	SCRT	Survey Off Notifi. created	10
<input checked="" type="checkbox"/>	SRIP	Survey Off Inprogress	20
<input type="checkbox"/>	SORD	PROVISIONAL SUOFF DISAPPROVED	30
<input type="checkbox"/>	SORA	PROVISIONAL SUOFF APPROVED	40

**Status Without Status No.**

X	Status	Text
---	--------	------

Active Status  
 Change Docs Status Profile PM-NOTIC PM Notifil. Survey Off status

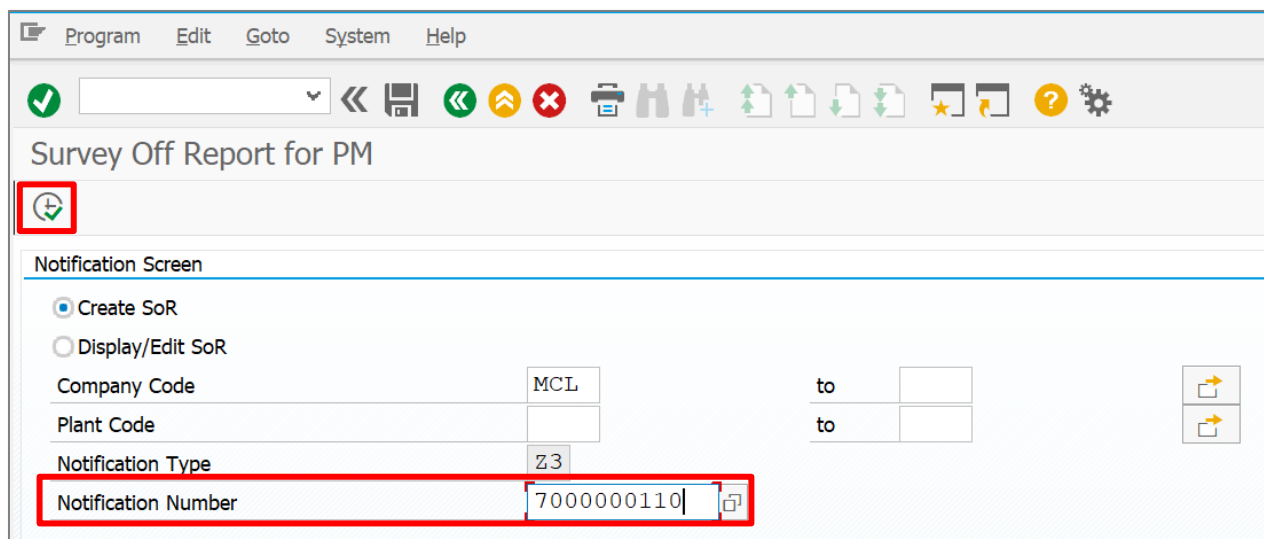
Click the save button. Check the user status for the respective Equipment.



The screenshot shows the SAP Maintenance notification screen. The title bar includes 'Maintenance notification', 'Edit', 'Goto', 'Extras', 'Environment', 'System', and 'Help'. The main area displays 'Change PM Notification: Survey Off/Grounding'. A red box highlights the 'Notification' field with value '7000000110', 'Z3', and 'Survey-off Universal Drilling M/C (UDM)'. Below it, 'Notific. Status' is 'NOPR' and 'SRIP' is visible. The 'Order' field is empty. The 'Reference object' section shows 'Functional loc.' as '20000360' and 'Equipment' as 'Universal Drilling M/C (UDM)'. The 'Subject' section shows 'Description' as 'Survey-off Universal Drilling M/C (UDM)'. The 'Notification' tab is selected, and 'Additional data 1' is also visible.

### Create the Survey off Report

- I. Execute transaction code **ZPM\_SOR** from SAP command field.
- II. Enter **Notification Number**.
- III. Click the execute button.



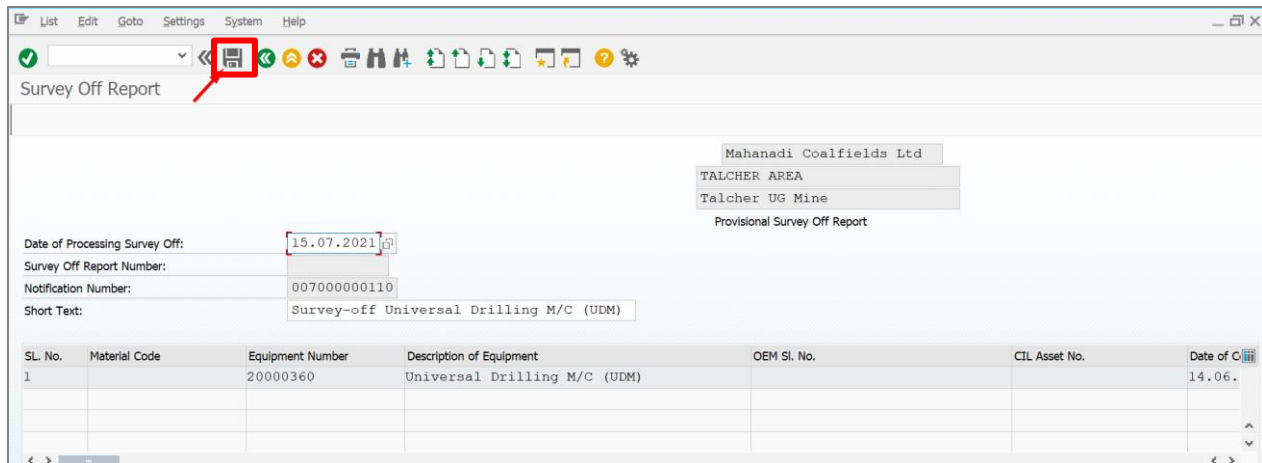
The screenshot shows the SAP 'Survey Off Report for PM' screen. The title bar includes 'Program', 'Edit', 'Goto', 'System', and 'Help'. The main area displays 'Survey Off Report for PM'. A red box highlights the 'Execute' button (a green circle with a white 'X'). Below it, the 'Notification Screen' section shows 'Create SoR' selected. The 'Company Code' is 'MCL', 'Plant Code' is empty, and 'Notification Type' is 'Z3'. The 'Notification Number' field contains '7000000110' and is highlighted with a red box. The 'to' field is empty.



IV. Enter the **Date if Processing Survey Off**.

V. Enter **Short text**.

VI. Click the save button.



Survey Off Report

Mahanadi Coalfields Ltd  
TALCHER AREA  
Talcher UG Mine  
Provisional Survey Off Report

Date of Processing Survey Off: 15.07.2021

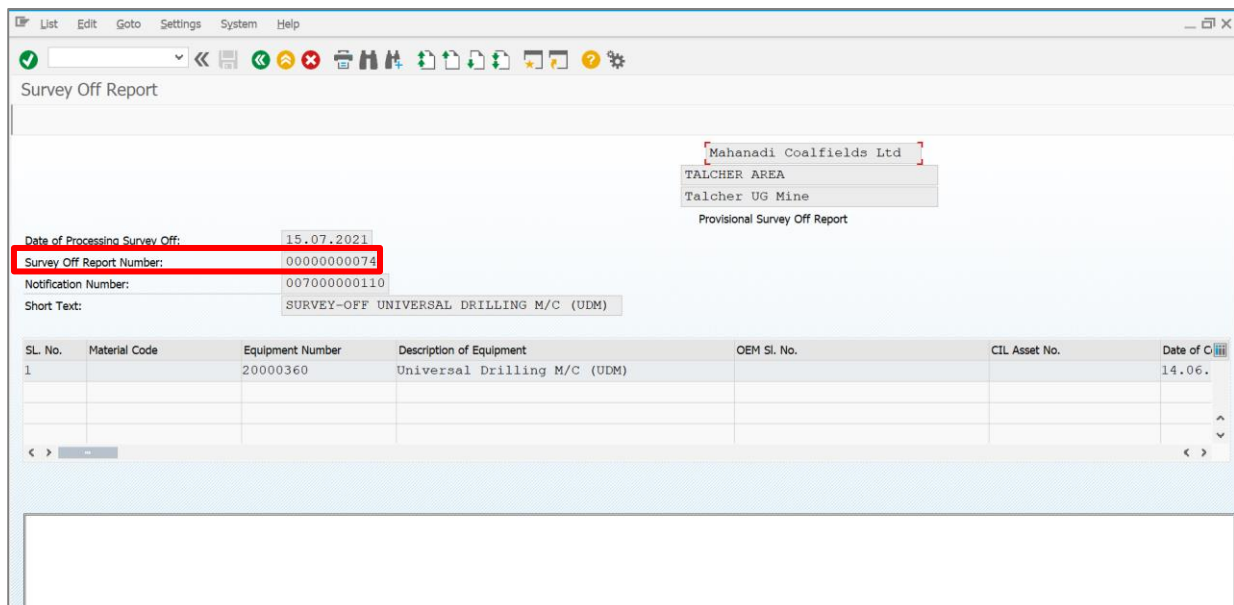
Survey Off Report Number: 007000000110

Notification Number: 007000000110

Short Text: Survey-off Universal Drilling M/C (UDM)

SL. No.	Material Code	Equipment Number	Description of Equipment	OEM Sl. No.	CIL Asset No.	Date of C
1		20000360	Universal Drilling M/C (UDM)			14.06.

Survey off report is generated. Survey off report number is displayed on the screen.



Survey Off Report

Mahanadi Coalfields Ltd  
TALCHER AREA  
Talcher UG Mine  
Provisional Survey Off Report

Date of Processing Survey Off: 15.07.2021

Survey Off Report Number: 00000000074

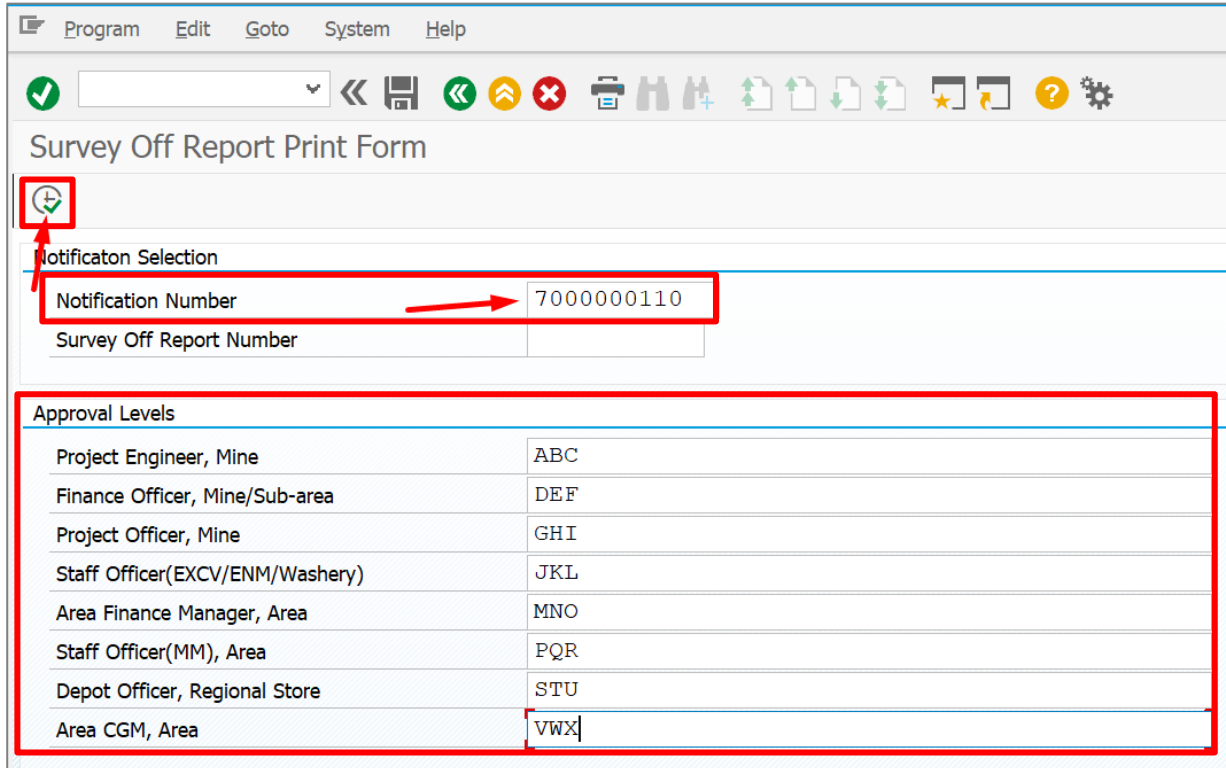
Notification Number: 007000000110

Short Text: SURVEY-OFF UNIVERSAL DRILLING M/C (UDM)

SL. No.	Material Code	Equipment Number	Description of Equipment	OEM Sl. No.	CIL Asset No.	Date of C
1		20000360	Universal Drilling M/C (UDM)			14.06.

## Print Survey off Report

- I. Execute transaction code **ZPM\_SOR\_FORM** in SAP command field.
- II. Enter **Notification Number**.
- III. Enter **Approval Level** details as applicable.
- IV. Click the execute button.



**Survey Off Report Print Form**

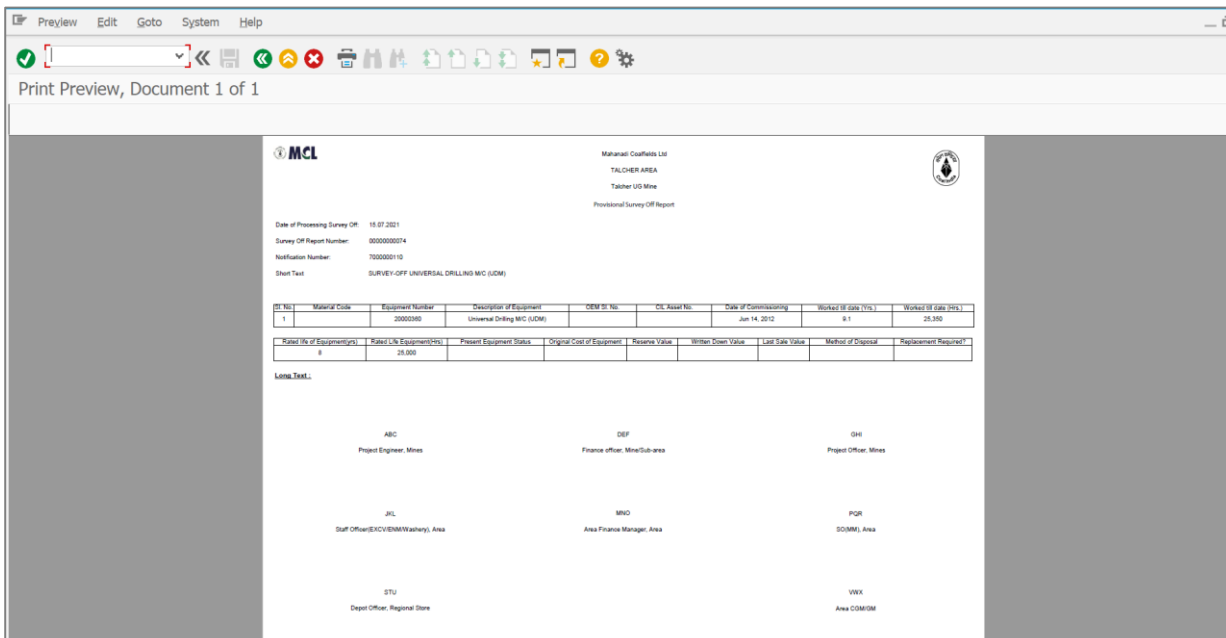
**Notification Selection**

Notification Number	7000000110
Survey Off Report Number	

**Approval Levels**

Project Engineer, Mine	ABC
Finance Officer, Mine/Sub-area	DEF
Project Officer, Mine	GHI
Staff Officer(EXCV/ENM/Washery)	JKL
Area Finance Manager, Area	MNO
Staff Officer(MM), Area	PQR
Depot Officer, Regional Store	STU
Area CGM, Area	VWX

Print preview of the survey off report is displayed.



**Print Preview, Document 1 of 1**

**MCL** Maharastra Coalfields Ltd  
TALCHER AREA  
Talsar UD Mine  
Provisional Survey Off Report

Date of Processing Survey Off: 15.07.2021  
Survey Off Report Number: 0000000074  
Notification Number: 7000000110  
Short Text: SURVEY-OFF UNIVERSAL DRILLING M/C (UDM)

Sl No	Material Code	Equipment Number	Description of Equipment	DEM Sl No	DEM Asset No	Date of Commissioning	Worked (Sl Date Yrs)	Worked (Sl Date Yrs)
1		20000340	Universal Drilling M/C (UDM)			Jun 14, 2012	8.1	25.350

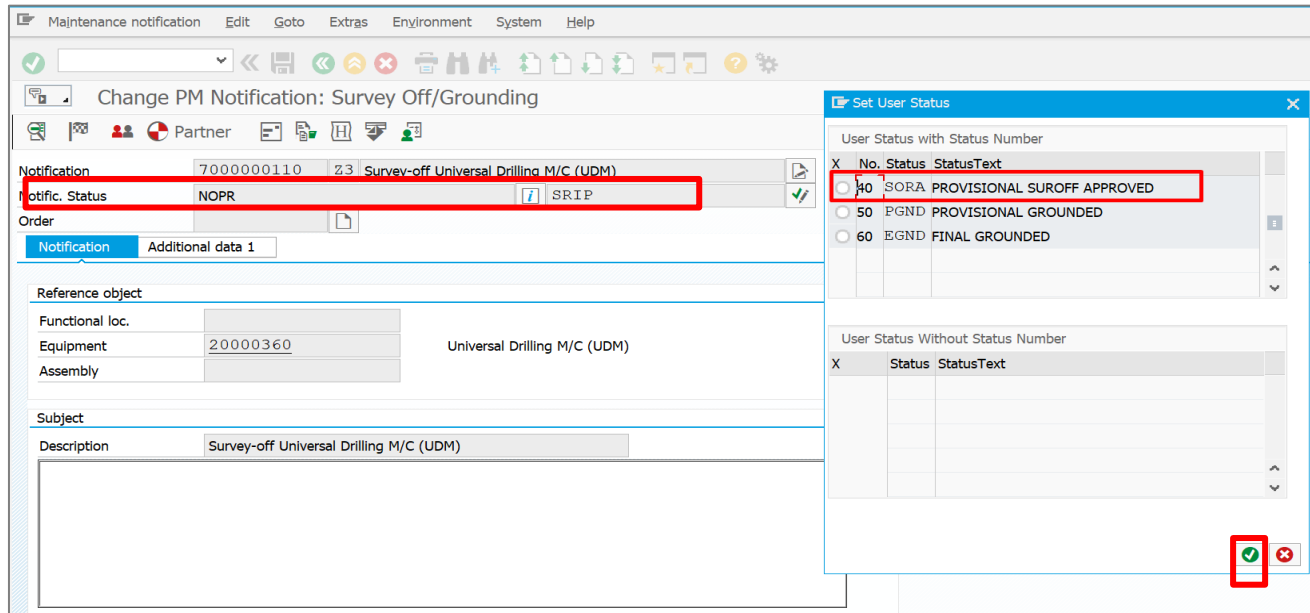
Roll No of Equipment(s)	Roll No of Equipment(s)	Present Equipment Status	Original Cost of Equipment	Reserve Value	Written Down Value	Last Sale Value	Method of Disposal	Replacement Required?
8	25.000							

**Letter Text:**

ABC Project Engineer, Mines	DEF Finance officer, Mine/Sub-area	GHI Project Officer, Mines
JKL Staff Officer(EXCV/ENM/Washery), Area	MNO Area Finance Manager, Area	PQR SOMM), Area
STU Depot Officer, Regional Store	VWX Area CGM/DM	

## Change Notification Status

- I. Execute transaction code **IW22** from SAP command field to change the notification status.
- II. Click the **Notific. Status** button. A pop-up window will be displayed.
- III. Select the status **SORA** from the list.
- IV. Click OK/continue button.

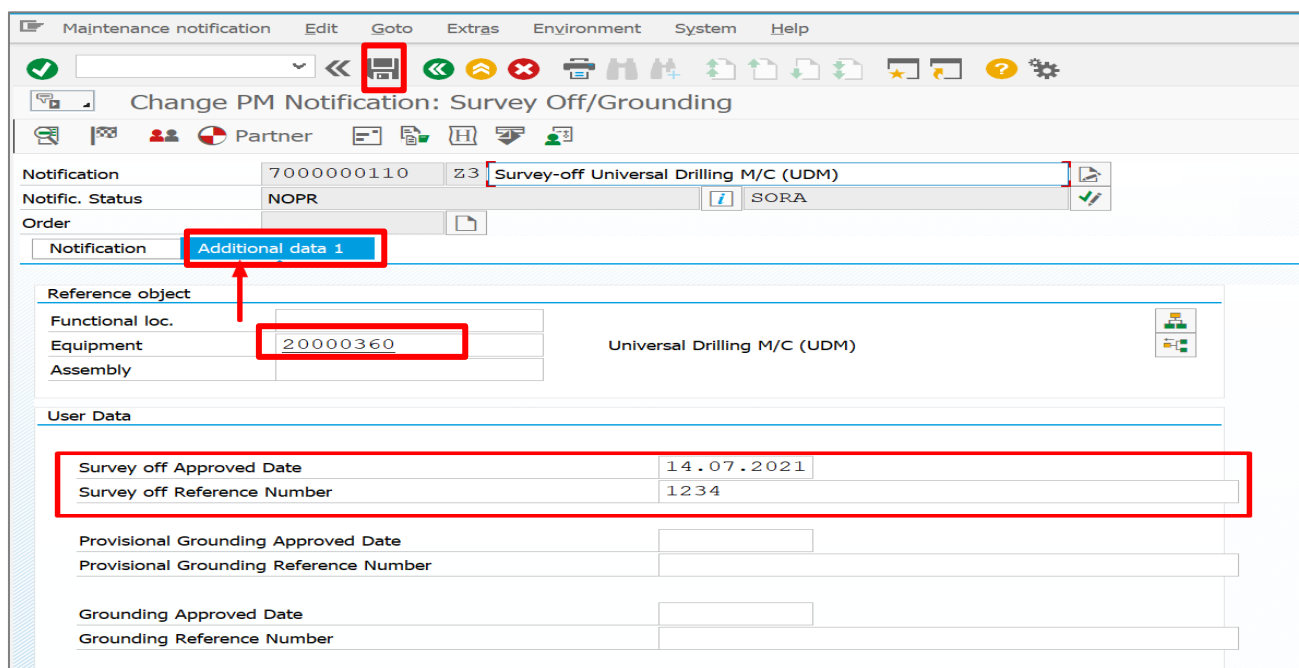


The screenshot shows the 'Set User Status' dialog box in SAP. The 'User Status with Status Number' section contains a table with the following data:

X	No.	Status	StatusText
<input checked="" type="radio"/>	40	SORA	PROVISIONAL SUOFF APPROVED
<input type="radio"/>	50	PGND	PROVISIONAL GROUNDED
<input type="radio"/>	60	EGND	FINAL GROUNDED

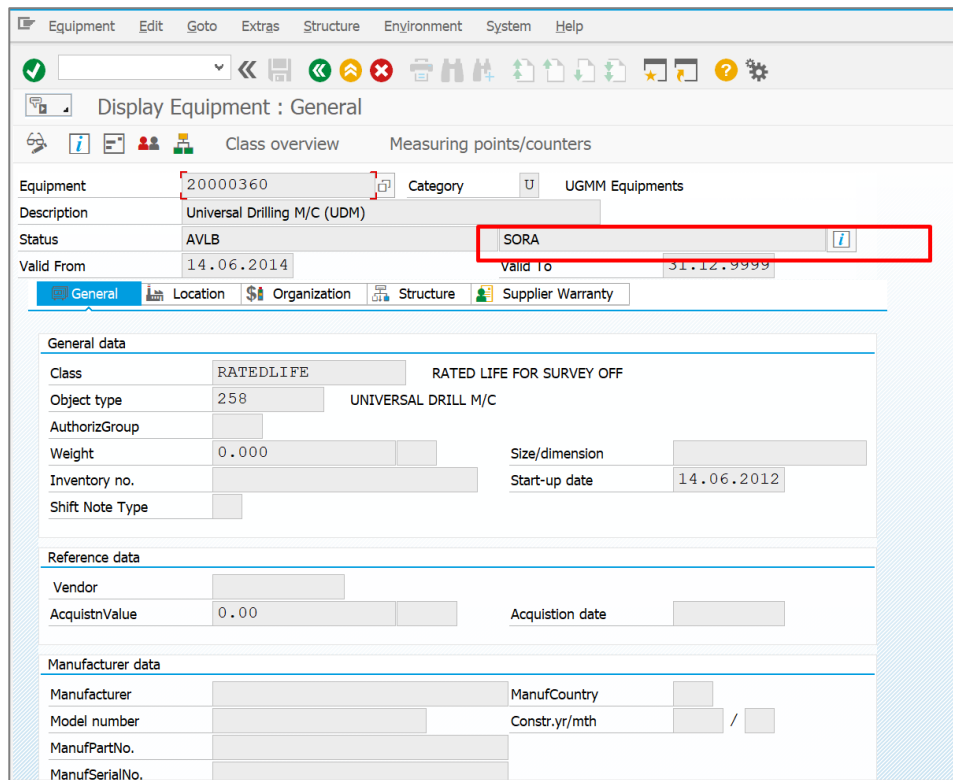
The 'OK' button at the bottom right of the dialog is highlighted with a red box.

- V. Click **Additional data 1** tab.
- VI. Enter **Survey off Approved Date**.
- VII. Enter **Survey off Reference Number**.
- VIII. Click the save button.
- IX. Double click the equipment number.



The screenshot shows the 'Additional data 1' tab in the SAP IW22 transaction. The 'Survey off Approved Date' is entered as '14.07.2021' and the 'Survey off Reference Number' is entered as '1234'. The 'Equipment' number '20000360' is highlighted with a red box.

Notice that the equipment status is also changed.



Equipment: 20000360 Category: UGMM Equipments

Description: Universal Drilling M/C (UDM)

Status: **SORA**

Valid From: 14.06.2014 Valid To: 31.12.9999

General data

Class	RATEDLIFE	RATED LIFE FOR SURVEY OFF
Object type	258	UNIVERSAL DRILL M/C
AuthorizGroup		
Weight	0.000	Size/dimension
Inventory no.		Start-up date
Shift Note Type		14.06.2012

Reference data

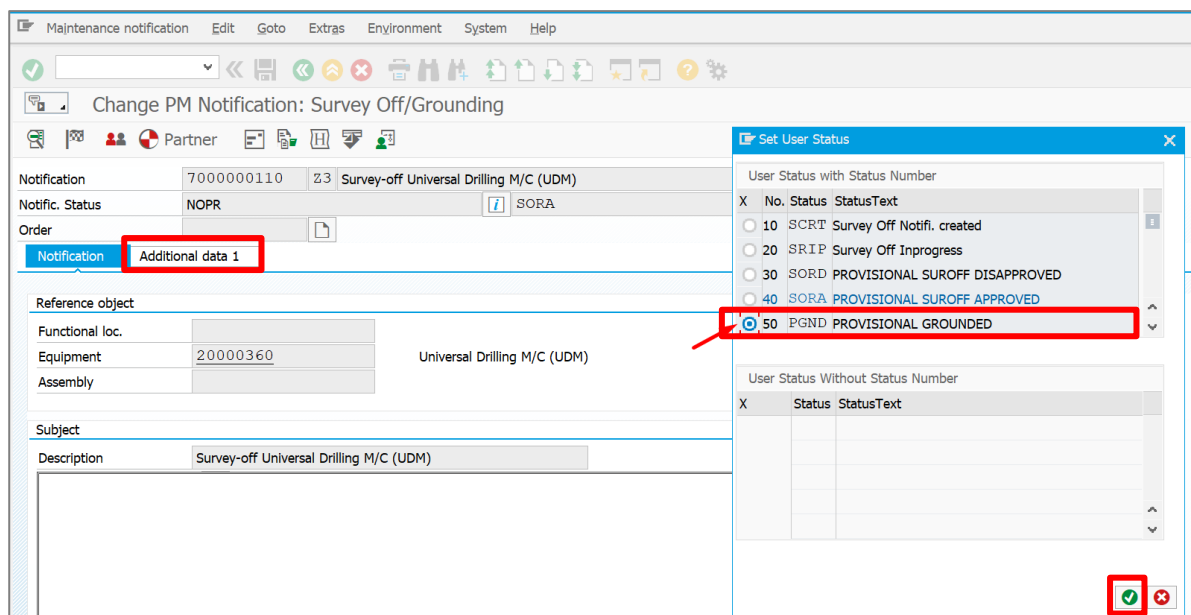
Vendor		
AcquistnValue	0.00	Acquisition date

Manufacturer data

Manufacturer		ManufCountry
Model number		Constr.yr/mth
ManufPartNo.		
ManufSerialNo.		

When the notification status is changed, the same will be reflected on equipment status.

- X. Select the status **PGND- PROVISIONAL GROUNDED**.
- XI. Click **Additional data 1** tab.



Notification: 7000000110 23 Survey-off Universal Drilling M/C (UDM)

Notific. Status: NOPR SORA

Order: Notification Additional data 1

Reference object

Functional loc.		
Equipment	20000360	Universal Drilling M/C (UDM)
Assembly		

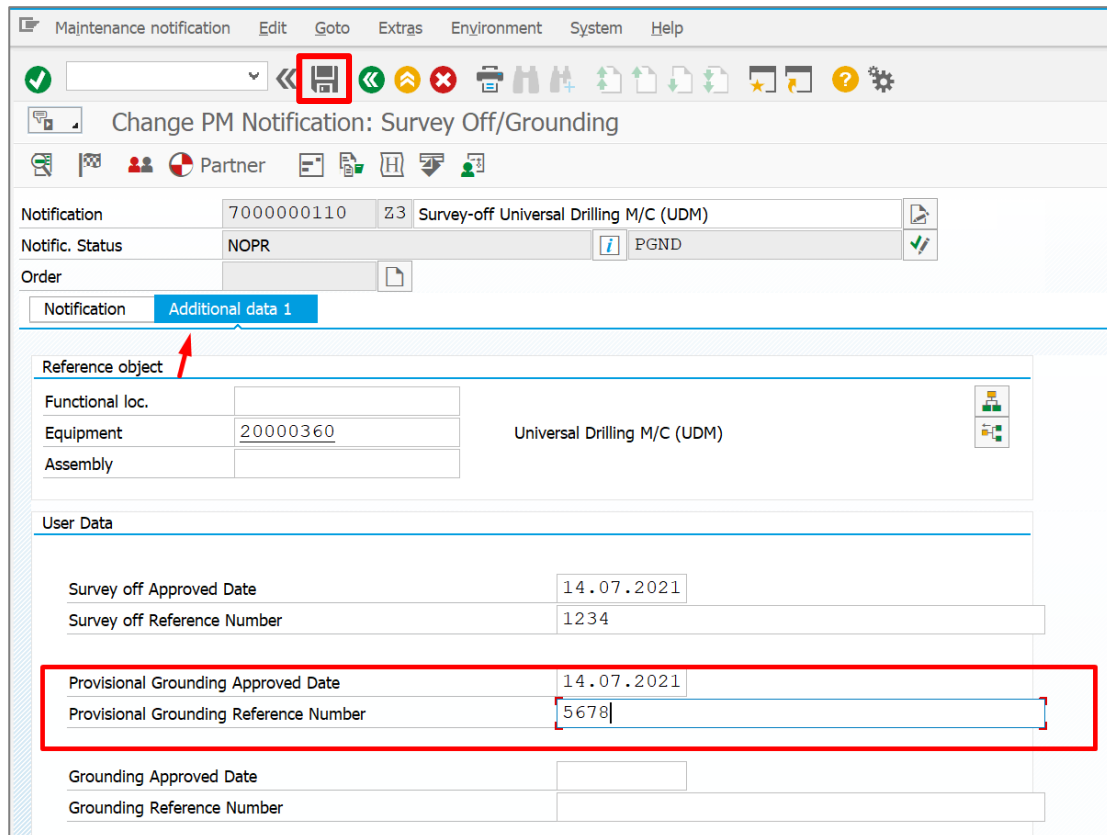
Subject

Description	Survey-off Universal Drilling M/C (UDM)
-------------	---

Set User Status

No.	Status	StatusText
10	SCRT	Survey Off Notifi. created
20	SRIP	Survey Off Inprogress
30	SORD	PROVISIONAL SUOFF DISAPPROVED
40	SORA	PROVISIONAL SUOFF APPROVED
50	PGND	PROVISIONAL GROUNDED

- XII. Enter **Provisional Grounding Approved Date**.
- XIII. Enter **Provisional Grounding Reference Number**.
- XIV. Click the save button.



Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Survey Off/Grounding

Notification 7000000110 Z3 Survey-off Universal Drilling M/C (UDM)

Notific. Status NOPR PGND

Order

Notification Additional data 1

Reference object

Functional loc.

Equipment 20000360 Universal Drilling M/C (UDM)

Assembly

User Data

Survey off Approved Date 14.07.2021

Survey off Reference Number 1234

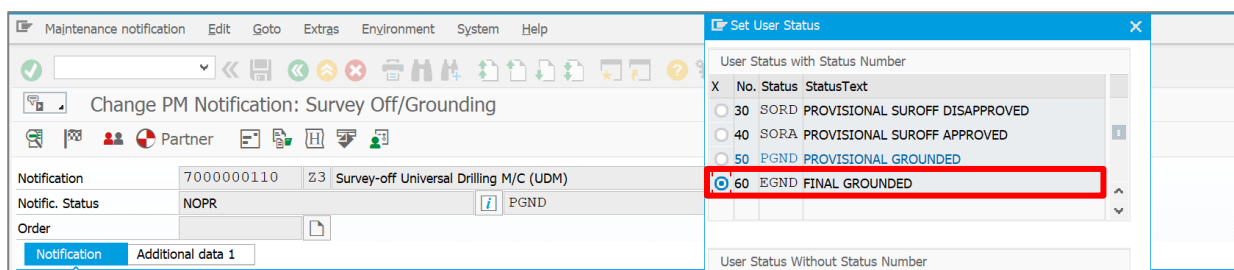
Provisional Grounding Approved Date 14.07.2021

Provisional Grounding Reference Number 5678

Grounding Approved Date

Grounding Reference Number

- XV. Change the notification **Status** to EGND-FINAL GROUNDED.



Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Survey Off/Grounding

Notification 7000000110 Z3 Survey-off Universal Drilling M/C (UDM)

Notific. Status NOPR PGND

Order

Notification Additional data 1

Set User Status

User Status with Status Number

X	No.	Status	StatusText
<input type="radio"/>	30	SORD	PROVISIONAL SUROFF DISAPPROVED
<input type="radio"/>	40	SORA	PROVISIONAL SUROFF APPROVED
<input type="radio"/>	50	PGND	PROVISIONAL GROUNDED
<input checked="" type="radio"/>	60	EGND	FINAL GROUNDED

User Status Without Status Number

- XVI. Click **Additional data 1** tab.
- XVII. Enter **Grounding Approved Date**.
- XVIII. Enter **Grounding Reference Number**.

Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Survey Off/Grounding

Notification 7000000110 Z3 Survey-off Universal Drilling M/C (UDM)

Notific. Status NOPR EGND

Order

Notification Additional data 1

Reference object

Functional loc.

Equipment 20000360 Universal Drilling M/C (UDM)

Assembly

User Data

Survey off Approved Date 14.07.2021

Survey off Reference Number 1234

Provisional Grounding Approved Date 14.07.2021

Provisional Grounding Reference Number 5678

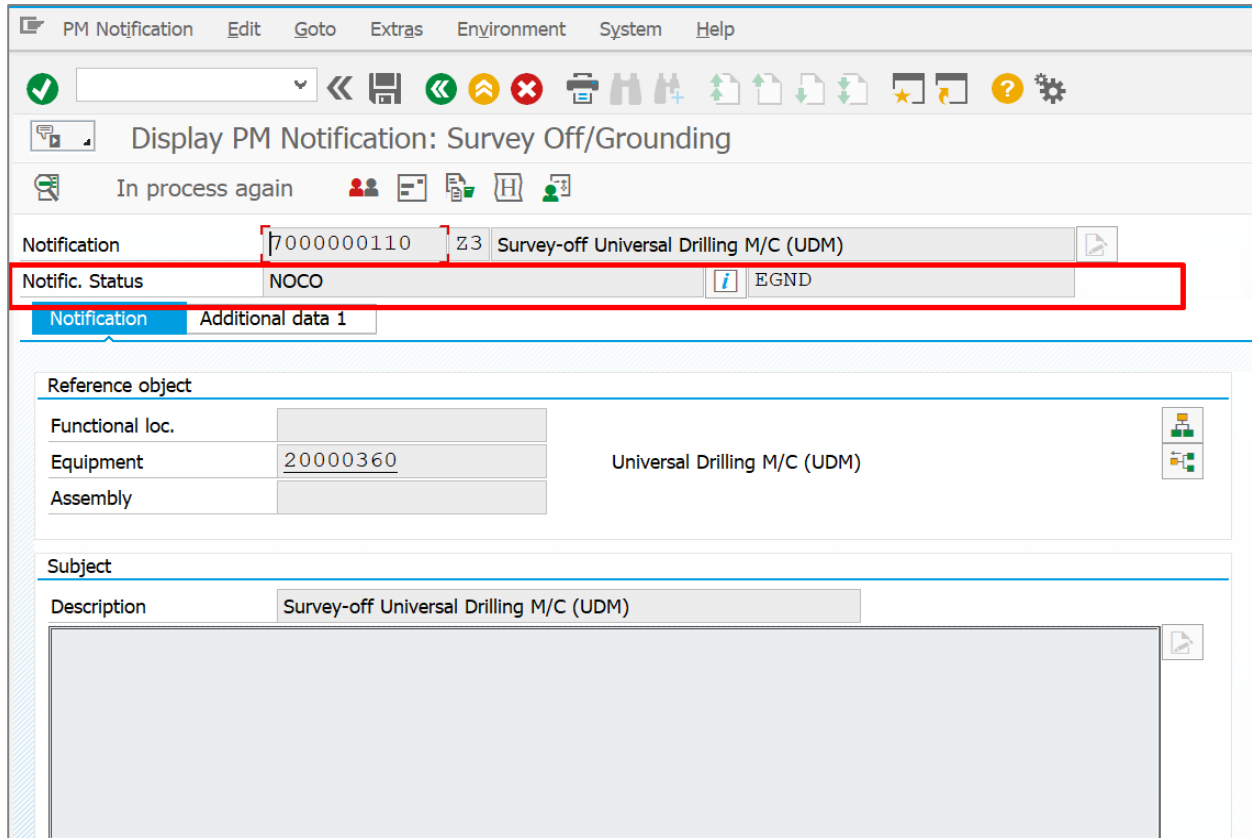
Grounding Approved Date 14.07.2021

Grounding Reference Number 9876

When the equipment is finally grounded we will do NOCO (Notification closed). After NOCO, the equipment status will change from AVLB to AVLB DLFL.

Where DLFL is Deletion Flag.

Dynamic selection of Notification User Status can be chosen before EGND (Final Grounded).



PM Notification | Edit | Goto | Extras | Environment | System | Help

Display PM Notification: Survey Off/Grounding

In process again

Notification: 7000000110 | Z3 | Survey-off Universal Drilling M/C (UDM)

Notific. Status: NOCO | EGND

Notification | Additional data 1

Reference object

Functional loc.:

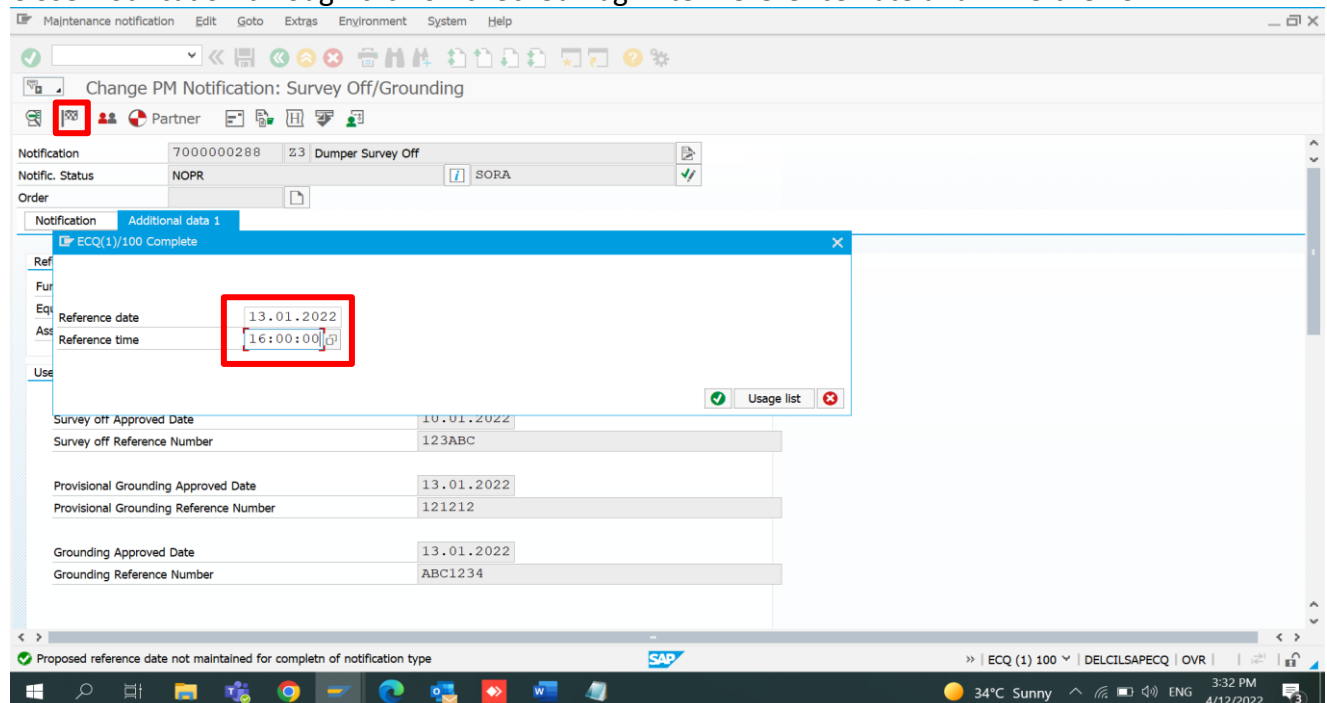
Equipment: 20000360 | Universal Drilling M/C (UDM)

Assembly:

Subject

Description: Survey-off Universal Drilling M/C (UDM)

Close Notification through click on checked Flag Enter Reference Date and Time then SAVE.



Maintenance notification | Edit | Goto | Extras | Environment | System | Help

Change PM Notification: Survey Off/Grounding

Notification: 7000000288 | Z3 | Dumper Survey Off

Notific. Status: NOPR | SORA

Order:

Notification | Additional data 1

ECQ(1)/100 Complete

Ref:

Fur:

Eq:

Ass:

Use:

Reference date: 13.01.2022

Reference time: 16:00:00

Usage list

Survey off Approved Date	10.01.2022
Survey off Reference Number	123ABC
Provisional Grounding Approved Date	13.01.2022
Provisional Grounding Reference Number	121212
Grounding Approved Date	13.01.2022
Grounding Reference Number	ABC1234

Proposed reference date not maintained for completion of notification type

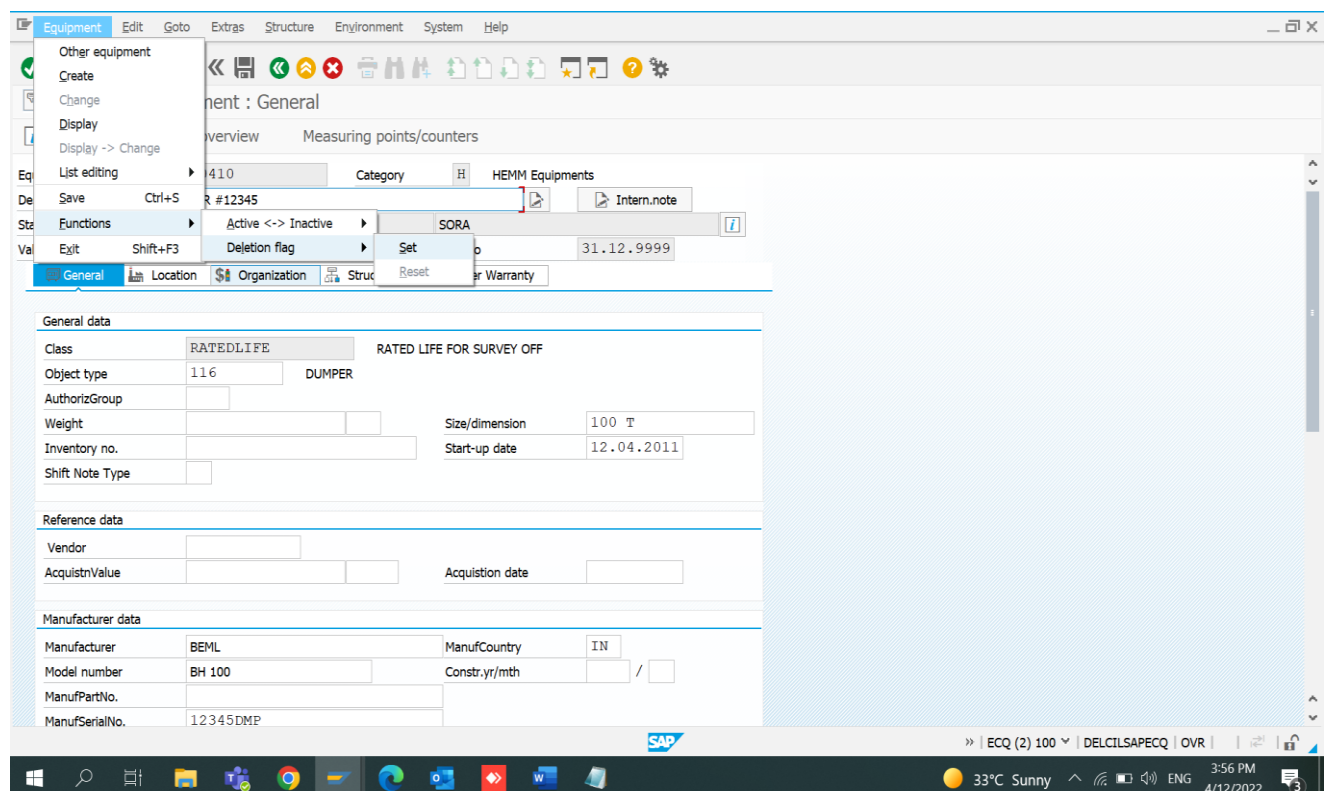
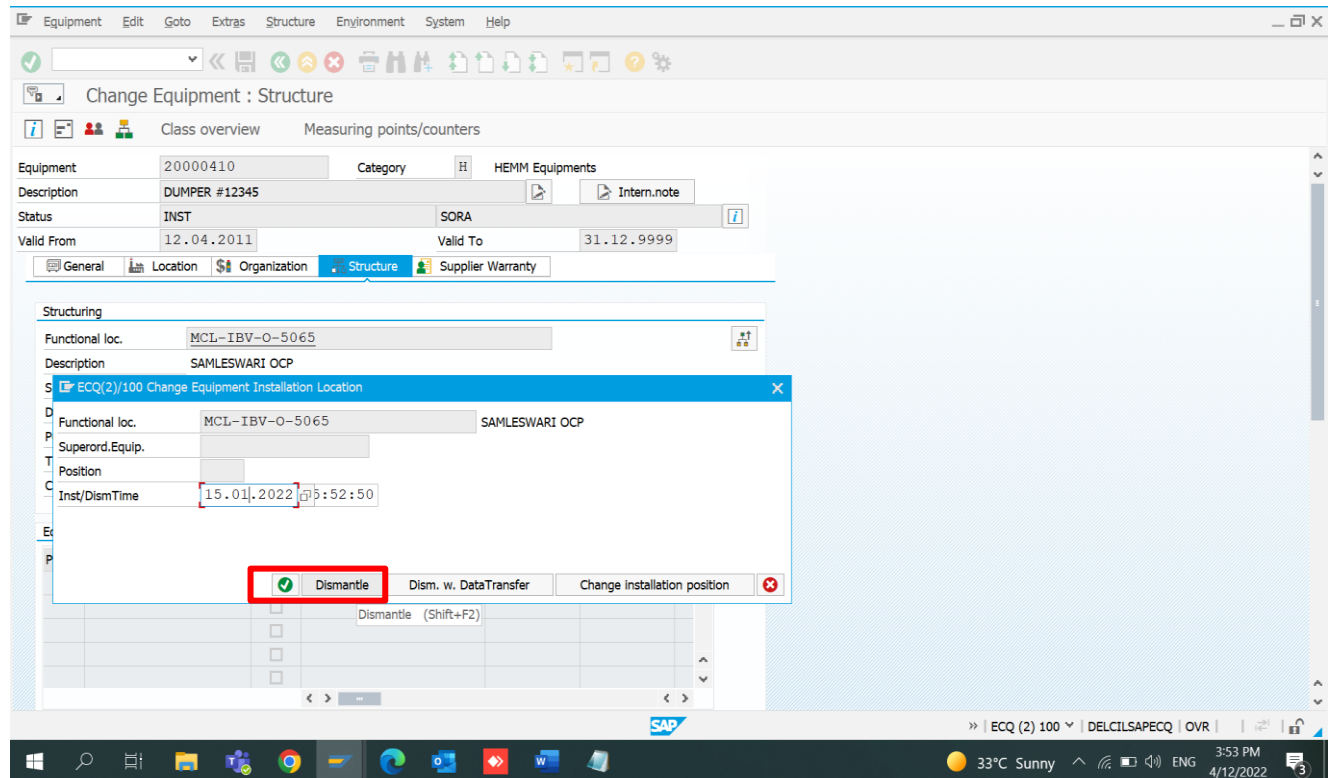
SAP

ECQ (1) 100 | DELCILSAPECQ | OVR | 34°C Sunny | 3:32 PM | 4/12/2022



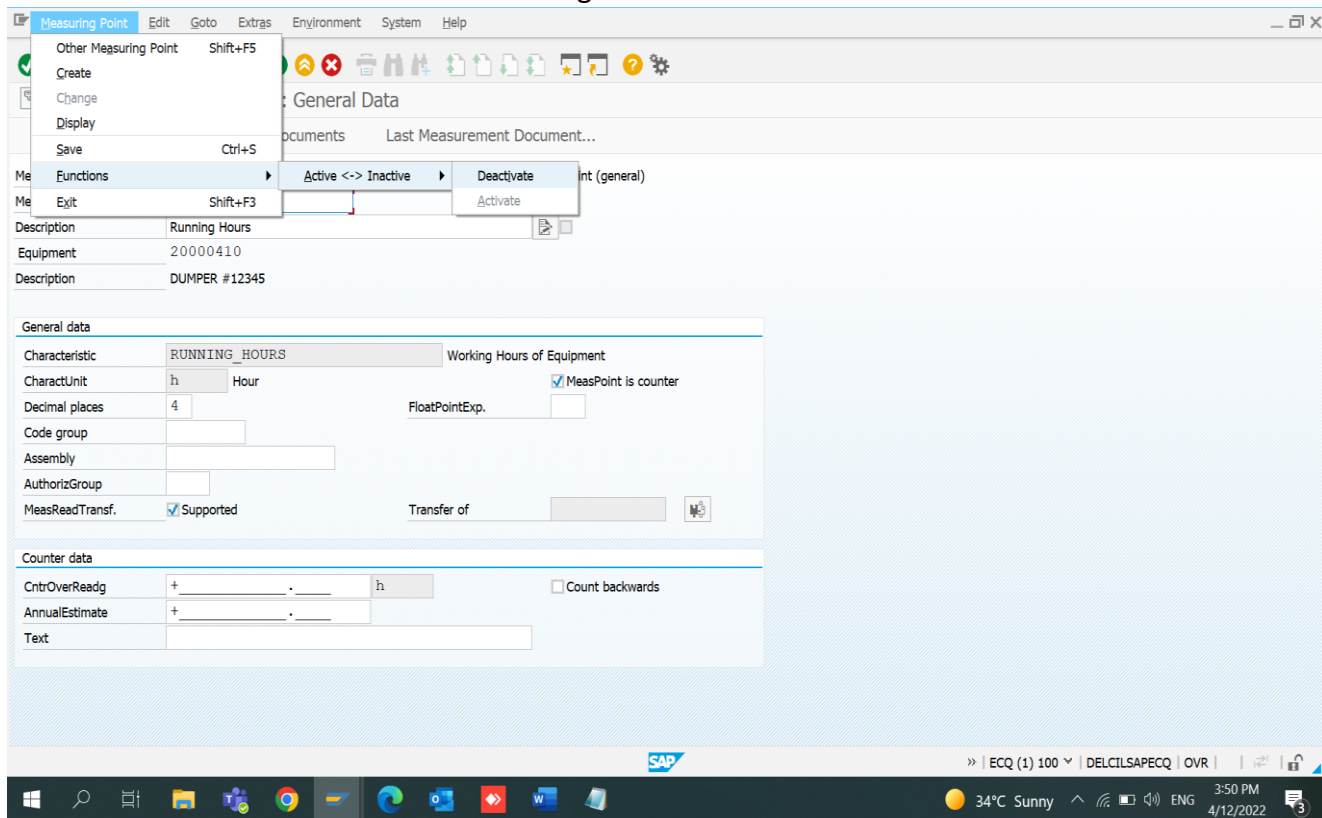
WORKFLOW WILL TRIGGERED TO CONCERN TEAM OF MM AND FI.

Go to **IE02** and Dismantle the Equipment from Functional Location and Set Deletion flag and **SAVE**.

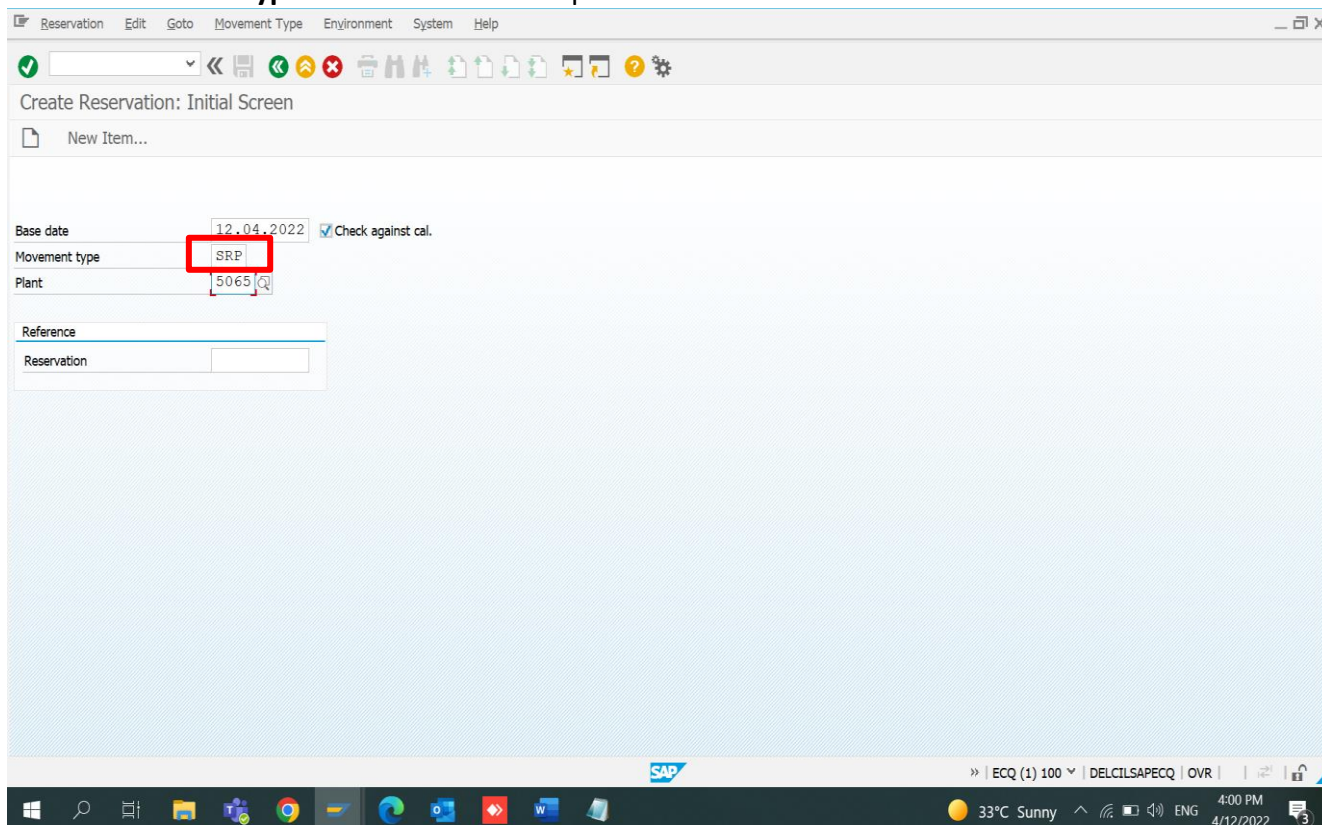




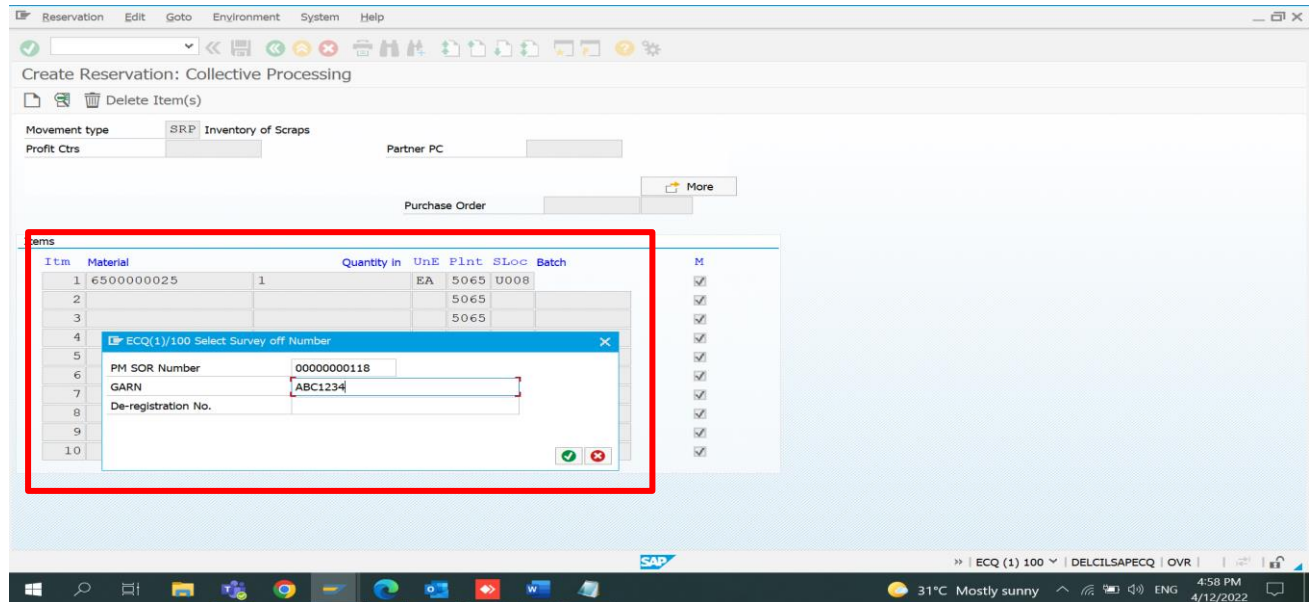
Go to T-Code **IK02** and Deactivate Measuring Points then **SAVE**.



Go to T-Code **MB21** for Create Reservation for crap.  
Enter **Movement Type-SRP** and **Plant** then press Enter.

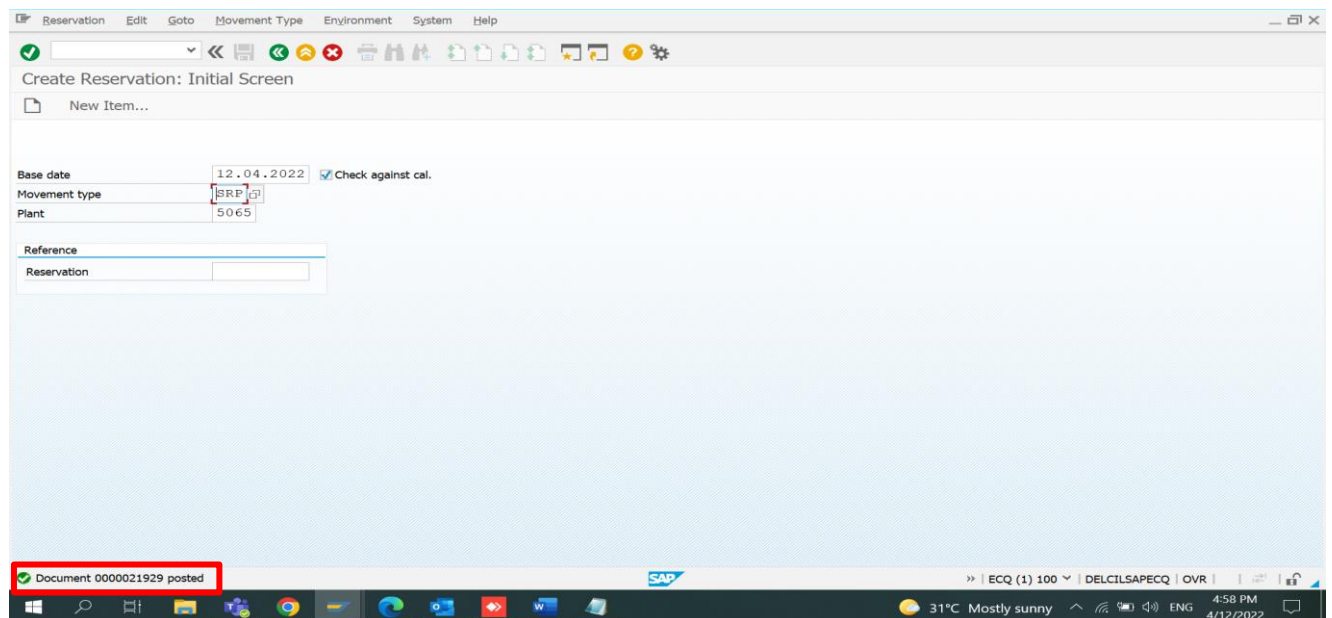


Enter **Scrap material Number, Quantity, SLoc-R004** and Click on **SAVE**  
Enter **PM SOR Number** and **GARN** then Continue for **SAVE**.



Item	Material	Quantity in	UnE	Plant	SLoc	Batch
1	6500000025	1	EA	5065	0008	
2				5065		
3				5065		
4						
5						
6						
7						
8						
9						
10						

Reservation Number will Generated.



Base date: 12.04.2022 ☒ Check against cal.

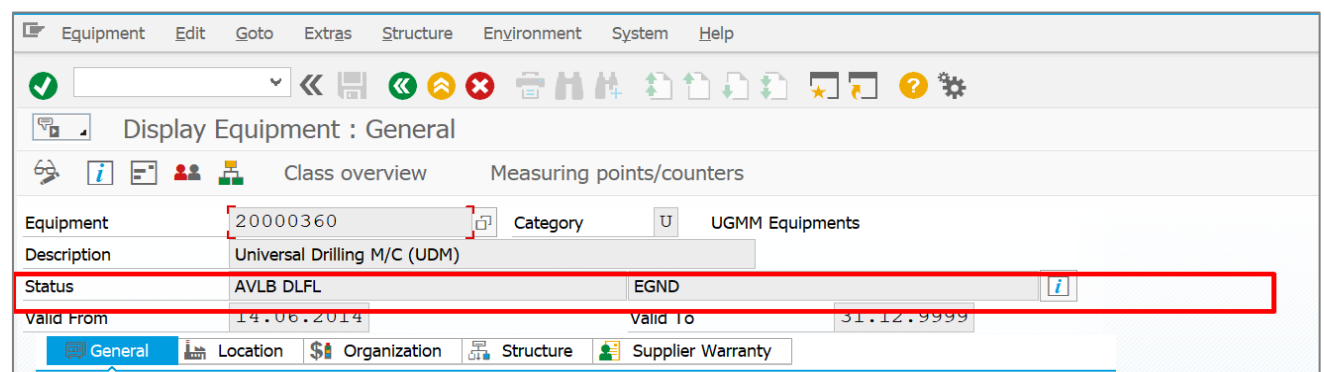
Movement type: SRP

Plant: 5065

Reference:

Reservation: 0000021929

Equipment status is updated.



Equipment: 20000360 Category: U UGMM Equipments

Description: Universal Drilling M/C (UDM)

Status: AVLB DLFL EGND

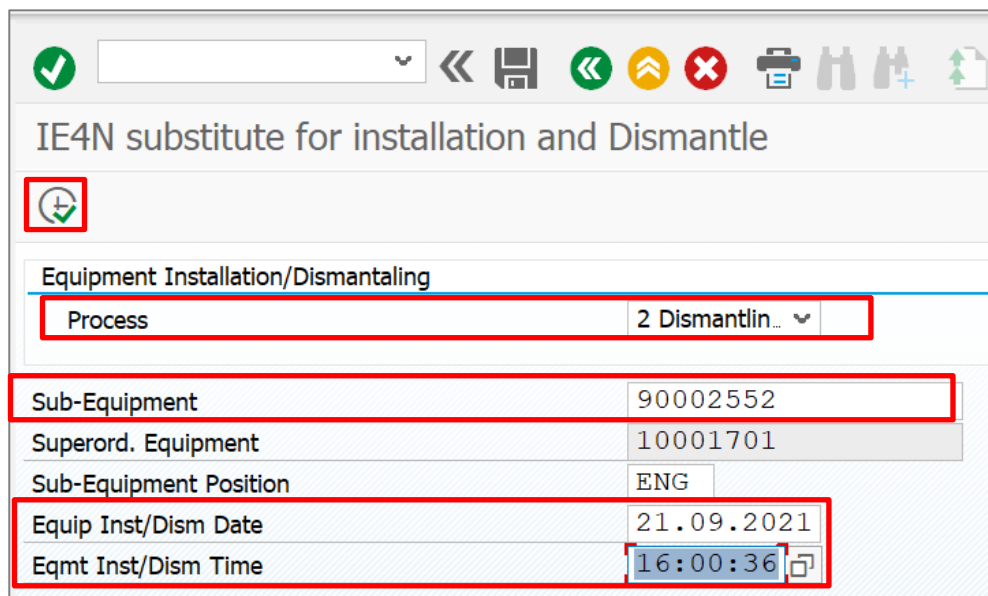
Valid From: 14.06.2014 Valid To: 31.12.9999

## External Refurbishment

### Dismantle Equipment

- I. Execute transaction code **ZPM\_IE4N** from SAP command field .
- II. Select the **Process** of dismantling from drop down option.
- III. Enter **Sub Equipment** number which needs to be dismantled (It automatically fetches its Parent Equipment & Its Position in the Screen).
- IV. Enter the date and time of dismantling.
- V. Click on execute icon.

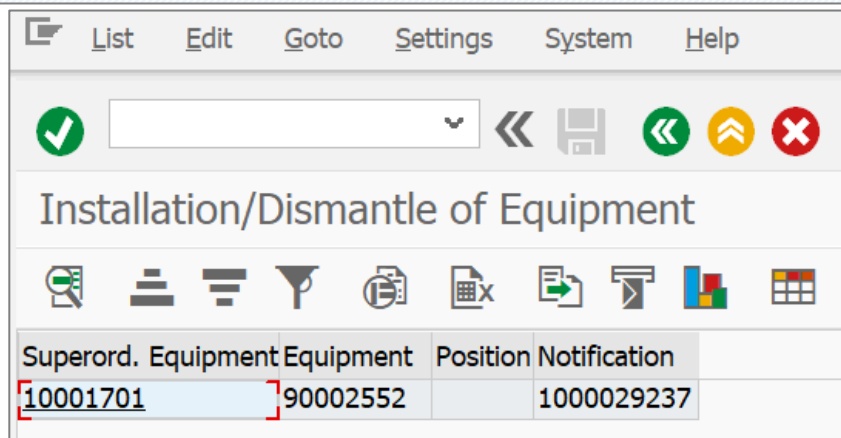
You will get a Screen Showing Details of Dismantled equipment and its Notification created automatically with type “ZD” (For Installation “ZI” Type Notification is created).



IE4N substitute for installation and Dismantle

Equipment Installation/Dismantling

Process	2 Dismantlin...
Sub-Equipment	90002552
Superord. Equipment	10001701
Sub-Equipment Position	ENG
Equip Inst/Dism Date	21.09.2021
Eqmt Inst/Dism Time	16:00:36

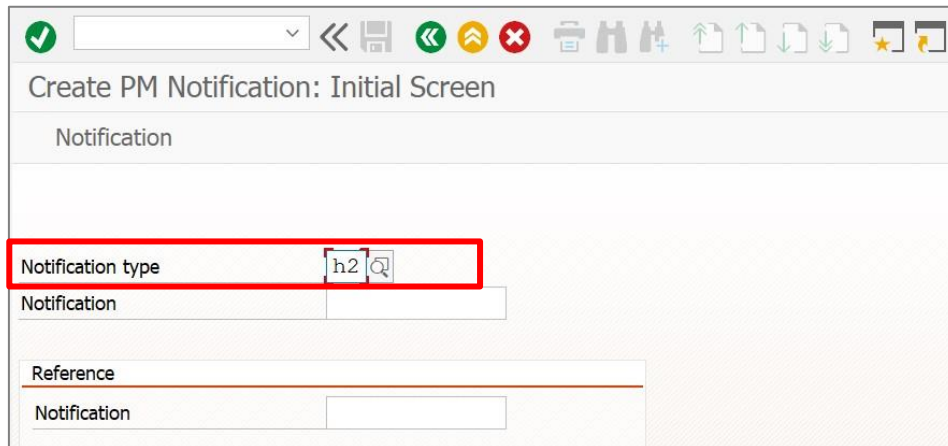


Superord. Equipment	Equipment	Position	Notification
10001701	90002552		1000029237



## Create PM Notification

- I. Execute transaction code **IW21** in SAP command field.
- II. Enter **Notification type**.
- III. Press Enter.



Create PM Notification: Initial Screen

Notification

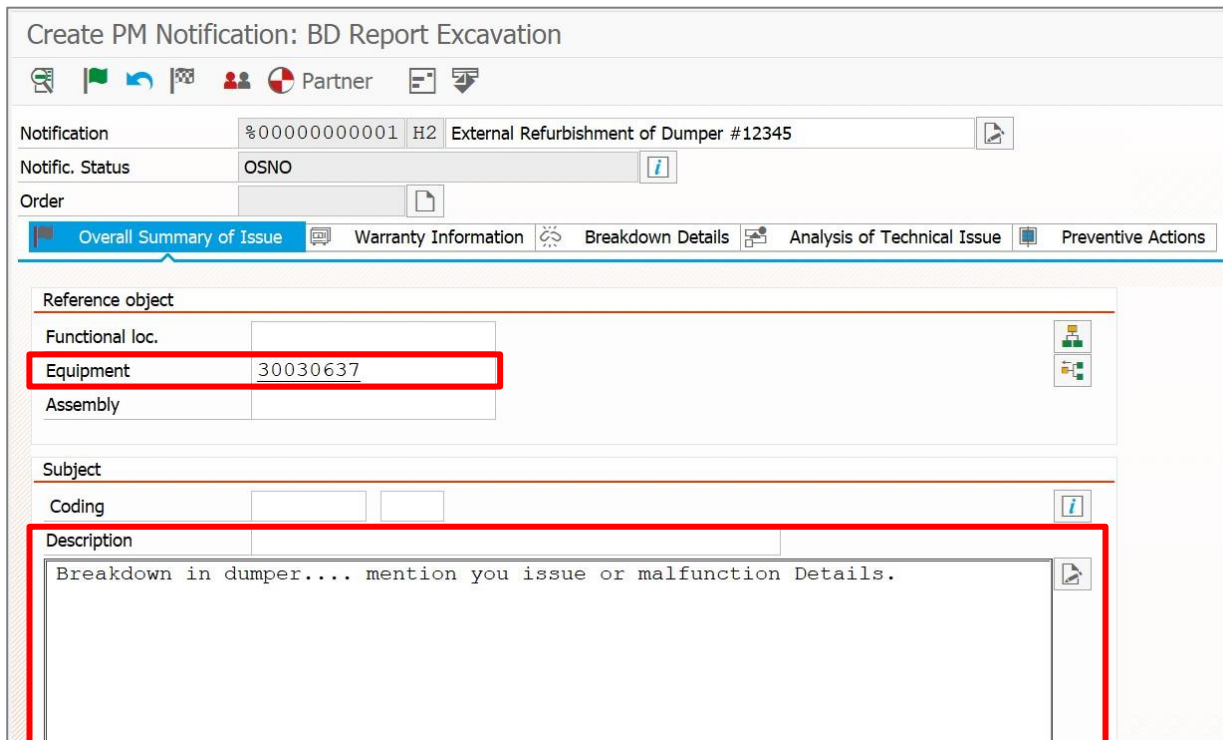
Notification type: h2

Notification

Reference

Notification

- IV. Enter **Equipment** number.
- V. Enter issue description in the **Description** field.



Create PM Notification: BD Report Excavation

Notification: %00000000001 H2 External Refurbishment of Dumper #12345

Notific. Status: OSNO

Order

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue | Preventive Actions

Reference object

Functional loc.

Equipment: 30030637

Assembly

Subject

Coding

Description: Breakdown in dumper.... mention you issue or malfunction Details.

- VI. Scroll down. Enter notification date and time in **Notif.date** field.
- VII. Enter **Start/End Dates**.
- VIII. Check the **Breakdown** option.
- IX. Press Enter.

Create PM Notification: BD Report Excavation

Partner

Coding

Description

Breakdown in dumper.... mention you issue or malfunction Details.

Responsibilities

Planner group

Main WorkCtr

Excavation Dept

Project Engine

Reported by

Notif.date 12.09.2021 23:16:16

Start/End Dates

Required Start 12.09.2021 23:16:16 Priority

Required End 00:00:00 Breakdown

- X. On a pop-up window, enter **Malfunction start** date and **Start Malfn (T)** time.
- XI. Click the ok/continue button.
- XII. Click the save button.

Create PM Notification: BD Report Excavation

Partner

Coding

Description

Breakdown in dumper.... mention you issue or malfunction Details.

Malfunction start 12.09.2021

Start Malfn (T) 23:16:16

Responsibilities

Planner group

Main WorkCtr

Excavation De

Project Engine

Reported by

Notif.date 12.09.2021 23:16:16

Start/End Dates

Required Start 12.09.2021 23:16:16 Priority

Required End 00:00:00 Breakdown

The data is saved and notification number is displayed at the bottom of the page.

✓ Notification 1000002117 saved

Workflow will trigger.

XIII. Click ok/continue button.

**Note:** Optionally, you can choose other option by clicking the 'Choose' button.



Express Information

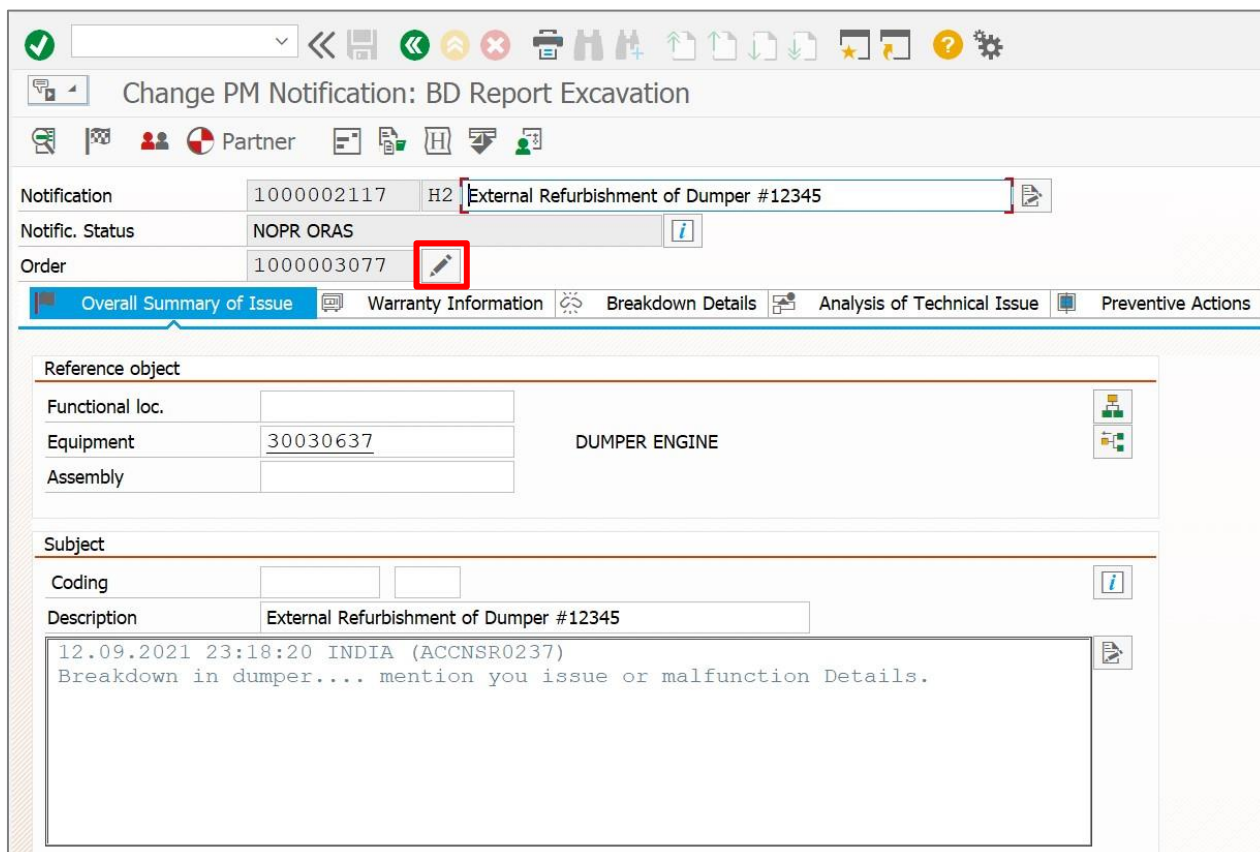
Express document "PM Notification 1000002117 is created" received from author "W"

✓ Choose Inbox

XIV. Enter the **Description**.

XV. Press Enter.

XVI. Click the new button against **Order** field.



Change PM Notification: BD Report Excavation

Notification: 1000002117 H2 External Refurbishment of Dumper #12345

Notific. Status: NOPR ORAS

Order: 1000003077

Overall Summary of Issue Warranty Information Breakdown Details Analysis of Technical Issue Preventive Actions

Reference object

Functional loc.

Equipment: 30030637 DUMPER ENGINE

Assembly

Subject

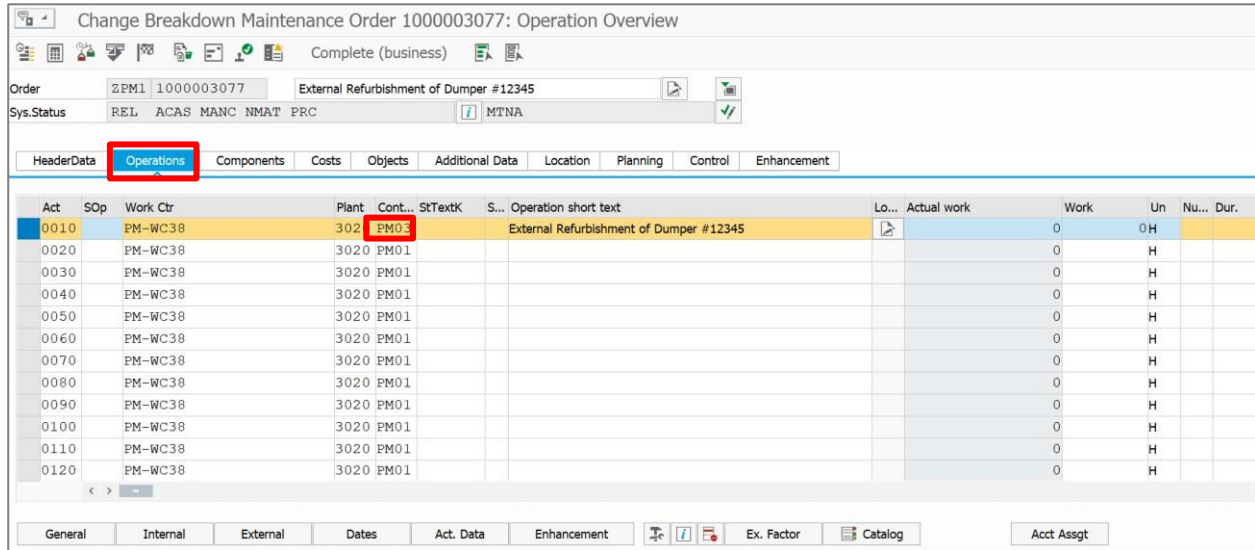
Coding

Description: External Refurbishment of Dumper #12345

12.09.2021 23:18:20 INDIA (ACCNSR0237)  
Breakdown in dumper.... mention you issue or malfunction Details.

XVII. Click **Operations** tab.

XVIII. Select CTRL key **PM03** for External services and press Enter.

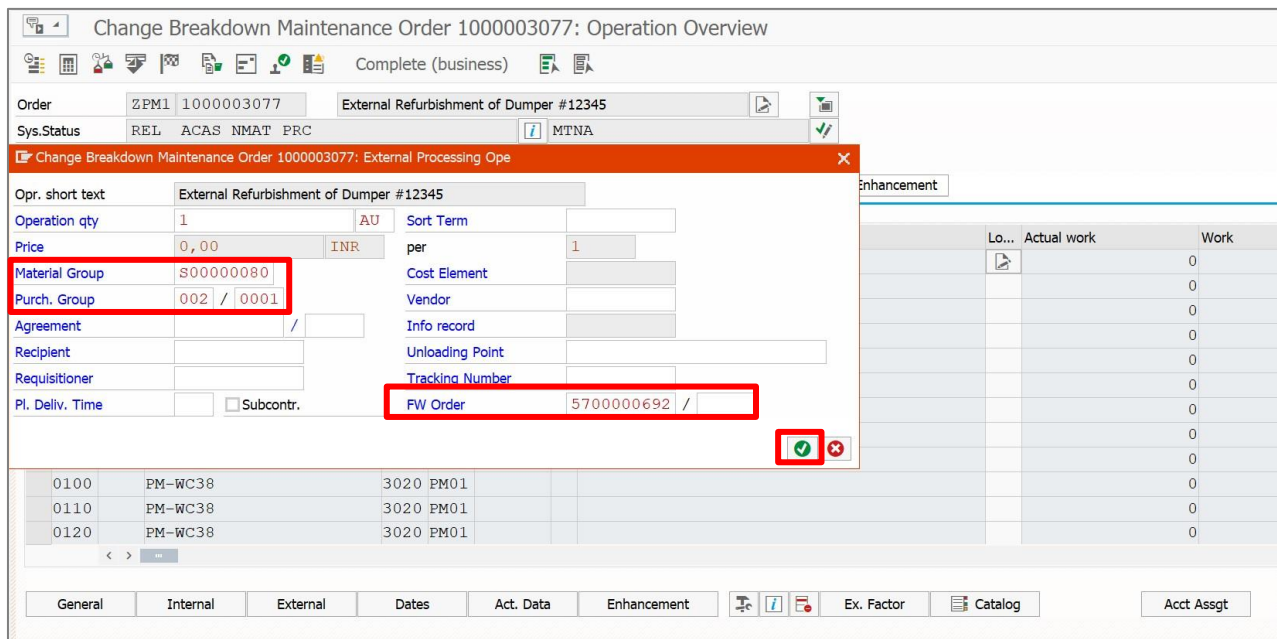


Act	SOp	Work Ctr	Plant	Cont...	StTextK	S...	Operation short text	Lo...	Actual work	Work	Un	Nu...	Dur.
0010		PM-WC38	3020	PM03			External Refurbishment of Dumper #12345		0		0H		
0020		PM-WC38	3020	PM01					0		H		
0030		PM-WC38	3020	PM01					0		H		
0040		PM-WC38	3020	PM01					0		H		
0050		PM-WC38	3020	PM01					0		H		
0060		PM-WC38	3020	PM01					0		H		
0070		PM-WC38	3020	PM01					0		H		
0080		PM-WC38	3020	PM01					0		H		
0090		PM-WC38	3020	PM01					0		H		
0100		PM-WC38	3020	PM01					0		H		
0110		PM-WC38	3020	PM01					0		H		
0120		PM-WC38	3020	PM01					0		H		

XIX. In the pop-up window, enter the following details:

- Material group: same as PO which you have created for Ext. Services
- Purchase Group
- FW Order: Enter the PO number

XX. Click OK/continue button.



Change Breakdown Maintenance Order 1000003077: External Processing Ope

Opr. short text: External Refurbishment of Dumper #12345

Operation qty: 1 AU Sort Term

Price: 0,00 INR per 1

Material Group: S00000080

Purch. Group: 002 / 0001

Agreement: /

Recipient:

Requisitioner:

Pl. Deliv. Time: Subcontr.

Cost Element:

Vendor:

Info record:

Unloading Point:

Tracking Number:

FW Order: 5700000692 /

OK

XXI. Click **External** tab.

XXII. Scroll down and click the **Services** tab. Enter the following details:

- Short Text
- Initial Quantity
- Initial Rate

Change Breakdown Maintenance Order 1000003077: External Processing Ope

Order: 1000003077 Activity: 0010 Ctrl key: PM03  
StdTextKey/ShrtText: External Refurbishment of Dumper #12345

General Internal **External** Dates Act. Data Enhancement Acct Assgt/Costs

Operation qty: 1 AU Sort Term: per 1  
Price: 75.000,00 INR Cost Element:  
Material Group: S00000080 Vendor: 1005145  
Purch. Group: 003 / 3000 Info record:  
Agreement: / Unloading Point:  
Recipient: Tracking Number:  
Requisitioner: FW Order: 5700000739 / 10  
Pl. Deliv. Time: ☐ Subcontr.

**Services** Components Relationships

Line	D... Service No.	Short Text	Initial Quantity	Un	Initial Rate	Crcy	Overfulfillment...	% Variation(Qty)
10		electrical service for the 3020 plant	5	EA	5.000,00	INR		
20		electrical service for the 3020 plant	10	EA	5.000,00	INR		

Service Sel. Catalog Line: 10

XXIII. Click the **Costs** tab.

Under 'Overview' section, estimated costs, planned costs, and actual costs are displayed.

Change Breakdown Maintenance Order 1000003077: Cost Overview

Order: ZPM1 1000003077 External Refurbishment of Dumper #12345  
Sys.Status: REL ACAS MANC NMAT PRC MTNA

HeaderData Operations Components **Costs** Objects Additional Data Location Planning Control Enhancement

Estimated costs: 0,00 INR  
Val.in Object Curr. INR  
Val.in CoAreaCurr. INR

Rep. Plan/Act. Rep. Budget/Commit.

Overview Costs Quantities Key figures

Group/Descrptn	Est. costs	Plan costs	Act. costs	C...
Costs	0,00	75.000,00	0,00	INR
External Services	0,00	75.000,00	0,00	INR

Category

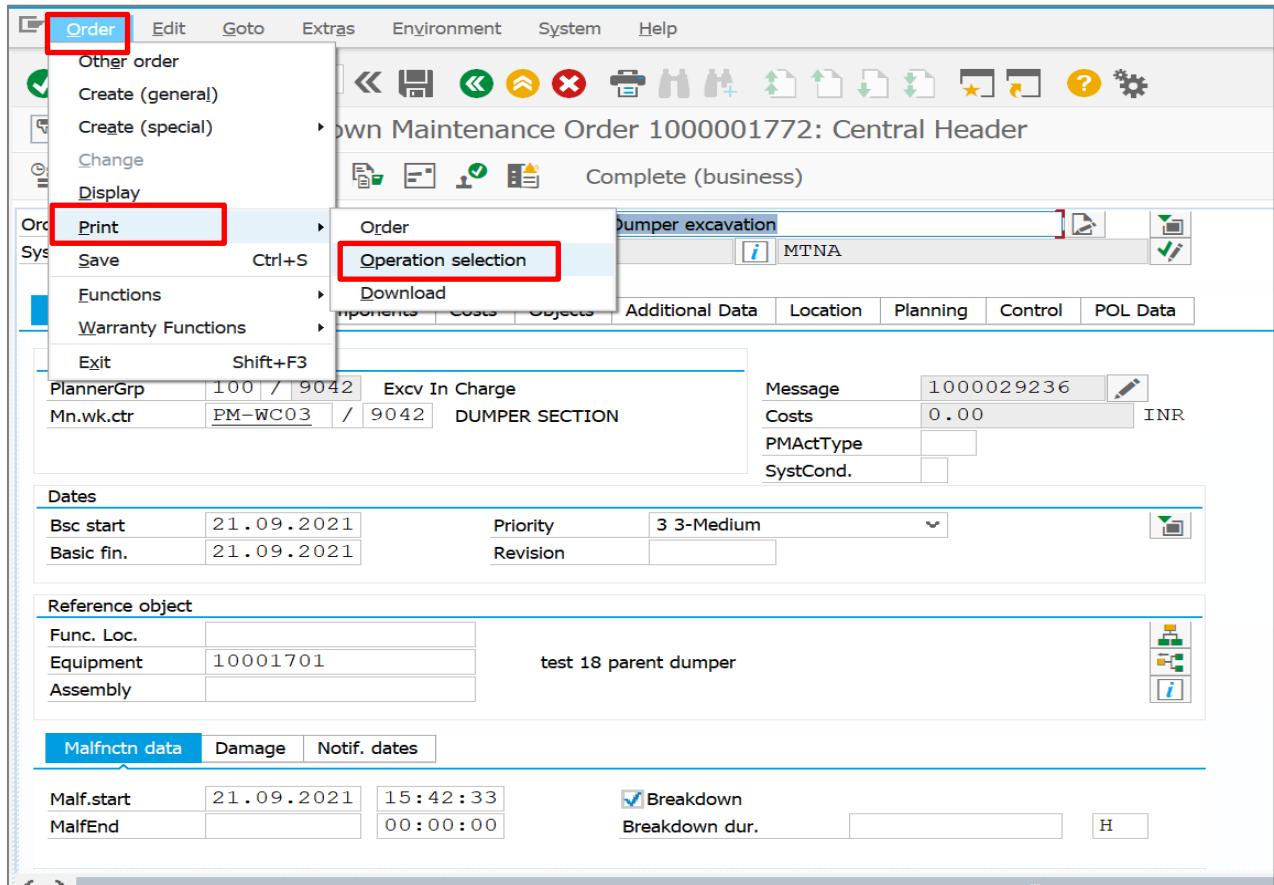
Actual cost will appear after Release of Service Entry Sheet.

XXIV. Click the **SAVE** button to save the order.



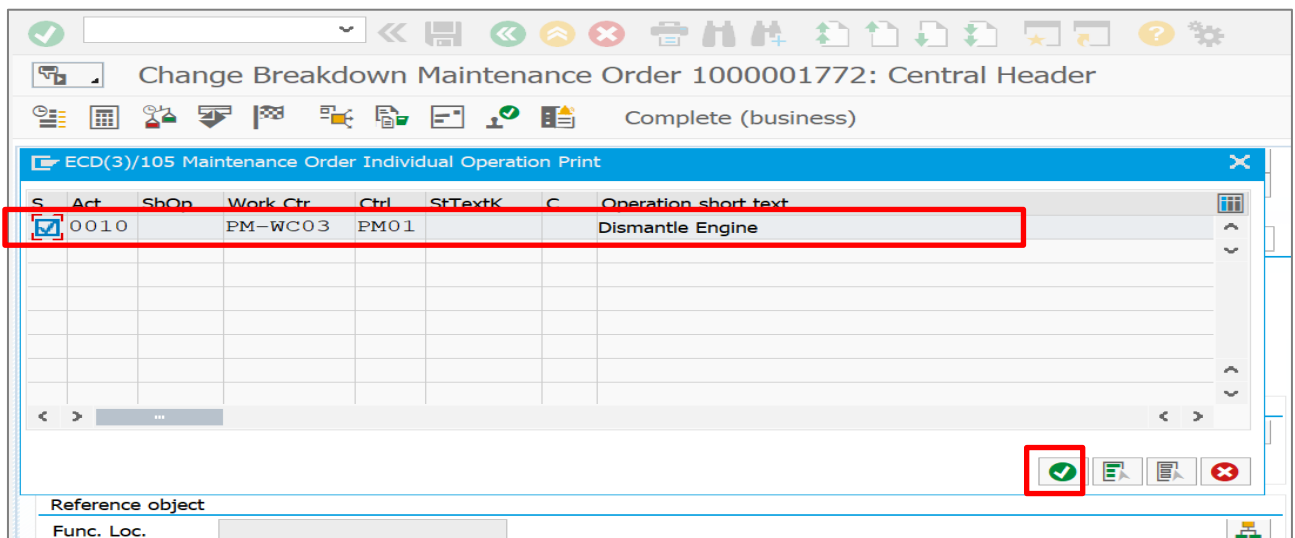
## Create R-Form

- XXV. Execute transaction code **IW32** from SAP command field.
- XXVI. Enter **Maint. Order** Number.
- XXVII. Click **Order** menu from the top menu bar.
- XXVIII. Click **Print >> Operation Selection** option.



The screenshot shows the SAP IW32 transaction interface. The 'Order' menu is open, and the 'Print' option is selected, which has opened a sub-menu where 'Operation selection' is highlighted. The background shows the 'Down Maintenance Order 1000001772: Central Header' with various data fields like PlannerGrp, Mn.wk.ctr, Dates, Reference object, and Malfctn data.

- XXIX. Select the Operation Activity for which R-Format print is needed.
- XXX. Click OK/continue button.



The screenshot shows the 'Change Breakdown Maintenance Order 1000001772: Central Header' dialog. A table titled 'ECD(3)/105 Maintenance Order Individual Operation Print' is displayed. The first row is selected, showing '0010' in the 'S' column and 'Dismantle Engine' in the 'Operation short text' column. The 'OK' button at the bottom right is highlighted with a red box.

S	Act	ShOp	Work Ctr	Ctrl	StTextK	C	Operation short text
<input checked="" type="checkbox"/>	0010		PM-WC03	PM01			Dismantle Engine

- XXXI. Select the Shop Paper “ZCWS” – CWS R Form from List of Shop Papers.
- XXXII. Click on **Print Preview** button. You can now save the PDF or print directly.

Change Breakdown Maintenance Order 1000001772: Central Header

Complete (business)

Order ZPM1 1000001772 Breakdown of Dumper excavation

ECD(1)/105 Select Shop Papers

Sho...	Description	Output Device	P...	Num...	D...	P...	D...	N...	SA...	Ou...	Recipient number	Cou...	J.
2070	Completion Confirmation Slip	LP01	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		EN			
2072	Compl.Conf.Slip for Split Recs	LP01	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		EN			
ZCWS	CWS R Form	LP01	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		EN			

Print/Fax Multiple Fax **Print Preview**

Func. Loc. Equipment 10001701 test 18 parent dumper

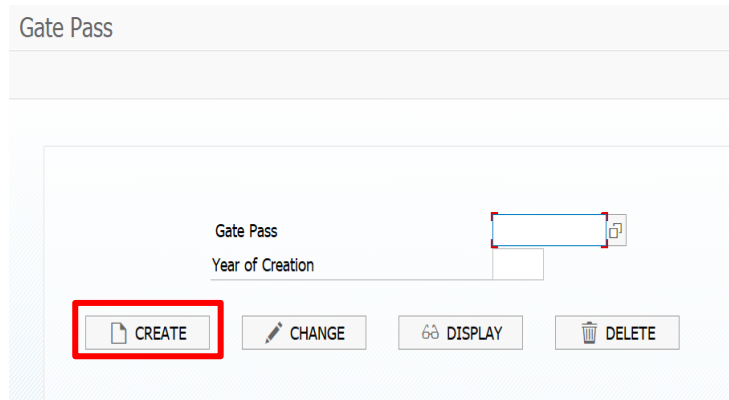
Print the R-Form.

Print Preview, Document 1 of 1

Western Coalfields Ltd	
WAN AREA	
Mangal Niguda OC Mine	
WORKORDER CWS R-FORMAT (CWS)	
1. NAME OF THE PROJECT	0442 Mangal Niguda OC Mine
2. SAP DETAILS OF ASST/SUB ASST COMPONENT	80002352 test 18 child Engine
3. CEN SERIAL NO. OF SUB ASST/MODEL NO. OF SUB ASST	123446123
4. EQUIPMENT DETAILS ON WHICH IT WAS FITTED	10001701 test 18 parent dumper
5. DATE OF FAILURE	CEN Serial No- ABC123
6. DATE OF REPAIR	Date: Sep 22, 2021
7. CHOOSE TYPE OF SUB ASSEMBLY	<input type="checkbox"/> Original (Received with Machine) <input checked="" type="checkbox"/> New <input type="checkbox"/> Reconditioned <input type="checkbox"/> Repaired
7A. IN CASE OF ORIGINAL, ON NEW GIVE FOLLOWING DETAILS	
8. DATE OF INITIAL FITMENT ON M/C	
9. PROGRESSIVE HOURS OF THE ASSEMBLY	
7B. IN CASE OF REPAIRED/RECON. ASST GIVE FOLLOWING DETAILS	
8. CHOOSE TYPE OF REPAIR OF SUB ASSEMBLY	<input type="checkbox"/> Repaired Departmentally at site <input type="checkbox"/> Repaired by Outside Agency (Not Through CWS) <input type="checkbox"/> Repaired from CWS
9. DATE OF FITMENT ON M/C	Sep 20, 2021
10. HOURS WORKED AFTER LAST REPAIR	1 Hrs
11. PROGRESSIVE HOURS OF THE ASSEMBLY	1 Hrs
12. IN CASE OF DEPARTMENTAL REPAIR AT SITE OR BY OUTSIDE AGENCY (NOT THROUGH CWS) GIVE FOLLOWING DETAILS	
13. DATE OF REPAIR / OVERHAUL	
14. TOTAL COST INCURRED ON REPAIR / SPARE COST IN CASE OF REPAIR	
15. IN CASE THE REPAIRED/RECON. ASST WAS RECEIVED FROM CWS GIVE FOLLOWING DETAILS	
16. PREVIOUS REPAIR/RECON ORDER NUMBER AT CWS AND DATE	Order No: 500000027 Date: Sep 5, 2021
17. DETAILS OF RECEIPT FROM CWS (GATE PASS REQUIRED)	
18. REASON OF PRESENT FAILURE	
19. WHY IT COULD NOT BE REPAIRED AT SITE, GIVE COMMENTS	
20. NO OF OVERHAULS CARRIED OUT	1
21. REMARKS IF ANY	
(*) - Manual Entry	
NAME : DESIGNATION : SIGNATURE :	

### Create Gate Pass

- I. Execute transaction code **ZMM016** from SAP command field.
- II. Click the **Create** button.



- III. Enter the following details:
  - Click on Gate Pass Req. Check box
  - Company Code
  - Plant
  - Department
  - Reason
  - Purchase Order number
  - Creator Contact No.
- IV. Click appropriate radio button - Returnable/Non-Returnable.
- V. Press Enter.  
In 'Ship to Vendor' section, details will be fetched from PO number.
- VI. On Item level, **Add row** details:
  - Equipment number
  - Material Number w.r.t EQ. No.
  - Sending type
  - Expect Return Date
  - Quantity Unit
  - Remarks (any)

### Create Gate Pass

Print Display Doc Attach Document

#### Header Information

Company Code **CCL**  ☒ Gate Pass Req ☐ Returnable ☐ Non-Returnable  
 Plant 3020  
 Material Document Year 2022 Reason 02 INTERNAL REFURBISHMENT  
 Purchase Order Creator Contact No. 877897345  
 Department 005

Transport Vendor Other Details **Customer Details**

Ship to Place 3148  Region 34  
 Customer Name CENTRAL REPAIR SHOP, BARKAKANA Country IN  
 PO Box Postal Code 829101  
 Street/House Telephone Extn  
 City Fax Extn  
 District GST No. 20AAACC7476RHZT

- I. Click the **Other Details** tab. Enter the details as required.
- II. Click the **Ship to Vendor** tab. Enter the details as required.
- III. Click on **Add Line Item** and Enter details as required.
- IV. Click the save button.

Create Gate Pass

Print Display Doc Attach Document

Header Information

Company Code CCL Gate Pass Request 100000048 ☒ Returnable  
 Plant 3020 Year of Creation 2021 ☐ Non-Returnable  
 Material Document Year 2021 Reason 03 EXTERNAL REFURBISHMENT Status CR GPR Created  
 Purchase Order 5700000739 Creator Contact No. 9452357683  
 Department 003

Transport Vendor **Other Details** Ship to Vendor

FreightPayer VEND Vendor Ins. Payer COMP CIL Statutory Clearance Y  
 Material Received By KARTIK KUMAR Mode of Transport ROAD Discrepancy No  
 Way Bill Number 876543 Vehicle Number JH01AG7689 Indemnity Bond No  
 LR Number 876543 Lorry Receipt Date Insurance Company  
 Departcity RANCHI Arrival city HAZARIBAG Original PO No.  
 Insurance Policy No. 7654DD987 Insurance Policy Dt. Notification Number 1000002117  
 Remark 1 Contact Person SASWAT PM Order Number 1000003077

Item Details

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	HSN Code
10	5800000042	ENGINE - ASHOK LEYLAND, A.30030637		DUMPER ENGINE		DEFECTIVE	

Create Gate Pass Request

Display Doc Attach Document

Company Code CCL Plant 3020 Material Document Year 2021 Reason 03 EXTERNAL REFURBISHMENT Purchase Order 5700000739 Creator Contact No. 9452357683 Department 003

☒ Returnable ☐ Non-Returnable

**Ship to Vendor**

Ship to Place 1005145 Region 34 Vendor Name PANCHANAND PANDEY Country IN PO Box 1313455 Postal Code 825301 Street/House Streen no. 1 Telephone 988978777 Extn City HAZARIBAG Fax Extn District JHARKHAND GST No. 20AKAPM0293K1ZS

Item Details

Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	Received GP Qty	UOM Rate	Approx. Value	Remarks
	U001		30.09.2021	1,000	0,000	EA	0,00	ANY REMARKS

VII. Click the save button. A confirmation message regarding gate pass creation is displayed.

VIII. Click **Yes**.

Create Gate Pass Request

Display Doc Attach Document

Header Information

Company Code CCL Plant 3020 Material Document Year 2021 Reason 03 EXTERNAL REFURBISHMENT Purchase Order 5700000739 Creator Contact No. 9452357683 Department 003

☒ Returnable ☐ Non-Returnable

**Ship to Vendor**

Ship to Place 1005145 Region 34 Vendor Name PANCHANAND PANDEY Country IN PO Box 1313455 Postal Code 825301 Street/House Streen no. 1 Telephone 988978777 Extn City HAZARIBAG Fax Extn District JHARKHAND GST No. 20AKAPM0293K1ZS

Item Details

Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	Received GP Qty	UOM Rate	Approx. Value	Remarks
	U001		30.09.2021	1,000	0,000	EA	0,00	ANY REMARKS

Confirmation: Do you want to create Gate Pass Request ?

**Yes** No Cancel

GATE PASS is created. The Gate Pass number is displayed on a pop-up window.

Create Gate Pass Request

Display Doc Attach Document

Header Information

Company Code CCL Plant 3020 Material Document Year 2021 Reason 03 EXTERNAL REFURBISHMENT Purchase Order 5700000739 Creator Contact No. 9452357683 Department 003

Returnable Non-Returnable

Ship to Vendor

Ship to Place 1005145 Region 34 Vendor Name PANCHANAND PANDEY Country IN PO Box 1313455 Postal Code 825301 Street/House Street no. 1 Telephone 988978777 Extn City District 20AKAPM0293K1ZS

Information Gate Pass Request 1000000048 Created

Item Details

Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	Received GP Qty	UOM Rate	Approx. Value	Remarks
	U001		30.09.2021	1,000	0,000	EA	0,00	ANY REMARKS

### Approve/Reject Gate Pass

- V. Execute transaction code **ZMM017** from SAP command field.
- VI. Enter **Gate Pass** number.
- VII. Enter **Year of Creation**.
- VIII. Click the **Decision** button.

Gate Pass Request

Gate Pass Request 1000000048





Year of Creation 2021

? Decision

Check the gate pass details.

- IX. Select the applicable line items.
- X. Click **Approve** or **Reject** button as applicable. Approved button is clicked in this example.

Display Gate Pass Request - 1000000048/2021

**Header Information**

Company Code	CCL	<input checked="" type="radio"/> Returnable
Plant	3020	<input type="radio"/> Non-Returnable
Material Document	Year 2021	Reason 03 EXTERNAL REFURBISHMENT
Purchase Order	5700000739	Status CR GPR Created
Department	003	Creator Contact No. 9452357683

**Ship to Vendor**





Ship to Place	1005145	Region	34
Vendor Name	PANCHANAND PANDEY	Country	IN
PO Box	1313455	Postal Code	825301
Street/House	Street no. 1	Telephone	988978777 Extn
City	HAZARIBAG	Fax	Extn
District	JHARKHAND	GST No.	20AKAPM0293K1ZS

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	HSN Code
10	5800000042	ENGINE - ASHOK LEYLAND, A	30030637	DUMPER ENGINE		DEFECTIVE	

The approval message is displayed on the screen. The Gate Pass is approved now.

Display Gate Pass Request - 1000000048/2021


**Header Information**

Company Code	CCL	<input checked="" type="radio"/> Returnable
Plant	3020	<input type="radio"/> Non-Returnable
Material Document	Year 2021	Reason 03 EXTERNAL REFURBISHMENT
Purchase Order	5700000739	Status CR GPR Created
Department	003	Creator Contact No. 9452357683

**Ship to Vendor**

Ship to Place	1005145	Region	34
Vendor Name	PANCHANAND PANDEY	Country	IN
PO Box	1313455	Postal Code	825301
Street/House	Street no. 1	Telephone	988978777 Extn
City		Fax	Extn
District		GST No.	20AKAPM0293K1ZS

**Information**

 Gate Pass Request 1000000048 Approved

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	HSN Code
10	5800000042	ENGINE - ASHOK LEYLAND, A	30030637	DUMPER ENGINE		DEFECTIVE	



### Display Gate Pass

- I. Execute transaction code **ZMM016** in SAP command field.
- II. Enter approved **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click the **Display** button.
- V. Click the **Print** button to take a printout of the Gate Pass.

Gate Pass

---

Gate Pass

+

Year of Creation

CREATE

CHANGE

DISPLAY

DELETE

Display Gate Pass - 2000000025/2021

Print

Display Doc

Attach Document

---

**Header Information**

Company Code	CCL	Gate Pass Request	1000000048	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document	182829	Year	2021	Reason
Purchase Order	5700000739		03	EXTERNAL REFURBISHMENT
Department	003	Creator Contact No.	9452357683	

Status

GP

Gate Pass Created

---

**Transport Vendor**    Other Details    Ship to Vendor

Transp. Vendor Transporter PO Box Street/House City District	<input type="checkbox"/> New Vendor Region Country Postal Code Telephone Fax GST No.
---	--


---

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type
10	5800000042	ENGINE - ASHOK LEYLAND, A	30030637	MPER ENGINE		DEFECTIVE


Print preview is displayed.





**CCL**  
A Government of India Undertaking  
A Mahindra Company

Central Coalfields Ltd  
NORTH URIMARI SCHEME OC Mine,  
General Gate Pass



**Coal India Limited**  
A Mahindra Company  
www.coalindia.in

Shipping Details				Gate Pass Details				Other Details				
Shipping To	: 1005145			Gate Pass No	: 2000000025			Company GSTIN	: 20AAACC7476RHZT			
GSTN No	: 20AKAPM0293K1Z5			Gate Pass Date	: Sep 13, 2021			Shipping GSTN	: 20AKAPM0293K1Z5			
Contact Person	: SAGWAT			Department Name	: Excavation			Date of Departure	: Sep 13, 2021			
Contact No	: 008770323925			PO No.	: 5700000739			Maintenance Orde No	: 1000003977			
Challan Type	: Returnable			PO Date	: Sep 12, 2021			Material Received By	: KARTIK KUMAR			
Vehicle No.	: JH01AG7689			Transporter Name	:			Insurance Payer	: COMP			
Transport Mode	: ROAD			Reason of Gate Pass	: EXTERNAL REFURBISHMENT							
Arrival City	: HAZARIBAG			Departure City	: RANCHI							
W.B.Ref No	: 876543			Status	: Exit Allowed							

Sl No.	Material Code	Material Description	Material Serial No	HSN Code	Quantity	UOM	Material Condition	Unit Rate	Total Value	Expected Return Date
1	5800000042	ENGINE - AGHOK LEYLAND, ALH6D TIC3			1	EA	DEFECTIVE	0	0	Sep 30, 2021

Prepared By
Receiver Signature
Authorized Signature

### Change Gate Pass

- I. Execute transaction code **ZMM018** from SAP command field.
- II. Enter **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click the **Change** button.

**Gate Pass**

Gate Pass

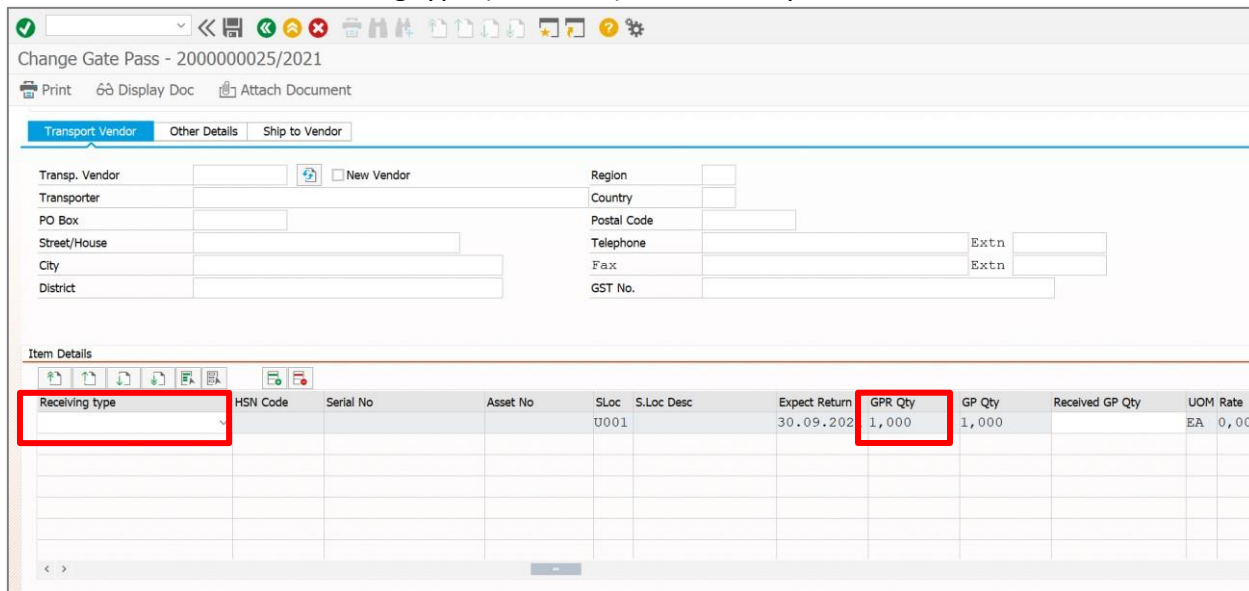
2000000025

Year of Creation

2021

**CHANGE**

- V. Enter **Receiving Gate Pass Quantity** and **Receiving type**.  
For ex. What's the Receiving type (For MINE) and Quantity.



Change Gate Pass - 2000000025/2021

Print Display Doc Attach Document

Transport Vendor Other Details Ship to Vendor

Transp. Vendor  ☐ New Vendor Region   
 Transporter  Country   
 PO Box  Postal Code   
 Street/House  Telephone  Extn   
 City  Fax  Extn   
 District  GST No.

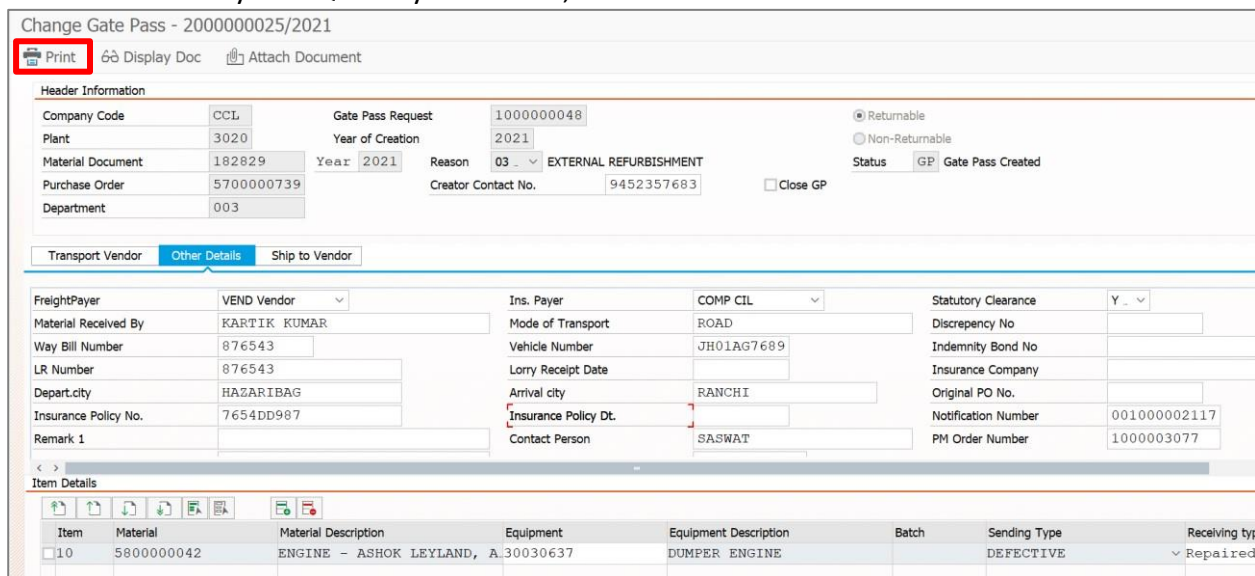
Item Details

Receiving type	HSN Code	Serial No	Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	GP Qty	Received GP Qty	UOM Rate
				U001		30.09.2021	1,000	1,000		EA 0,00

Notice in the screenshot below that receiving status is updated as Repaired.

- VI. Make the changes as required; for example, Arrival city, Departure city, PM order number.  
 VII. Click the save button.  
 VIII. Click the **Print** icon.

**Note:** Send only one Quantity to vendor, so it will be received back to mine.



Change Gate Pass - 2000000025/2021

Print Display Doc Attach Document

Header Information

Company Code CCL Gate Pass Request 1000000048  
 Plant 3020 Year of Creation 2021  
 Material Document 182829 Year 2021 Reason 03 - EXTERNAL REFURBISHMENT  
 Purchase Order 5700000739 Creator Contact No. 9452357683  
 Department 003 Status GP Gate Pass Created

Transport Vendor Other Details Ship to Vendor

FreightPayer VEND Vendor Ins. Payer COMP CIL Statutory Clearance Y  
 Material Received By KARTIK KUMAR Mode of Transport ROAD Discrepancy No  
 Way Bill Number 876543 Vehicle Number JH01AG7689 Indemnity Bond No  
 LR Number 876543 Lorry Receipt Date Insurance Company  
 Depart.city HAZARIBAG Arrival city RANCHI Original PO No.  
 Insurance Policy No. 7654DD987 Insurance Policy Dt. Notification Number 001000002117  
 Remark 1 Contact Person SASWAT PM Order Number 100003077

Item Details

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	Receiving typ
10	5800000042	ENGINE - ASHOK LEYLAND, A.30030637	DUMPER ENGINE			DEFECTIVE	Repaired

A printable output of Receiving(to MINE) of Gate Pass will be generated.

**CCL** NORTH URIMARI SCHEME OC Mine, General Gate Pass

**Coal India Limited**

Shipping Details		Gate Pass Details		Other Details	
Shipping To	: 1001145	Gate Pass No	: 2000000025	Company GDTN	: 2000000025
GDTN No	: 2000000025	Gate Pass Date	: Sep 13, 2021	Shipping GDTN	: 2000000025
Contact Person	: KANAK	Department Name	: Excavation	Date of Departure	: Sep 13, 2021
Contact No	: 9877033305	PO No.	: 5700000739	Maintenance Order No	: 1000001077
Challan Type	: Returnable	PO Date	: Sep 12, 2021	Material Received By	: KANAK KUMAR
Vehicle No.	: J031A07689	Transporter Name	:	Insurance Payer	: COMP
Transport Mode	: ROAD	Reason of Gate Pass	: EXTERNAL REFURBISHMENT		
Arrival City	: KANAK	Departure City	: KANAK		
V.B.Ref No	: 876543	Status	: Exit Allowed		

Sl No.	Material Code	Material Description	Material Serial No	ISIRI Code	Quantity	UOM	Material Condition	Unit Rate	Total Value	Reported Return Date
1	5800000042	ENGINE - ASHOK LEYLAND, ALIND TIC			1	EA	DEFECTIVE	0	0	Sep 16, 2021

Prepared By: \_\_\_\_\_ Receiver Signature: \_\_\_\_\_ Authorized Signature: \_\_\_\_\_

IX. To close a GP, click the close GP option.

X. Click the save button.

Change Gate Pass - 2000000025/2021

Print Display Doc Attach Document

**Header Information**

Company Code	CCL	Gate Pass Request	1000000048	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document	182829	Year	2021	Reason
Purchase Order	5700000739	Reason	03	EXTERNAL REFURBISHMENT
Department	003	Creator Contact No.	9452357683	Status
				GP Gate Pass Created

☒ Close GP

**Transport Vendor** Other Details Ship to Vendor

Transp. Vendor: \_\_\_\_\_ New Vendor: ☐ Region: \_\_\_\_\_

Transporter: \_\_\_\_\_ Country: \_\_\_\_\_

PO Box: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Street/House: \_\_\_\_\_ Telephone: \_\_\_\_\_ Extn: \_\_\_\_\_

City: \_\_\_\_\_ Extn: \_\_\_\_\_

District: \_\_\_\_\_

**Item Details**

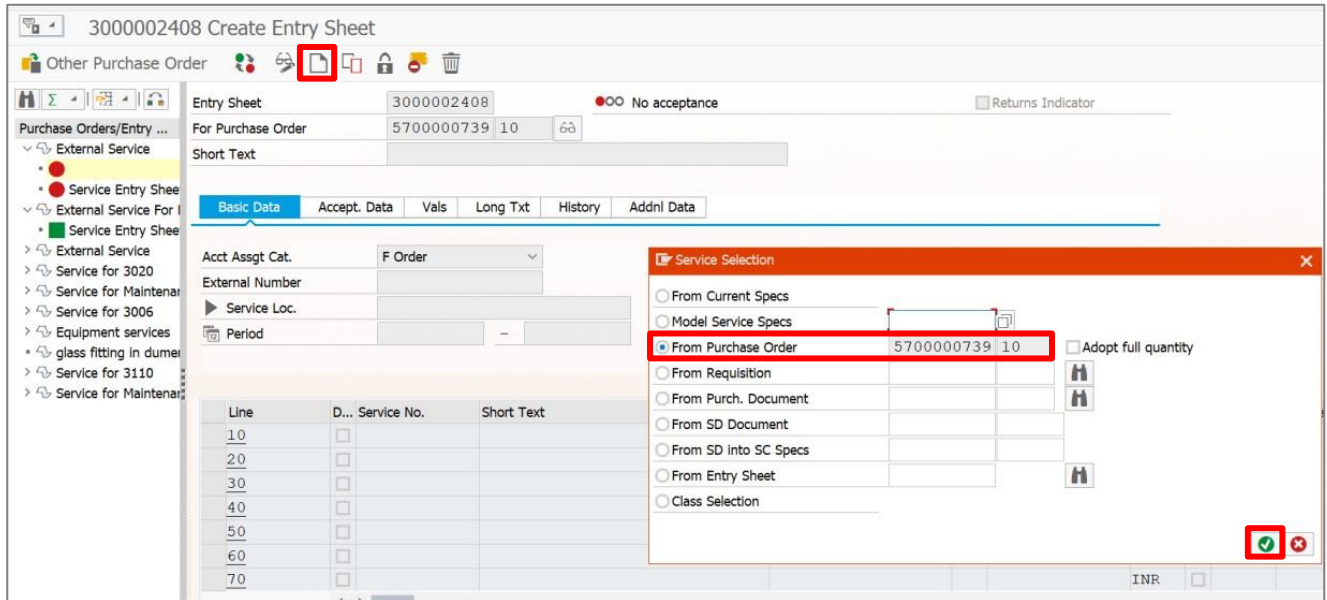
Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	Receivn
10	5800000042	ENGINE - ASHOK LEYLAND, A.30030637		DUMPER ENGINE		DEFECTIVE	REPAI

Gate Pass 2000000025 Saved

Now gate pass is successfully CLOSED. Now you won't be able to change GP. You can only view it. It's a confirmation that Equipment is now in plant(MINE).

## Create Entry Sheet

- I. Execute T-code **ML81N** from SAP command field.
- II. Click on Create icon.
- III. Enter **Purchase Order** number.
- IV. Click the ok/continue button.



3000002408 Create Entry Sheet

Other Purchase Order

Entry Sheet: 3000002408

For Purchase Order: 5700000739 10

Short Text:

Basic Data | Accept. Data | Vals | Long Txt | History | Addnl Data

Acct Assgt Cat.: F Order

External Number:

Service Loc.:

Period:

Service Selection:

- ☐ From Current Specs
- ☐ Model Service Specs
- ☒ From Purchase Order 5700000739 10
- ☐ From Requisition
- ☐ From Purch. Document
- ☐ From SD Document
- ☐ From SD into SC Specs
- ☐ From Entry Sheet
- ☐ Class Selection

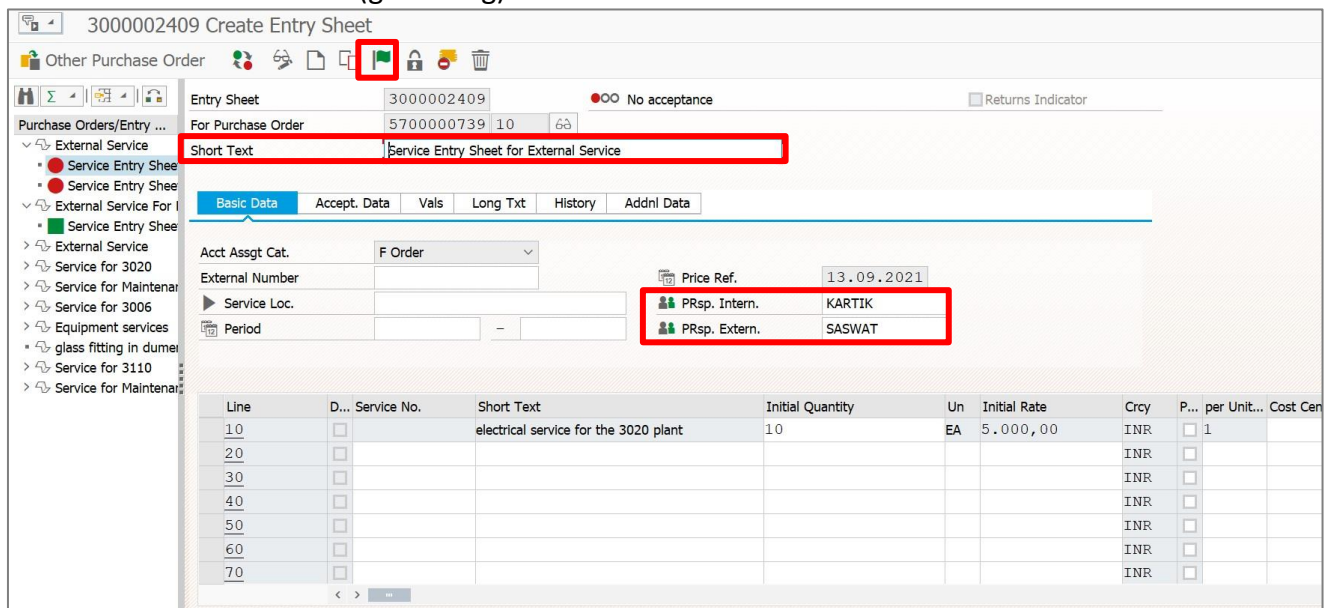
Adopt full quantity

Line | D... | Service No. | Short Text

10			
20			
30			
40			
50			
60			
70			

INR

- V. Enter **Short Text** or description.
- VI. Enter Person Responsible in **PRsp. Intern.** and **PRsp. Extern.** fields.
- VII. Click the release button (green flag).



3000002409 Create Entry Sheet

Other Purchase Order

Entry Sheet: 3000002409

For Purchase Order: 5700000739 10

Short Text: Service Entry Sheet for External Service

Basic Data | Accept. Data | Vals | Long Txt | History | Addnl Data

Acct Assgt Cat.: F Order

External Number:

Service Loc.:

Period:

Price Ref.: 13.09.2021

PRsp. Intern.: KARTIK

PRsp. Extern.: SASWAT

Line | D... | Service No. | Short Text | Initial Quantity | Un | Initial Rate | Crpy | P... | per Unit... | Cost Cen

10			electrical service for the 3020 plant	10	EA	5,000,00	INR		1	
20							INR			
30							INR			
40							INR			
50							INR			
60							INR			
70							INR			

- VIII. Click on services selection to check the details.
- IX. Click the save button.

3000002409 Create Entry Sheet

Other Purchase Order

Entry Sheet 3000002409 Will be accepted Returns Indicator

Purchase Orders/Entry ... For Purchase Order 5700000739 10 66

Short Text Service Entry Sheet for External Service

**Service Entry Sheet**

Basic Data Accept. Data Vals Long Txt History Addnl Data

Acct Asgt Cat. F Order

External Number

Service Loc.

Period

Price Ref. 13.09.2021

PRsp. Intern. KARTIK

PRsp. Extern. SASWAT

Line	D...	Service No.	Short Text	Initial Quantity	Un	Initial Rate	Crcy	P... per Unit...	Cost Center
10			electrical service for the 3020 plant	10	EA	5.000,00	INR	1	
20				0,000		0,00	INR	0	
30				0,000		0,00	INR	0	
40				0,000		0,00	INR	0	
50				0,000		0,00	INR	0	
60				0,000		0,00	INR	0	
70				0,000		0,00	INR	0	

X. Execute t-code **IW32** from SAP command field.

XI. Click **Costs** tab to check the actual cost. It will be reflect after S.E.S. (service entry sheet).

Change Breakdown Maintenance Order 1000003077: Central Header

Complete (business)

Order ZPM1 1000003077 External Refurbishment of Dumper #12345

Sys.Status REL ACAS MANC NMAT PRC MTNA

HeaderData Operations Components **Costs** Objects Additional Data Location Planning Control Enhancement

Person responsible

PlannerGrp 100 / 3020 Excv Incharge

Mn.wk.ctr PM-WC38 / 3020 MECH MAINT SURFACE..

Message 1000002117

Costs 0,00 INR

PMActType

SystCond.

Dates

Bsc start 12.09.2021 Priority

Basic fin. 12.09.2021 Revision

Reference object

Func. Loc.

Equipment 30030637 DUMPER ENGINE

Assembly


## Settle Order

- I. Execute transaction code **KO88** from SAP command field.
- II. Enter the following details:
  - Controlling Area
  - Order Number
  - Settlement period
  - Fiscal Year



- III. Click the execute button.  
Order will be settled.

Actual Settlement: Order

 Settlement Rule

Controlling Area CIL

Order 1000003077 Q0010

Parameters

Settlement period	1	Posting period	
Fiscal Year	2021	Asset Value Date	
Processing type	1 Automatic		

Processing Options

☒ Test Run

☐ Check trans. data

### Change Breakdown Maintenance Order

- I. Execute T-code **IW32/IW22** from SAP command field.
- II. Enter **Malfunction End Date and time**.
- III. Press Enter.

Basic fin. 13.09.2021 Revision

Reference object

Func. Loc.

Equipment 30030637 DUMPER ENGINE

Assembly

Malfnctn data Damage Notif. dates

Malf.start 12.09.2021 23:16:16 ☒ Breakdown

MalfEnd 13.09.2021 01:05:17 Breakdown dur. 1,82 ED

First operation

Operation External Refurbishment of Dumper #12345 CcKey 1 Calculate duration

WkCtr/Plnt PM-WC38 / 3020 Ctrl key PM03 Acty Type 100008 ☐ PRT

Work durtn 0 H Number Oprtn dur. H ☐ Comp.

Person. no

- IV. Click the finish flag (chequered) for TECO (Technically Completed).

Change Breakdown Maintenance Order 1000003077: Central Header

Complete (business)

Order ZPM1 1000003077 External Refurbishment of Dumper #12345

Sys.Status REL ACAS MANC NMAT PRC MTNA

HeaderData Operations Components Costs Objects Additional Data Location Planning Control Enhancement

Person responsible

PlannerGrp 100 / 3020 Excv Incharge

Mn.wk.ctr PM-WC38 / 3020 MECH MAINT SURFACE.

Message 1000002117

Costs 0,00 INR

PMActType

SystCond.

Dates

Bsc start 12.09.2021 Priority

Basic fin. 12.09.2021 Revision

Reference object

Func. Loc.

Equipment 30030637 DUMPER ENGINE

Assembly

A pop-up will appear. Check the details

V. Click ok/continue button.

VI. Click the save button.

Change Breakdown Maintenance Order 1000003077: Central Header

Complete (business)

Order ZPM1 1000003077 External Refurbishment of Dumper #12345

Sys.Status REL ACAS MANC NMAT PRC MTNA

HeaderData Operations Components Costs Objects Additional Data Location Planning Control Enhancement

Complete

Reference date 13.09.2021

Reference time 00:00:00

☒ Complete notifctns

Notification

Malfcnctn data Damage Notif. dates

Malf.start 12.09.2021 23:16:16 ☒ Breakdown

MalfEnd 13.09.2021 01:05:17 Breakdown dur. 1,82 ED


Usage list

## Installment of Equipment


- I. Execute transaction code **ZPM\_IE4N** from SAP command field .
- II. Select the **Process** of Installation from drop down option.
- III. Enter **Sub Equipment** number which needs to be Installation, Superord. Equipment, Sub-Equipment Position.
- IV. Enter the date and time of Installation.
- V. Click on execute icon.

You will get a Screen Showing Details of Installation equipment and its Notification created automatically with type “ZD” (For Installation “ZI” Type Notification is created).








**IE4N substitute for installation and Dismantle**













**Equipment Installation/Dismantaling**

Process	1 Installation ▼
Sub-Equipment	90002552
Superord. Equipment	10001701
Sub-Equipment Position	ENG
Equip Inst/Dism Date	21.09.2021
Eqmt Inst/Dism Time	16:00:00 

List Edit Goto Settings System Help

**Installation/Dismantle of Equipment**

Superord. Equipment	Equipment	Position	Notification
10001701	90002552		1000029237

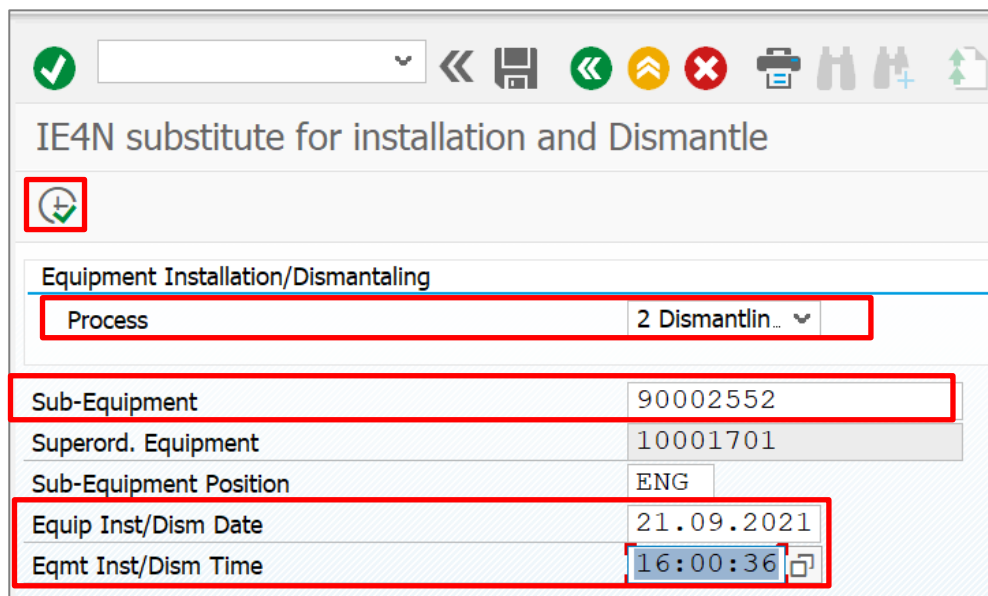


## Internal Refurbishment

### Dismantle Equipment

- VI. Execute transaction code **ZPM\_IE4N** from SAP command field .
- VII. Select the **Process** of dismantling from drop down option.
- VIII. Enter **Sub Equipment** number which needs to be dismantled (It automatically fetches its Parent Equipment & Its Position in the Screen).
- IX. Enter the date and time of dismantling.
- X. Click on execute icon.

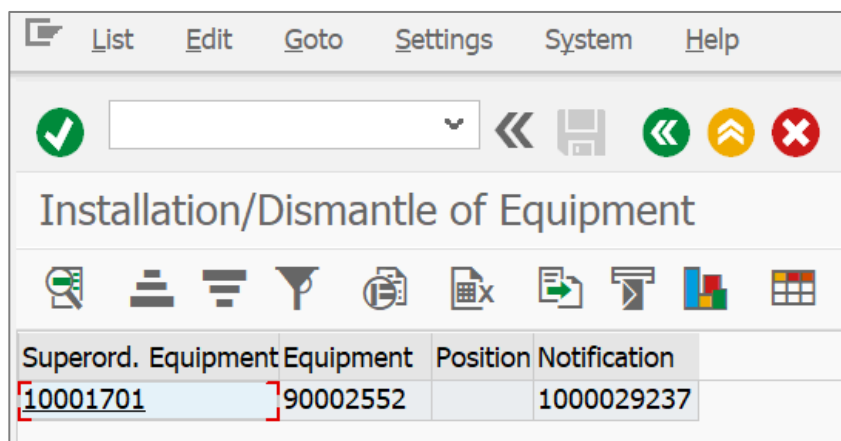
You will get a Screen Showing Details of Dismantled equipment and its Notification created automatically with type “ZD” (For Installation “ZI” Type Notification is created).



IE4N substitute for installation and Dismantle

Equipment Installation/Dismantaling

Process	2 Dismantlin...
Sub-Equipment	90002552
Superord. Equipment	10001701
Sub-Equipment Position	ENG
Equip Inst/Dism Date	21.09.2021
Eqmt Inst/Dism Time	16:00:36

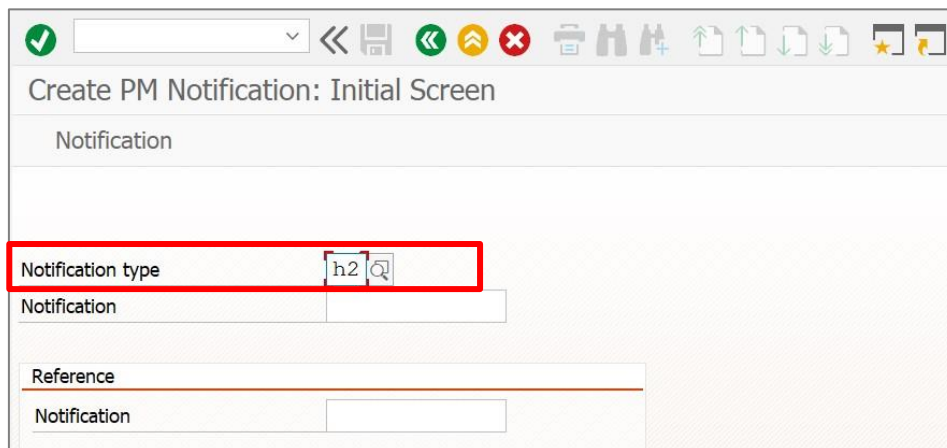


Installation/Dismantle of Equipment

Superord. Equipment	Equipment	Position	Notification
10001701	90002552		1000029237

### Create PM Notification

- XXXIII. Execute transaction code **IW21** in SAP command field.
- XXXIV. Enter **Notification type**.
- XXXV. Press Enter.



Create PM Notification: Initial Screen

Notification

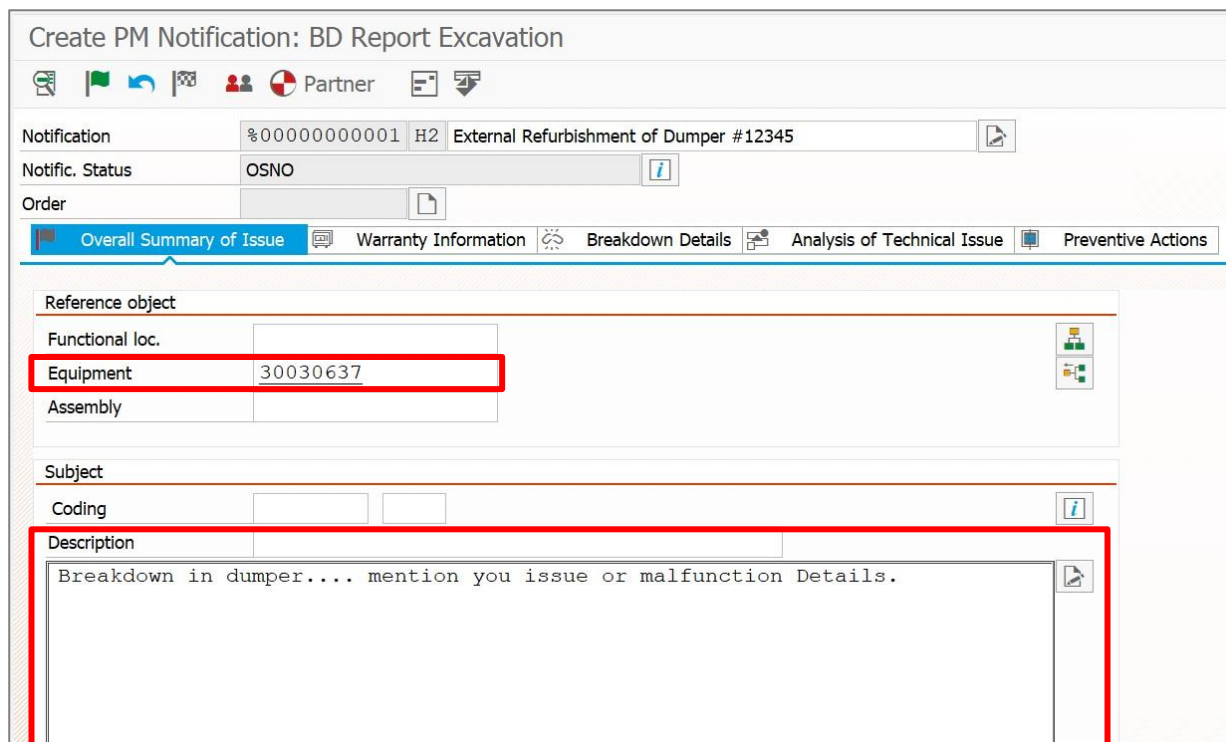
Notification type: h2

Notification

Reference

Notification

- XXXVI. Enter **Equipment** number.
- XXXVII. Enter issue description in the **Description** field.



Create PM Notification: BD Report Excavation

Notification: %00000000001 H2 External Refurbishment of Dumper #12345

Notific. Status: OSNO

Order

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue | Preventive Actions

Reference object

Functional loc.

Equipment: 30030637

Assembly

Subject


Coding

Description: Breakdown in dumper.... mention you issue or malfunction Details.

- XXXVIII. Scroll down. Enter notification date and time in **Notif.date** field.
- XXXIX. Enter **Start/End Dates**.
- XL. Check the **Breakdown** option.

XLI. Press Enter.

Create PM Notification: BD Report Excavation



Coding

Description

Breakdown in dumper.... mention you issue or malfunction Details.

Responsibilities

Planner group  /

Main WorkCtr  /

Excavation Dept

Project Engine

Reported by

Notif.date 12.09.2021 23:16:16

Start/End Dates

Required Start 12.09.2021 23:16:16 Priority


Required End  00:00:00 ☒ Breakdown

XLII. On a pop-up window, enter **Malfunction start** date and **Start Malfn (T)** time.

XLIII. Click the ok/continue button.

XLIV. Click the save button.

Create PM Notification: BD Report Excavation



Coding

Description

Breakdown in dumper.... mention you issue or malfunction Details.

Malfunction start 12.09.2021

Start Malfn (T) 23:16:16

Responsibilities

Planner group

Main WorkCtr

Excavation Dept

Project Engine

Reported by

Notif.date 12.09.2021 23:16:16

Start/End Dates

Required Start 12.09.2021 23:16:16 Priority

Required End  00:00:00 ☒ Breakdown

The data is saved and notification number is displayed at the bottom of the page.

✓ Notification 1000002117 saved

Workflow will trigger.

XLV. Click ok/continue button.

**Note:** Optionally, you can choose other option by clicking the 'Choose' button.



Express Information

Express document "PM Notification 1000002117 is created" received from author "W"

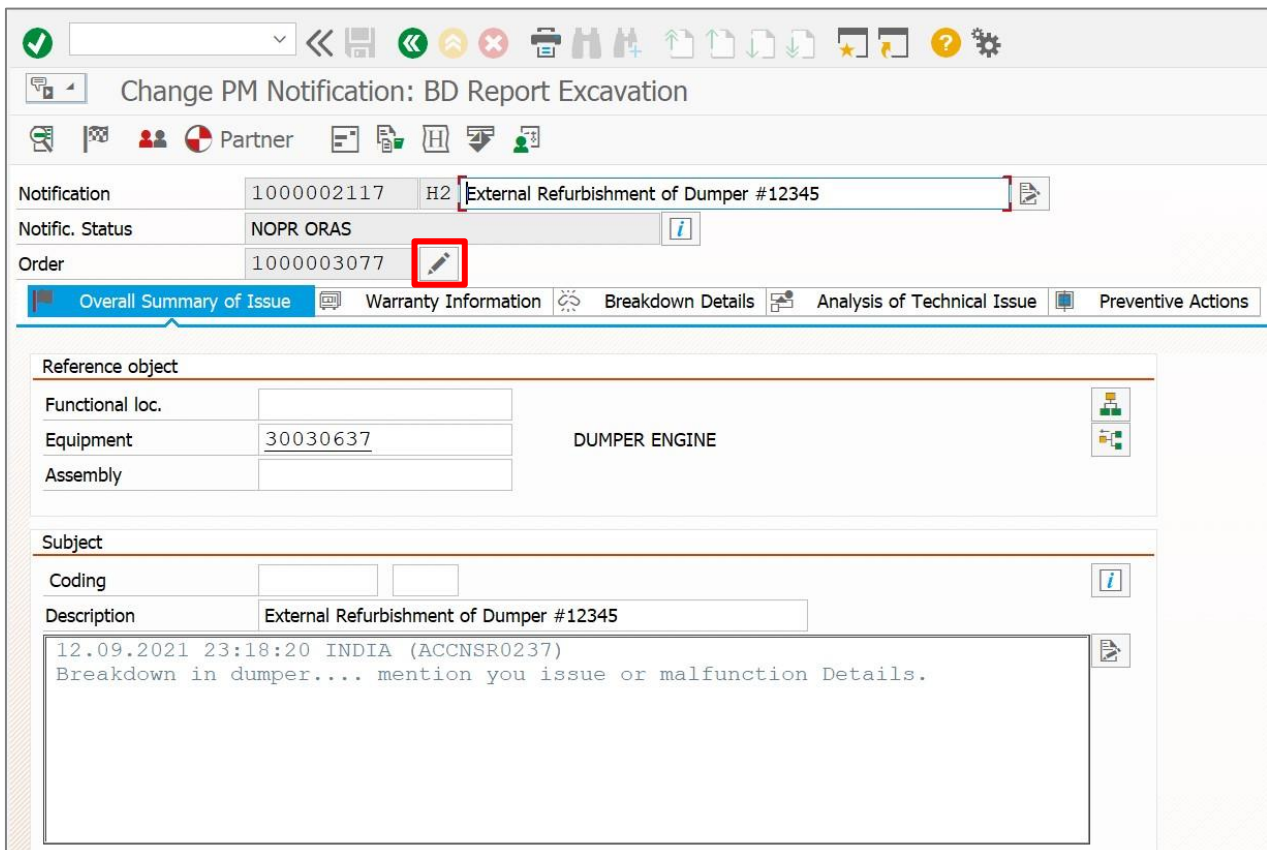
< > ... < >

✓ Choose Inbox

XLVI. Enter the **Description**.

XLVII. Press Enter.

XLVIII. Click the new button against **Order** field.



Change PM Notification: BD Report Excavation

Notification: 1000002117 H2 External Refurbishment of Dumper #12345

Notific. Status: NOPR ORAS

Order: 1000003077

Overall Summary of Issue Warranty Information Breakdown Details Analysis of Technical Issue Preventive Actions

Reference object

Functional loc.

Equipment: 30030637 DUMPER ENGINE

Assembly

Subject

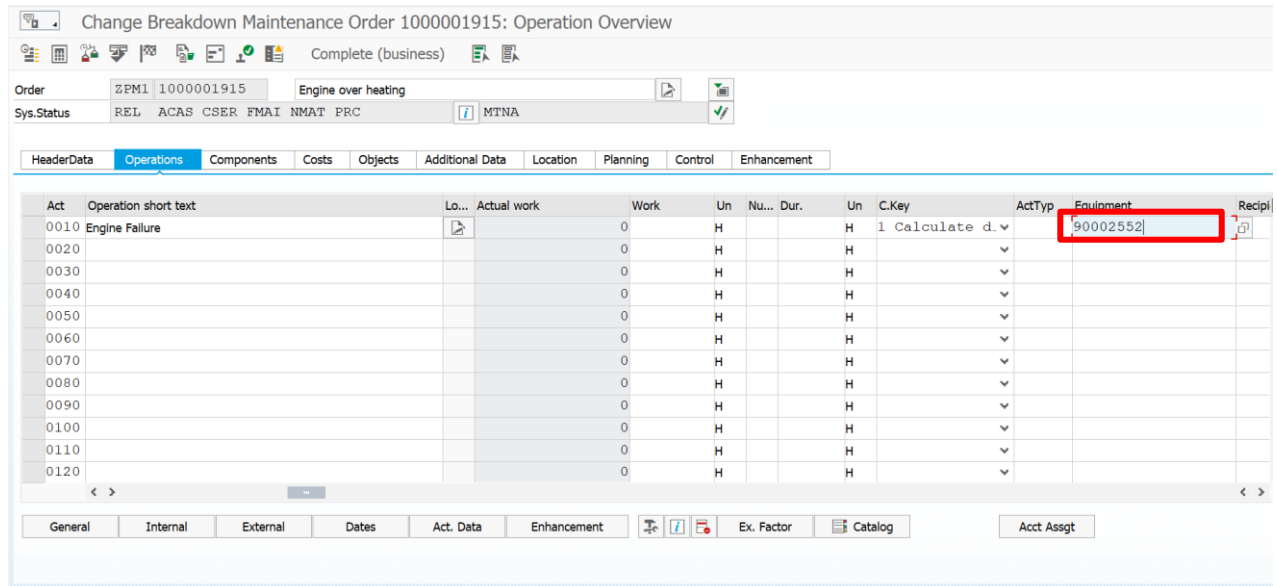
Coding

Description: External Refurbishment of Dumper #12345

12.09.2021 23:18:20 INDIA (ACCNSR0237)  
Breakdown in dumper.... mention you issue or malfunction Details.

XLIX. Click **Operations** tab.

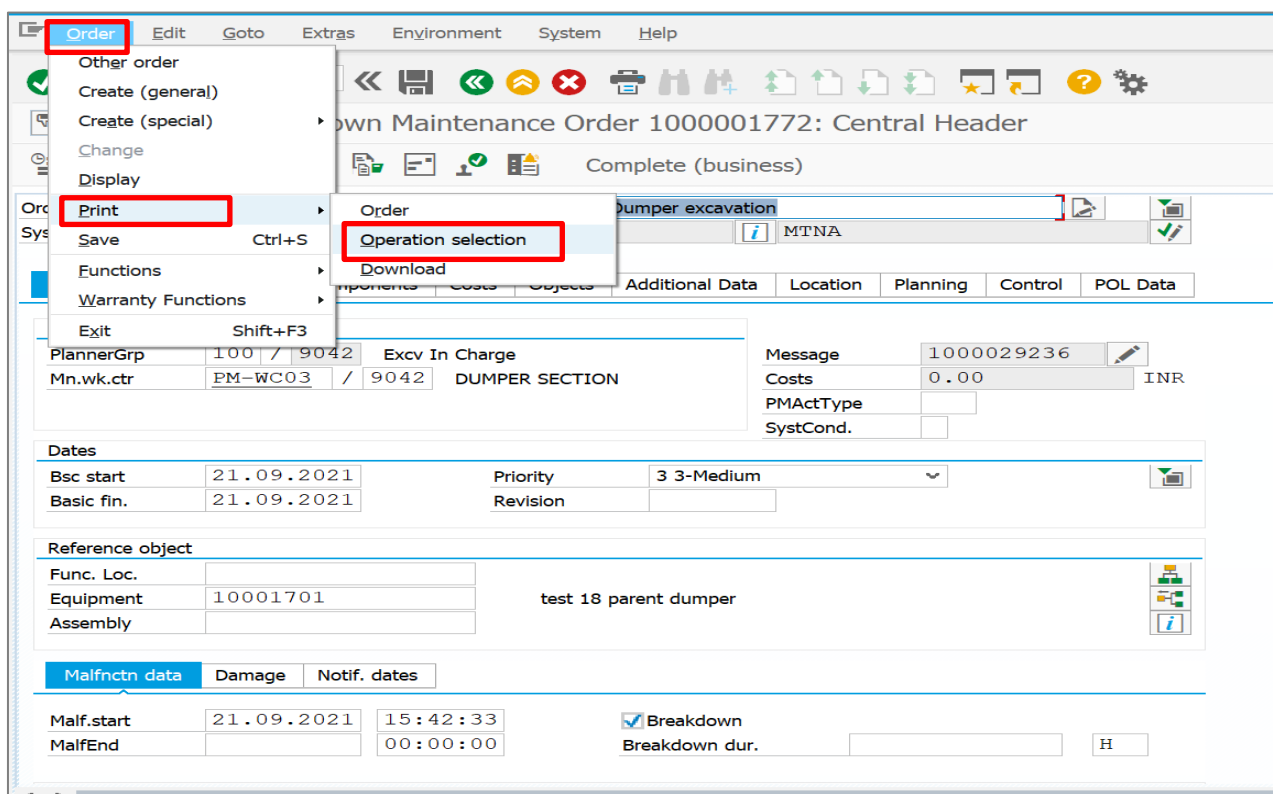
L. Enter Sub-Equipment No. on Equipment tab and press Enter & Save.



Act	Operation short text	Lo...	Actual work	Work	Un	Nu...	Dur.	Un	C.Key	ActTyp	Equipment	Recip
0010	Engine Failure			0	H			H	1 Calculate d.v		90002552	
0020				0	H			H				
0030				0	H			H				
0040				0	H			H				
0050				0	H			H				
0060				0	H			H				
0070				0	H			H				
0080				0	H			H				
0090				0	H			H				
0100				0	H			H				
0110				0	H			H				
0120				0	H			H				

## Create R-Form

- I. Execute transaction code **IW32** from SAP command field.
- II. Enter **Maint. Order** Number.
- III. Click **Order** menu from the top menu bar.
- IV. Click **Print >> Operation Selection** option.



**Order** Edit Goto Extras Environment System Help

Other order  
Create (general)  
Create (special)  
Change  
Display  
**Print**  
Save Ctrl+S  
Functions  
Warranty Functions  
Exit Shift+F3

Order  
Operation selection  
Download

Down Maintenance Order 1000001772: Central Header

Complete (business)

Order: Dumper excavation  
Sys: MTNA

PlannerGrp: 100 / 9042 Excv In Charge  
Mn.wk.ctr: PM-WC03 / 9042 DUMPER SECTION

Message: 1000029236  
Costs: 0.00 INR  
PMActType:  
SystCond.:

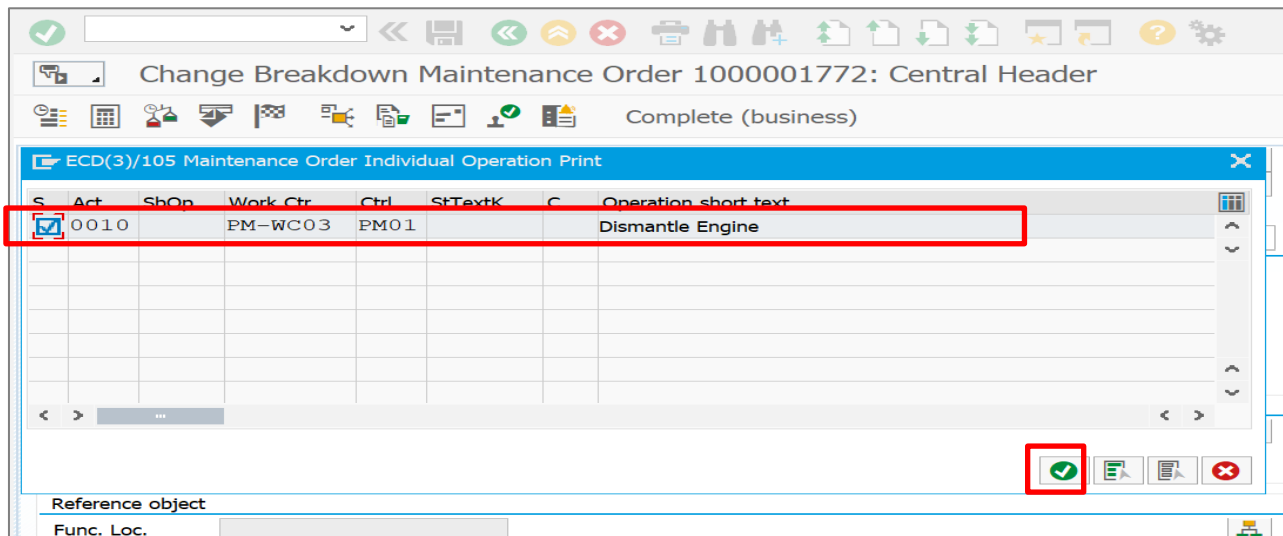
Dates  
Bsc start: 21.09.2021 Priority: 3 3-Medium  
Basic fin.: 21.09.2021 Revision:

Reference object  
Func. Loc.:  
Equipment: 10001701 test 18 parent dumper  
Assembly:

Malfctn data Damage Notif. dates

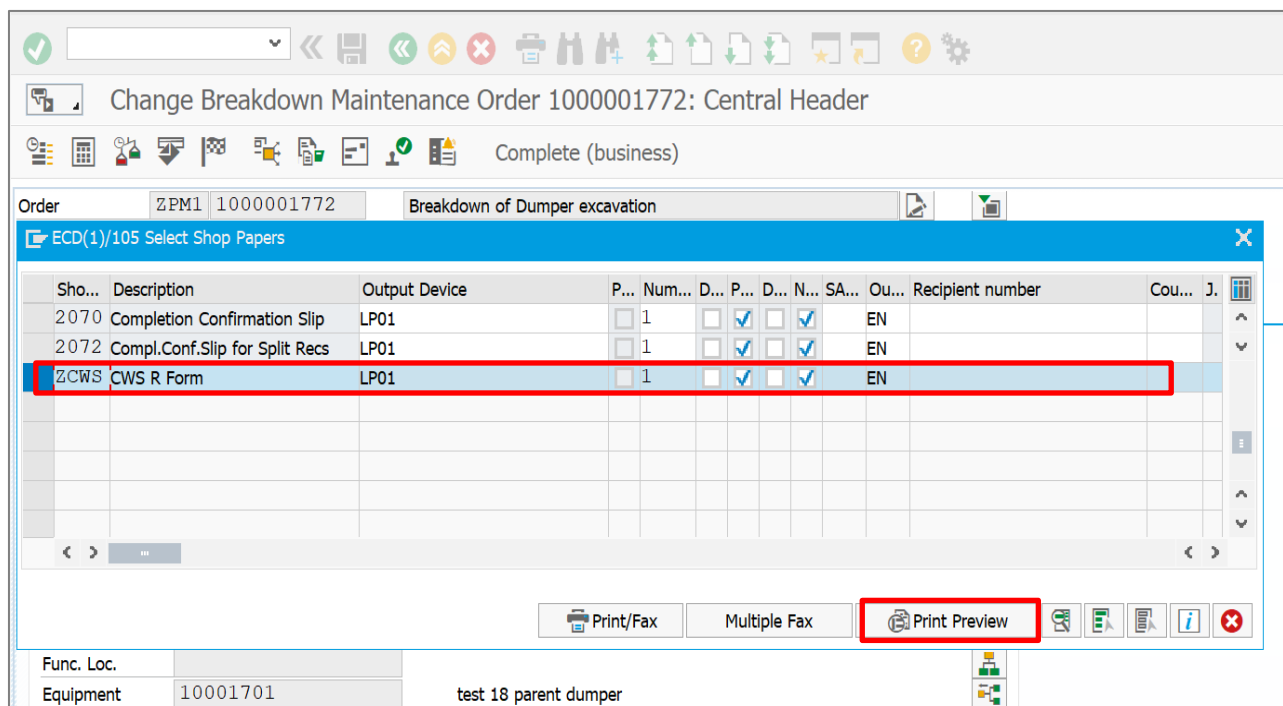
Malf.start: 21.09.2021 15:42:33 Breakdown  
MalfEnd: 00:00:00 Breakdown dur. H

- V. Select the Operation Activity for which R-Format print is needed.
- VI. Click OK/continue button.



S...	Act	ShOp	Work Ctr	Ctrl	StTextK	C	Operation short text
<input checked="" type="checkbox"/>	0010		PM-WC03	PM01			Dismantle Engine

- VII. Select the Shop Paper "ZCWS" – CWS R Form from List of Shop Papers.
- VIII. Click on **Print Preview** button. You can now save the PDF or print directly.



Sho...	Description	Output Device	P...	Num...	D...	P...	D...	N...	SA...	Ou...	Recipient number	Cou...	J.
2070	Completion Confirmation Slip	LP01	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		EN			
2072	Compl.Conf.Slip for Split Recs	LP01	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		EN			
<b>ZCWS</b>	<b>CWS R Form</b>	LP01	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		EN			

Print the R-Form.

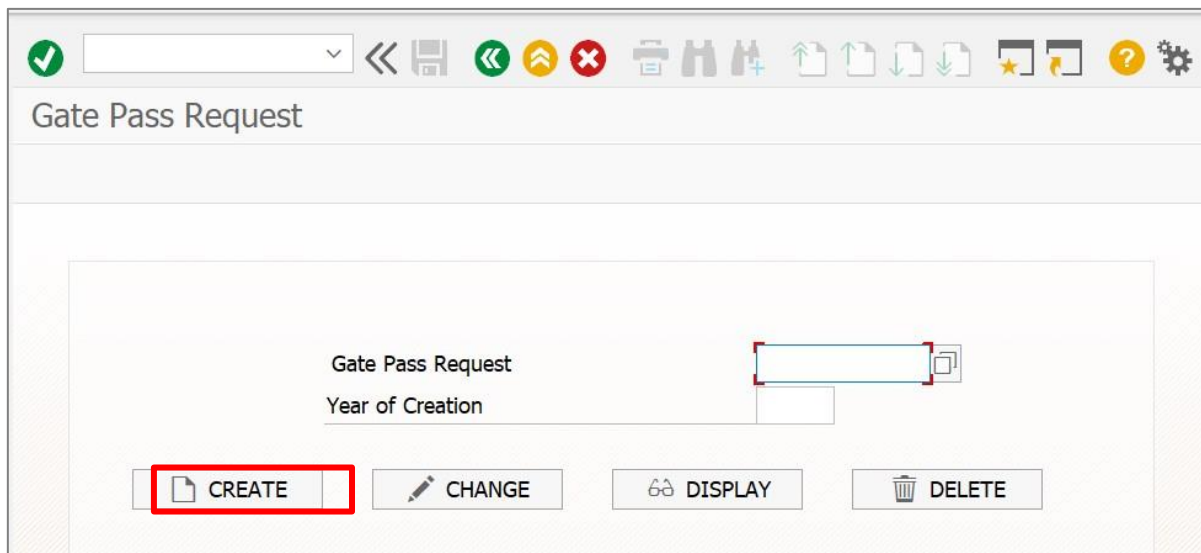
Print Preview, Document 1 of 1

Western Coalfields Ltd WANI AREA Mangoli Nurguda OC Mine WORKORDER CUM R-FORMAT (CWS)	
MAINTENANCE ORDER REF:	1000001772
Date:	Aug 21, 2022
<p>WITH REFERENCE TO THE ABOVE MAINTENANCE ORDER, THE SUB-ASSEMBLY (DETAILS GIVEN BELOW) IS BEING SENT TO CWS FOR REPAIRS/ OVERHAULS/REMOVED FROM SURVIVED OFF EQUIPMENT. REPLACEMENT OF SUB-ASSEMBLY IS REQUIRED. NOT REQUIRED CERTIFIED THAT NECESSARY BUDGETARY PROVISIONS FOR THE REPAIRS EXISTS AND DEBIT FOR EXPENDITURE WILL BE ACCEPTED WHEN RAISED.</p>	
1. NAME OF THE PROJECT	3642 Mangoli Nurguda OC Mine
2. S/P DETAILS OF ASSEMBLY COMPONENT	9000252-1st 18-cylid Engine
3. OEM SERIAL NO. OF SUB-ASSEMBLY	123144123
4. EQUIPMENT DETAILS ON WHICH IT WAS FITTED	10001701-1st 18-piston-dumper
5. DATE OF FAILURE	08/11/2021
6. DATE OF REMOVAL	Sep 18, 2021
7. CHOOSE TYPE OF SUB-ASSEMBLY	<input checked="" type="checkbox"/> Original (Received with Machine) <input type="checkbox"/> New <input type="checkbox"/> Reconditioned <input type="checkbox"/> Repaired
7A. IN CASE OF ORIGINAL OR NEW GIVE FOLLOWING DETAILS	
8. DATE OF INITIAL FITMENT ON M/C	
9. PROGRESSIVE HOURS OF THE ASSEMBLY	
7B. IN CASE OF REPAIRED/RECON. ASSEMBLY GIVE FOLLOWING DETAILS	
8. CHOOSE TYPE OF REPAIR OF SUB-ASSEMBLY	<input checked="" type="checkbox"/> Repaired (Departmentally) at site <input type="checkbox"/> Repaired by Outside Agency (Not through CWS) <input type="checkbox"/> Repaired from SPS
9. IN CASE OF OUTSIDE AGENCY MENTION NAME OF FIRM	
10. DATE OF FITMENT ON M/C	Sep 20, 2021
11. HOURS REQUIRED AFTER LAST REPAIR	1195
12. PROGRESSIVE HOURS OF THE ASSEMBLY	1195
9. IN CASE OF DEPARTMENTAL REPAIR AT SITE OR BY OUTSIDE AGENCY (NOT THROUGH CWS) GIVE FOLLOWING DETAILS	
10. DATE OF REPAIR / OVERHAUL	
11. TOTAL COST INCURRED ON REPAIR/SPARE COST IN CASE OF DEPT. REPAIR	
12. IN CASE THE REPAIRED/RECON. ASSEMBLY WAS RECEIVED FROM CWS GIVE FOLLOWING DETAILS	
13. PREVIOUS REPAIRMENT ORDER NUMBER AT CWS AND DATE	Order No: 3000000227 Date: Sep 1, 2021
14. DETAILS OF RECEIPT FROM CWS (GATE PASS NO/DATE)	
15. REASON OF PRESENT FAILURE	
16. WHY IT COULD NOT BE REPAIRED AT SITE, GIVE COMMENTS	
17. NO. OF OVERHAULS LAIRED OUT	1
18. REMARKS (IF ANY)	
(*) - Manual Entry	
NAME :	
DESIGNATION :	
SIGNATURE :	



## Create Gate Pass

- I. Execute transaction code **ZMM016** from SAP command field
- II. Click the **Create** button.

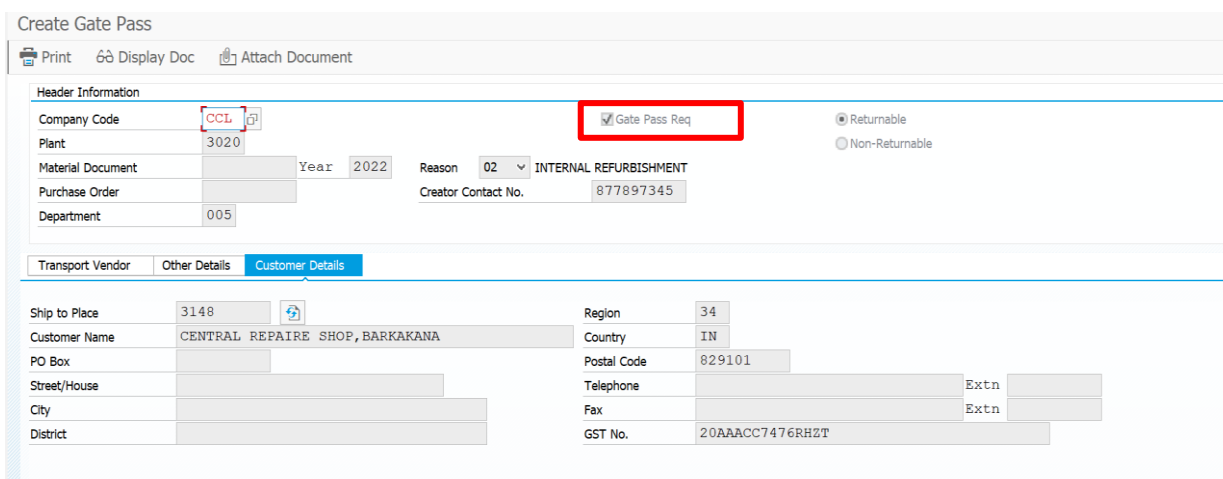


The screenshot shows the SAP 'Gate Pass Request' screen. At the top, there is a toolbar with various icons. Below the toolbar, the title 'Gate Pass Request' is displayed. The main area contains a form with the following fields:

- Gate Pass Request (text field)
- Year of Creation (text field)

At the bottom of the form, there are four buttons: **CREATE** (highlighted with a red box), **CHANGE**, **DISPLAY**, and **DELETE**.

- III. Enter the following details:
  - Click on Gate Pass Req. check box
  - Company Code
  - Plant
  - Department
  - Reason
- IV. Click the appropriate radio button as **Returnable/Non-Returnable**.
- V. In Ship to Vendor tab, enter **Ship to Place** and other vendor details.
- VI. Press Enter.



The screenshot shows the SAP 'Create Gate Pass' screen. The 'Gate Pass Req' checkbox is highlighted with a red box. The screen is divided into several sections:

- Header Information:**
  - Company Code: CCL
  - Plant: 3020
  - Material Document: [blank]
  - Purchase Order: [blank]
  - Department: 005
  - Year: 2022
  - Reason: 02
  - INTERNAL REFURBISHMENT
  - Creator Contact No.: 877897345
  - Gate Pass Req: ☒ (highlighted with a red box)
  - Returnable: ☐ (selected)
  - Non-Returnable: ☐
- Transport Vendor:** [blank]
- Other Details:** [blank]
- Customer Details:**
  - Ship to Place: 3148
  - Customer Name: CENTRAL REPAIR SHOP, BARKAKANA
  - PO Box: [blank]
  - Street/House: [blank]
  - City: [blank]
  - District: [blank]
  - Region: 34
  - Country: IN
  - Postal Code: 829101
  - Telephone: [blank]
  - Fax: [blank]
  - GST No.: 20AAACC7476RH2T

- VII. Add a row and enter the following details:
  - Equipment number
  - Material Number: w.r.t EQ. No.



- Sending Type
- Expect Return Date
- Quantity Unit
- Remarks

Create Gate Pass Request

Display Doc Attach Document

**Header Information**

Company Code: cc1 Plant: 3020 Material Document: Year: 2021 Reason: 02 I. INTERNAL REFURBISHMENT Purchase Order: Department: 003 Creator Contact No.: 9452357683

☒ Returnable ☐ Non-Returnable

**Ship to Vendor**

Ship to Place: 3148 Vendor Name: CENTRL WORKSHOP Region: 34 Jharkhand Country: IN India Postal Code: 829101 Telephone: Extn: Fax: Extn: GST No.: 20AAACC7476RHZT

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type
10			30030637	DUMPER ENGINE		Defective

Create Gate Pass Request

Display Doc Attach Document

**Ship to Vendor**

Ship to Place: 3148 Vendor Name: CENTRL WORKSHOP Region: 34 Jharkhand Country: IN India Postal Code: 829101 Telephone: Extn: Fax: Extn: GST No.: 20AAACC7476RHZT

**Item Details**

Asset No	SLoc	SLoc Desc	Expect Return	GPR Qty	Received GP Qty	UOM Rate	Approx. Value	Remarks
			30.09.2021	10,000	0,000	EA	0,00	ANY REMARKS

- VIII. Click the save button. A confirmation message will be displayed on the screen.
- IX. Click the **Yes** button.

Create Gate Pass Request

Display Doc Attach Document

**Header Information**

Company Code: CCL Plant: 3020 Material Document: Year: 2021 Reason: 02 I. INTERNAL REFURBISHMENT Purchase Order: Creator Contact No.: 9452357683 Department: 003

☒ Returnable ☐ Non-Returnable

**Ship to Vendor**

Ship to Place: 3148 Vendor Name: CENTR PO Box: Street/House: City: District: Telephone: Extn: Fax: Extn: GST No.: 20AAACC7476RH2T

**Confirmation**

Do you want to create Gate Pass Request ?

**Item Details**

Serial No	Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	Received GP Qty	UOM Rate	Approx. Value	Remarks
				30.09.2021	10,000	0,000	EA	0,00	ANY REMARKS

GATE PASS is created.

Create Gate Pass Request

Display Doc Attach Document

**Header Information**

Company Code: CCL Plant: 3020 Material Document: Year: 2021 Reason: 02 I. INTERNAL REFURBISHMENT Purchase Order: Creator Contact No.: 9452357683 Department: 003

☒ Returnable ☐ Non-Returnable

**Ship to Vendor**

Ship to Place: 3148 Vendor Name: CENTRQL WORKSHOP PO Box: Street/House: City: District: Region: 34 Jharkhand Country: IN India Postal Code: 829101 Telephone: Extn: Fax: Extn: GST No.: 20AAACC7476RH2T

**Information**

Gate Pass Request 1000000046 Created

**Item Details**

Serial No	Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	Received GP Qty	UOM Rate	Approx. Value	Remarks
				30.09.2021	10,000	0,000	EA	0,00	ANY REMARKS

### Approve/Reject Gate Pass

- I. Execute transaction code **ZMM017** from SAP command field.
- II. Enter **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click the **Decision** button.

Gate Pass Request

Gate Pass Request 1000000046  
Year of Creation 2021

? ► Decision

V. Check the gate pass details. Click **Approve** or **Reject** button as required.

Display Gate Pass Request - 1000000048/2021

Approve Reject Display Doc Attach Document

**Header Information**

Company Code CCL Plant 3020 Material Document Year 2021 Reason 03 EXTERNAL REFURBISHMENT Status CR GPR Created  
Purchase Order 5700000739 Creator Contact No. 9452357683  
Department 003

**Ship to Vendor**

Ship to Place 1005145 Region 34  
Vendor Name PANCHANAND PANDEY Country IN  
PO Box 1313455 Postal Code 825301  
Street/House Street no. 1 Telephone 988978777 Extn  
City HAZARIBAG Fax Extn  
District JHARKHAND GST No. 20AKAPM0293K1ZS

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	HSN Code
10	5800000042	ENGINE - ASHOK LEYLAND, A	30030637	DUMPER ENGINE		DEFECTIVE	

GATE PASS is approved.

Display Gate Pass Request - 1000000046/2021

Approve Reject Display Doc Attach Document

**Header Information**

Company Code CCL Plant 3020 Material Document Year 2021 Reason 02 INTERNAL REFURBISHMENT Status CR GPR Created  
Purchase Order Creator Contact No. 9452357683  
Department 003

**Ship to Vendor**

Ship to Place 3148 Region 34  
Vendor Name CENTRAL WORKSHOP Country IN  
PO Box Postal Code 829101  
Street/House Telephone Extn  
City Extn  
District 20AAACC7476RHZT

**Information**

Gate Pass Request 1000000046 Approved

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type
10			30030637	DUMPER ENGINE		DEFECTIVE

### Print Gate Pass

- I. Execute transaction code **ZMM016** in SAP command field.
- II. Enter approved **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click the **Display** button.

Gate Pass

Gate Pass
2000000023

Year of Creation
2021

CREATE

CHANGE

DISPLAY

DELETE

- V. Click **Print** button.

Display Gate Pass - 2000000023/2021

Print
Display Doc
Attach Document

Header Information

Company Code
CCL
Plant
3020
Material Document
Purchase Order
Department
003

Gate Pass Request
1000000046
Year of Creation
2021
Reason
02 I. INTERNAL REFURBISHMENT
Creator Contact No.
9452357683

☒ Returnable
☐ Non-Returnable
Status
GP Gate Pass Created

Transport Vendor
Other Details
Ship to Vendor

Transp. Vendor
Transporter
PO Box
Street/House
City
District

☐ New Vendor
Region
Country
Postal Code
Telephone
Fax
GST No.

Item Details

Item
Material
Material Description
Equipment
Equipment Description
Batch
Sending Type

10			30030637	MPER ENGINE		DEFECTIVE
----	--	--	----------	-------------	--	-----------

Printable output is generated.

Print Preview, Document 1 of 1

Shipping Details		Gate Pass Details		Other Details	
Shipping To	: 3148	Gate Pass No	: 2000000024	Company GSTN	: 20AAAC7476822
GSTN No	: 20AAAC7476822	Gate Pass Date	: Sep 12, 2021	Shipping GSTN	:
Contact Person	: KARTIK KUMAR	Department Name	: Excavation	Date of Departure	: Sep 12, 2021
Contact No	: 908770323925	PO No	:	Material Received By	: KARTIK KUMAR
Challan Type	: Returnable	PO Date	:	Insurance Payer	: COWP
Vehicle No	: JH11A27689	Transporter Name	:		
Transport Mode	: ROAD	Reason of Gate Pass	: INTERNAL RESPONSIBILITY		
Arrival City	: BAKHARJHANA	Departure City	: BAKHARJHANA		
W.B.Ref No	:	Status	: Exit Not Allowed		

Sl No.	Material Code	Material Description	Material Serial No	MRN Code	Quantity	UOM	Material Condition	Unit Rate	Total Value	Expected Return Date
1	5800000042	ENGINE - ASHOK LEPARD, ASHOK TRUCK			10	EA	Defective	0	0	Sep 30, 2021

Prepared By: \_\_\_\_\_ Receiver Signature: \_\_\_\_\_ Authorized Signature: \_\_\_\_\_

### Change Gate Pass By CWS/RWS

- I. Execute transaction code **ZMM016\_N** in SAP command field.
- II. Enter approved **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click the **Change** button.

Return to Receive Gate

Return Material 2000000024

Year of Creation 2021

CREATE
 CHANGE
DISPLAY
 DELETE

- V. Now check mark receive Indicator and give some remarks too and save it. E.g Material received by CWS (this task to be done by CWS).

Change Gate Pass - 2000000024/2021

Print Display Doc Attach Document

**Header Information**

Company Code	CCL	Gate Pass Request	1000000047	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document		Year	2021	Reason 02 1 INTERNAL REFURBISHMENT
Purchase Order		Creator Contact No.	9452357683	Status GP Gate Pass Created
Department	003			<input checked="" type="checkbox"/> Receive Ind
				Received Remarks GOODS RECEIVED BY SASWAT RAYSAMANT

**Transport Vendor** Other Details Ship to Vendor

Transp. Vendor	<input type="text"/>	<input type="checkbox"/> New Vendor	Region	<input type="text"/>
Transporter	<input type="text"/>		Country	<input type="text"/>
PO Box	<input type="text"/>		Postal Code	<input type="text"/>
Street/House	<input type="text"/>		Telephone	<input type="text"/> Extn <input type="text"/>
City	<input type="text"/>		Fax	<input type="text"/> Extn <input type="text"/>
District	<input type="text"/>		GST No.	<input type="text"/>

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	HSN Code
10	5800000042	ENGINE - ASHOK LEYLAND, A.30030637		DUMPER ENGINE		Defective	

## Change Equipment Location

- I. Execute transaction code **IE02** from SAP transaction code.
- II. Enter Install **Equipment** number.

Change Equipment : Initial Screen

Equipment

- III. Click the **Location** tab.
- IV. Click on change maintenance plant icon.



**Change Equipment : Location**

Class overview Measuring points/counters

Equipment: 30030637 Category: R Rotables

Description: DUMPER ENGINE Intern.note

Status: AVLB NEW

Valid From: 12.09.2021 Valid To: 31.12.9999

General **Location** Organization Structure Supplier Warranty SerData

**Location data**

MaintPlant: 3020 NORTH URIMARI SCHEME OC

Location:

Room:

Plant section:

Work center:

ABC indic.:

Sort field:

- V. Enter maintenance plant number (CWS/RWS) in **MaintPlant** field.
- VI. Click OK/continue button.

**Change Equipment : Location**

Class overview Measuring points/counters

Equipment: 30030637 Category: R Rotables

Description: DUMPER ENGINE Intern.note

Status: AVLB NEW

Valid From: 12.09.2021 Valid To: 31.12.9999

General **Location** Change Maintenance Plant

MaintPlant: 3148

Location data

MaintPlant:

Location:

Room:

Plant section:

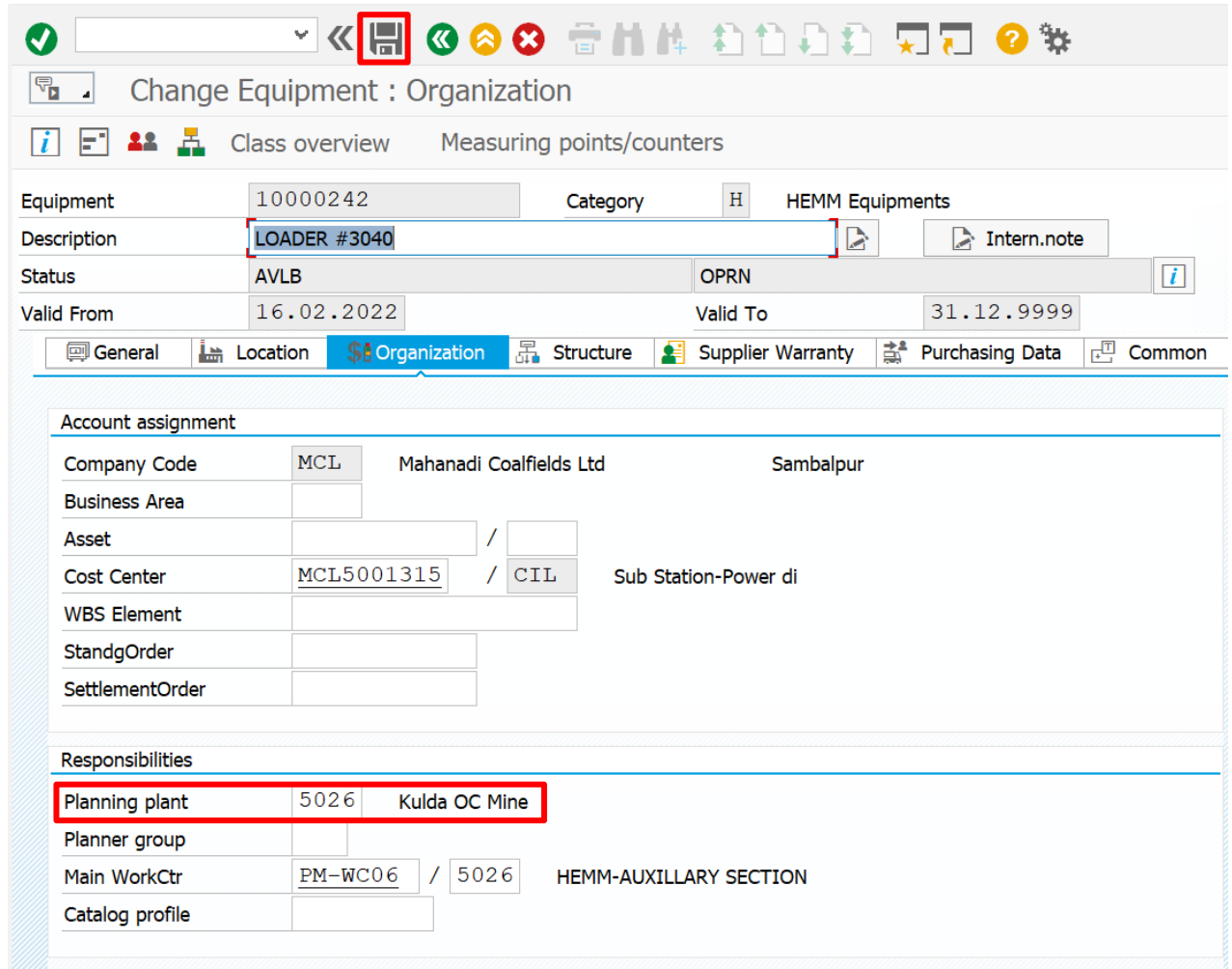
Work center:

ABC indic.:

OK X



- VII. Click **Organization** tab.
- VIII. Change Planning Plant of the Equipment



**Change Equipment : Organization**

Class overview Measuring points/counters

Equipment: 10000242 Category: H HEMM Equipments  
 Description: LOADER #3040 Intern.note  
 Status: AVLB OPRN  
 Valid From: 16.02.2022 Valid To: 31.12.9999

General Location **Organization** Structure Supplier Warranty Purchasing Data Common

**Account assignment**

Company Code: MCL Mahanadi Coalfields Ltd Sambalpur  
 Business Area:  
 Asset: /  
 Cost Center: MCL5001315 / CIL Sub Station-Power di  
 WBS Element:  
 StandgOrder:  
 SettlementOrder:

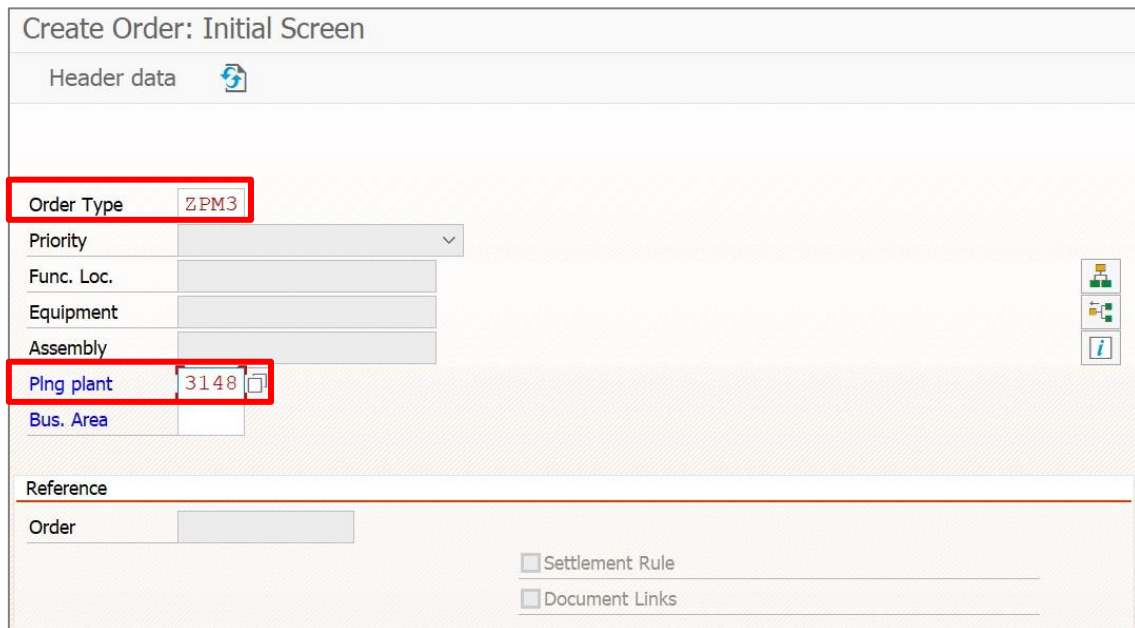
**Responsibilities**

**Planning plant: 5026 Kulda OC Mine**  
 Planner group:  
 Main WorkCtr: PM-WC06 / 5026 HEMM-AUXILLARY SECTION  
 Catalog profile:

- IX. Click the save button.
- Equipment is successfully installed at CWS.
- The status is displayed at the bottom of the page.

### Create Refurbishment Order by CWS

- I. Execute transaction code **IW31** from SAP command field.
- II. Enter **Order Type** as ZPM3.
- III. Enter **Planning Plant** number.
- IV. Press Enter.



The screenshot displays the 'Create Order: Initial Screen' in SAP. The 'Header data' section contains several input fields. The 'Order Type' field is set to 'ZPM3' and is highlighted with a red box. Below it, the 'Plng plant' field is set to '3148' and is also highlighted with a red box. Other fields like 'Priority', 'Func. Loc.', 'Equipment', and 'Assembly' are present but empty. The 'Reference' section at the bottom has an 'Order' field. On the right side, there are icons for organizational structure, a green flag (release icon), and an information icon. At the bottom right, there are checkboxes for 'Settlement Rule' and 'Document Links'.

- V. Enter the following details:
  - Planner group
  - Maintenance work Center
  - Equipment number
- VI. Click the release icon (green flag).

Order: ZPM3 %00000000001 Repairing of ENGINE no. #12345  
Sys.Status: CRTD MANC NTUP MTNA

**HeaderData** Operations Components Costs Objects Additional Data Location Planning Control Enhancement

Person responsible  
PlannerGrp: 121 / 3148 Work Managr Repair  
Mn.wk.ctr: PM-WC49 / 3148 ELECTRICAL MAINT

Message  
Costs: INR  
PMActType: SER Repair & Overhaul  
SystCond.

Dates  
Bsc start: 12.09.2021 Priority  
Basic fin.: 12.09.2021 Revision

Reference object  
Func. Loc.: CCL-CRS-C-3148-CRS CENTRAL REPAIR SHOP,BARKAKANA  
Equipment: 30030637 DUMPER ENGINE  
Assembly

- VII. Click the save button.
- VIII. Click the **Operations** tab.
- IX. Enter **Operation short text**.
- X. Click the save button.

Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Operation

Complete (business)

Order: ZPM3 3000000192 Repairing of ENGINE no. #12345  
Sys.Status: REL NMAT PRC MTNA

**HeaderData** **Operations** Components Costs Objects Additional Data Location Planning Control Enhancement

Act	SOp	Work Ctr	Plant	Cont...	StTextK	S... Operation short text	Lo...	Actual work
0010		PM-WC49	3148	PM01		Repairing of ENGINE no. #12345		
0020		PM-WC49	3148	PM01				
0030		PM-WC49	3148	PM01				
0040		PM-WC49	3148	PM01				
0050		PM-WC49	3148	PM01				
0060		PM-WC49	3148	PM01				
0070		PM-WC49	3148	PM01				
0080		PM-WC49	3148	PM01				
0090		PM-WC49	3148	PM01				
0100		PM-WC49	3148	PM01				

- XI. Click the **Components** tab.
- XII. On item level, select **Component** number and enter **Manufacturer Number** against each component.
- XIII. Click the Settlement Rule.

Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Component

Complete (business)

Order ZPM3 3000000192 Repairing of ENGINE no. #12345

Sys.Status REL MANC NMAT PRC MTNA

HeaderData Operations **Components** Costs Objects Additional Data Location Planning Control Enhancement

Item...	Component	Description	Manufacturer Part No	Lo...	Reqmnt Qty
0010	4400244767	GASKET	4N0933		
0020	5300000051	Transmission Assembly	123456		
0030					
0040					
0050					
0060					
0070					
0080					
0090					

XIV. Change the cost center of sending plant in the **Settlement Receiver** column.

XV. Click the back button.

XVI. Click the save button.

Maintain Settlement Rule: Overview

Order 3000000192 Repairing of ENGINE no. #12345

Actual settlement

Distribution rules

Cat	Settlement Receiver	Receiver Short Text	%	Equivalence no.	Amount	A...	Settl...	No.	Str...	From ...	From Fi...
CTR	CCL3020200	CRSBK_E&M	100,00				FUL	1			
CTR	CCL3020200	SBK_E&M	100,00				PER	2			

Notice that the status settlement rule changed.

Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Central He

Complete (business)

Order ZPM3 3000000192 Repairing of ENGINE no. #12345

Sys.Status REL MANC PRC **SETC** MTNA

HeaderData Operations Components Costs Objects Additional Data Location Planning Control Enhancement

Person responsible

PlannerGrp 121 / 3148 Work Managr Repair

Mn.wk.ctr PM-WC49 / 3148 ELECTRICAL MAINT

Message

Costs 0,00 INR

PMActType SER Repair & Overhaul

SystCond.

Dates

Bsc start 12.09.2021 Priority













Basic fin. 13.09.2021 Revision

### Time Confirmation of Order

Go to **IW41**

Enter order no and Continue.

Enter Actual Work Duration and click on Clear open Res and **Save**.

Enter PM Order Confirmation: Actual Data

[Goods Movements](#)
[Notification](#)
[Object List](#)
[Measurement Documents](#)

Order	7000000101		
Activity	0010	Transmission Failure Testing	
System Status	REL		

Confirmation Data

Confirmation	389954		
Work Center	PM-WC01	1204	ELECTRICAL TEAM
Personnel no.			
Actual Work	5	H	Activity Type
	<input checked="" type="checkbox"/> Final Confirmtn <input checked="" type="checkbox"/> No Remain. Work		Wage type
	<input checked="" type="checkbox"/> Clear Open Res.         Remaining Work		Posting Date
			21.08.2022
			AcctIndicator
Work Start	30.06.2022	24:00:00	Actual Duration
Work Finish	21.08.2022	23:59:25	Forecast End
			24:00:00
Reason			
Confirm. text			

☐ Long text exists


Total Confirmation Data

Cum.Actual Work	0	H	ActDuratn	0	H
Forecast work	0	H	Planned Dur.	0.0	H
Actual Start		00:00:00	Actual End		00:00:00


## Order Settlement

- I. Execute transaction code **KO88** in SAP command field.
- II. Enter **Order** number.
- III. Enter **Processing type**.
- IV. Click the **Settlement Rule**.

Actual Settlement: Order

 **Settlement Rule**


Controlling Area CIL

Order 3000000192 

Parameters

Settlement period 1 Posting period

Fiscal Year 2021 Asset Value Date

Processing type 1 Automatic 

Processing Options

☒ Test Run


☐ Check trans. data



Go to **IW32** Enter Order no.



Complete the by click on checked flag.

- V. Enter **Reference date** and **Reference time**.
- VI. Click ok/continue button.
- VII. Click the save button.



Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Central He

 Complete (business)

Order ZPM3 3000000192 Repairing of ENGINE no. #12345  

Sys.Status REL MANC PRC SETC  ARPD 

HeaderData Operations Components Costs Objects Additional Data Location Planning Control Enhancement

 Complete 

Per:

Pla:

M:

Reference date 13.09.2021



Reference time 19:04:00

☒ Complete notifctns

Dat:

Bsc:

Bas:

 Usage list 




## Change Gate Pass

- I. Execute transaction code **ZMM018** from SAP command field.
- II. Enter **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click the **Change** button.

Gate Pass

Gate Pass 2000000024

Year of Creation 2021

 CHANGE

- V. Enter **Receiving Gate Pass Quantity** and **Receiving type**.

Change Gate Pass - 2000000024/2021

Print Display Doc Attach Document

Vendor Other Details Ship to Vendor

VEND Vendor	Ins. Payer	COMP CIL	Statutory Clearance	Y -
red By KARTIK KUMAR	Mode of Transport	ROAD	Discrepancy No	
er	Vehicle Number	JH01AG7689	Indemnity Bond No	
	Lorry Receipt Date	12.09.2021	Insurance Company	
RANCHI	Arrival city	BARKHAKHANA	Original PO No.	
cy No.	Insurance Policy Dt.		Notification Number	
	Contact Person	KARTIK KUMAR	PM Order Number	

Receiving type	HSN Code	Serial No	Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	GP Qty	Received GP Qty
				U001		30.09.2021	10,000	10,000	

- VI. Change arrival , Departure city , Enter PM order number also in Others Details tab.
- VII. Click the save button.



Change Gate Pass - 2000000024/2021

Print Display Doc Attach Document

**Header Information**

Company Code	CCL	Gate Pass Request	1000000047	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document		Year	2021	Reason 02 I INTERNAL REFURBISHMENT
Purchase Order		Creator Contact No.	9452357683	Status GP Gate Pass Created
Department	003			<input type="checkbox"/> Close GP

Transport Vendor Other Details Ship to Vendor

FreightPayer	VEND Vendor	Ins. Payer	COMP CIL	Statutory Clearance	Y
Material Received By	KARTIK KUMAR	Mode of Transport	ROAD	Discrepancy No	
Way Bill Number		Vehicle Number	JH01AG7689	Indemnity Bond No	
LR Number		Lorry Receipt Date	12.09.2021	Insurance Company	
Depart.city	BARKHAKHANA	Arrival city	RANCHI	Original PO No.	
Insurance Policy No.		Insurance Policy Dt.		Notification Number	
Remark 1		Contact Person	KARTIK KUMAR	PM Order Number	3000000192

Item Details

Sending Type	Receiving type	HSN Code	Serial No	Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	GP Qty	Received GP
DEFECTIVE	Repaired				U001		30.09.2021	10,000	10,000	6,000

Gate Pass has been saved.

Change Gate Pass - 2000000024/2021

Print Display Doc Attach Document

**Header Information**

Company Code	CCL	Gate Pass Request	1000000047	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document		Year	2021	Reason 02 I INTERNAL REFURBISHMENT
Purchase Order		Creator Contact No.	9452357683	Status GP Gate Pass Created
Department	003			<input type="checkbox"/> Close GP

Transport Vendor Other Details Ship to Vendor

FreightPayer	VEND Vendor	Ins. Payer	COMP CIL	Statutory Clearance	Y
Material Received By	KARTIK KUMAR	Mode of Transport	ROAD	Discrepancy No	
Way Bill Number		Vehicle Number	JH01AG7689	Indemnity Bond No	
LR Number		Lorry Receipt Date	12.09.2021	Insurance Company	
Depart.city	BARKHAKHANA	Arrival city	RANCHI	Original PO No.	
Insurance Policy No.		Insurance Policy Dt.		Notification Number	
Remark 1		Contact Person	KARTIK KUMAR	PM Order Number	3000000192

Item Details

Sending Type	Receiving type	HSN Code	Serial No	Asset No	SLoc	S.Loc Desc	Expect Return	GPR Qty	GP Qty	Received GP
DEFECTIVE	REPAIRED				U001		30.09.2021	10,000	10,000	6,000

## Display Gate Pass

- I. Execute transaction code **ZMM018** from SAP command field.
- II. Enter **Gate Pass** number.
- III. Enter **Year of Creation**.
- IV. Click **Display** button.

Gate Pass

Gate Pass

2000000024

Year of Creation

2021

CREATE

CHANGE

DISPLAY

DELETE

V. Click the **Print** icon.

Display Gate Pass - 2000000024/2021

**Print** Display Doc Attach Document

**Header Information**



Company Code	CCL	Gate Pass Request	1000000047	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document		Year	2021	Reason
Purchase Order			02 I. INTERNAL REFURBISHMENT	Status
Department	003	Creator Contact No.	9452357683	GP Gate Pass Created

Transport Vendor Other Details Ship to Vendor

FreightPayer	VEND Vendor	Ins. Payer	COMP CIL	Statutory Clearance	Y
Material Received By	KARTIK KUMAR	Mode of Transport	ROAD	Discrepancy No	0
Way Bill Number		Vehicle Number	JH01AG7689	Indemnity Bond No	
LR Number		Lorry Receipt Date	12.09.2021	Insurance Company	
Depart.city	BARKHAKHANA	Arrival city	RANCHI	Original PO No.	
Insurance Policy No.		Insurance Policy Dt.		Notification Number	
Remark 1		Contact Person	KARTIK KUMAR	PM Order Number	3000000192

Printable output for sending back to mine is displayed.

Print Preview, Document 1 of 1

General Gate Pass

**Shipping Details**

Shipping To	3168	Gate Pass No	2000000024	Company GUTN	20AAAC07478827
GUTN No	20AAAC07478827	Gate Pass Date	Sep 12, 2021	Shipping GUTN	
Contact Person	KARTIK KUMAR	Department Name	Recreation	Date of Departure	Sep 12, 2021
Contact No	098770323925	PO No.		Maintenance Code No	3000000192
Challan Type	Returnable	PO Date		Material Received By	KARTIK KUMAR
Vehicle No.	JH01AG7689	Transporter Name		Insurance Payer	COMP
Transport Mode	ROAD	Reason of Gate Pass	INTERNAL REFURBISHMENT		
Arrival City	RANCHI	Departure City	BARKHAKHANA		
W.B.Ref No		Status	Exit Not Allowed		

**Gate Pass Details**

Sl No.	Material Code	Material Description	Material Serial No.	RUN Code	Quantity	UOM	Material Condition	Quik Date	Total Value	Reported Return Date
1	5800000042	BRITISH - ALUMINUM LEYLAND, ALUMINUM TICS			10	EA	EXPERCTIVE	0	0	Sep 30, 2021

Prepared By Receiver Signature Authorized Signature

## Change Gate Pass


- I. Execute transaction code **ZMM018** from SAP command field.
- II. Click the **Change** button.

**Gate Pass**

---

Gate Pass 2000000024

Year of Creation 2021

 **CHANGE**

- III. Click the **Close GP** check option to close the gate pass.
- IV. Click the save button.

Change Gate Pass - 2000000024/2021

Print    Display Doc    Attach Document

---

**Header Information**

Company Code	CCL	Gate Pass Request	1000000047	<input checked="" type="radio"/> Returnable				
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable				
Material Document		Year	2021	Reason	02 I. INTERNAL REFURBISHMENT	Status	GP	Gate Pass Created
Purchase Order		Creator Contact No.	9452357683	<input checked="" type="checkbox"/> Close GP				
Department	003							

---

**Transport Vendor**    Other Details    Ship to Vendor

---

Transp. Vendor	<input type="text"/>	<input type="checkbox"/> New Vendor	Region	<input type="text"/>
Transporter	<input type="text"/>	Country	<input type="text"/>	
PO Box	<input type="text"/>	Postal Code	<input type="text"/>	
Street/House	<input type="text"/>	Telephone	<input type="text"/>	Extn <input type="text"/>
City	<input type="text"/>	Fax	<input type="text"/>	Extn <input type="text"/>
District	<input type="text"/>	GST No.	<input type="text"/>	

---

**Item Details**

Item	Material	Material Description	Equipment	Equipment Description	Batch	Sending Type	Receiving by
10	5800000042	ENGINE - ASHOK LEYLAND, A	30030637	DUMPER ENGINE		DEFECTIVE	Repaired

Gate pass is successfully CLOSED. It will be available only for display and not for any change. It's a confirmation that Equipment is now in plant(MINE)

Change Gate Pass - 2000000024/2021

Print    Display Doc    Attach Document

**Header Information**

Company Code	CCL	Gate Pass Request	1000000047	<input checked="" type="radio"/> Returnable
Plant	3020	Year of Creation	2021	<input type="radio"/> Non-Returnable
Material Document		Year	2021	Reason 02 I. INTERNAL REFURBISHMENT
Purchase Order		Creator Contact No.	9452357683	Status GP Gate Pass Created
Department	003			<input checked="" type="checkbox"/> Close GP

**Transport Vendor**    Other Details    Ship to Vendor

Transp. Vendor		<input type="checkbox"/> New Vendor	Region	
Transporter			Country	
PO Box			Postal Code	
Street/House			Telephone	
City			Extn	
District			Extn	

**Information**    X

Gate Pass 2000000024 Saved

**Item Details**

☐ ☐

### **Change Equipment By CWS/RWS**

- I. Execute transaction code **IE02** from SAP command field.
- II. Enter repaired **Equipment** number.
- III. Press Enter.

Change Equipment : Initial Screen

Equipment

- IV. Click **Structure** tab.
- V. Click the change install location icon.

**Change Equipment : Structure**

Class overview Measuring points/counters

Equipment: 30030637 Category: R Rotables

Description: DUMPER ENGINE Intern.note

Status: INST NEW

Valid From: 12.09.2021 Valid To: 31.12.9999

General Location Organization **Structure** Supplier Warranty SerData

**Structuring**

Functional loc.: CCL-CRS-C-3148-CRS

Description: CENTRAL REPAIR SHOP,BARKAKANA

Superord.Equip.:

Description:

Position: ENG

TechIdentNo.: D11968

ConstType:

**Equipment**

Pos.	Equipment	Sb-Eq	Description	EqmtType	Mfr	Mo:
		<input type="checkbox"/>				
		<input type="checkbox"/>				

VI. Enter dismantle time in **Inst/DismTime** field.

**Change Equipment : Structure**

Class overview Measuring points/counters

Equipment: 30030637 Category: R Rotables

Description: DUMPER ENGINE Intern.note

Status: INST NEW

Valid From: 12.09.2021 Valid To: 31.12.9999

General Location Organization **Structure** Supplier Warranty SerData

**Structuring**

Functional loc.: CCL-CRS-C-3148-CRS

Description: CENTRAL REPAIR SHOP,BARKAKANA

**Change Equipment Installation Location**

Functional loc.: CCL-CRS-C-3148-CRS CENTRAL REPAIR SHOP,BARKAKANA

Superord.Equip.:

Position: ENG

**Inst/DismTime**: 12.09.2021 12:29:59

☒ Dismantle Dism. w. DataTransfer Change installation position

VII. Press Enter and Save it.

You have successfully removed CWS function loc. Now you change plant.



**Change Equipment : Structure**

Class overview Measuring points/counters

Equipment: 30030637 Category: R Rotables

Description: DUMPER ENGINE Intern.note

Status: INST NEW

Valid From: 12.09.2021 Valid To: 31.12.9999

General Location Organization **Structure** Supplier Warranty SerData

**Structuring**

Functional loc.: CCL-CRS-C-3148-CRS

Description: CENTRAL REPAIR SHOP,BARKAKANA

**Change Equipment Installation Location**

Functional loc.:

Superord.Equip.:

Position:

Inst/DismTime: 12.09.2021 22:37:45

Inst. w. DataTransfer

- VIII. Click **Location** tab.
- IX. Click the change location icon.
- X. Enter the maintenance plant number.
- XI. Click ok/continue button.

**Change Equipment : Location**

Class overview Measuring points/counters

Equipment: 30030637 Category: R Rotables

Description: DUMPER ENGINE Intern.note

Status: AVLB NEW

Valid From: 12.09.2021 Valid To: 31.12.9999

General **Location** Change Maintenance Plant

**Change Maintenance Plant**

MaintPlant: 3148

Location data

MaintPlant:

Location:

Room:

Plant section:

Work center:

ABC indic.:

Sort field:

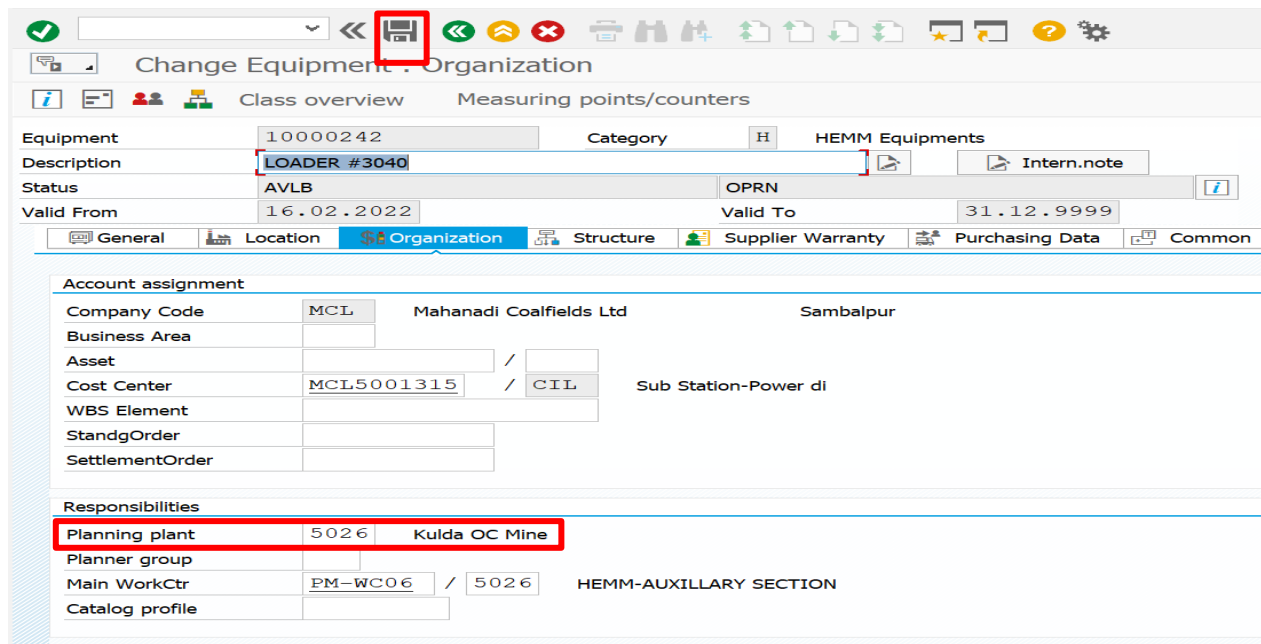
User data

Area Name: 3010 GM OFFICE, BARKA-SAYAL

Sub Area Name:

I. Click **Organization** tab.

II. Change Planning Plant of the Equipment



**Change Equipment - Organization**

Equipment: 10000242 Category: H HEMM Equipments  
 Description: **LOADER #3040** Intern.note  
 Status: AVLB OPRN  
 Valid From: 16.02.2022 Valid To: 31.12.9999

General Location **Organization** Structure Supplier Warranty Purchasing Data Common

**Account assignment**

Company Code	MCL	Mahanadi Coalfields Ltd	Sambalpur
Business Area			
Asset			
Cost Center	MCL5001315	CIL	Sub Station-Power di
WBS Element			
StandgOrder			
SettlementOrder			

**Responsibilities**

Planning plant	5026	Kulda OC Mine
Planner group		
Main WorkCtr	PM-WC06	5026 HEMM-AUXILLARY SECTION
Catalog profile		

XII. Click the save button.

Repaired Equipment returned back to MINE(Plant) Successfully.




### Installment of Equipment By Maint. Plant


- I. Execute transaction code **ZPM\_IE4N** from SAP command field .
- II. Select the **Process** of Installation from drop down option.
- III. Enter **Sub Equipment** number which needs to be Installation, Superord. Equipment, Sub-Equipment Position.
- IV. Enter the date and time of Installation.
- V. Click on execute icon.

You will get a Screen Showing Details of Installation equipment and its Notification created automatically with type "ZD" (For Installation "ZI" Type Notification is created).

IE4N substitute for installation and Dismantle



Equipment Installation/Dismantaling

Process	1 Installation ▼
Sub-Equipment	90002552
Superord. Equipment	10001701
Sub-Equipment Position	ENG
Equip Inst/Dism Date	21.09.2021
Eqmt Inst/Dism Time	16:00:00 

List

Edit

Goto

Settings

System

Help

Installation/Dismantle of Equipment












Superord. Equipment	Equipment	Position	Notification
10001701	90002552		1000029237

### Time Confirmation of Order

Go to **IW41**

Enter order no and Continue.

Enter Actual Work Duration and click on Clear open Res and **Save**.

Enter PM Order Confirmation: Actual Data

[Goods Movements](#)
[Notification](#)
[Object List](#)
[Measurement Documents](#)

Order	7000000101		
Activity	0010	Transmission Failure Testing	
System Status	REL		

Confirmation Data

Confirmation	389954		
Work Center	PM-WC01	1204	ELECTRICAL TEAM
Personnel no.			
Actual Work	5	H	Activity Type
	<input checked="" type="checkbox"/> Final Confirmtn	<input checked="" type="checkbox"/> No Remain. Work	Wage type
	<input checked="" type="checkbox"/> Clear Open Res.	Remaining Work	Posting Date
			21.08.2022
			AcctIndicator
Work Start	30.06.2022	24:00:00	Actual Duration
Work Finish	21.08.2022	23:59:25	Forecast End
			24:00:00
Reason			
Confirm. text			

☐ Long text exists

Total Confirmation Data


Cum.Actual Work	0	H	ActDuratn	0	H
Forecast work	0	H	Planned Dur.	0.0	H
Actual Start		00:00:00	Actual End		00:00:00

## Change Breakdown Maintenance Order

- I. Execute T-code **IW32/IW22** from SAP command field.
- II. Enter **Malfunction End Date and time**.
- III. Press Enter.

Basic fin.	13.09.2021	Revision	
Reference object			
Func. Loc.		DUMPER ENGINE	
Equipment	30030637		
Assembly			
<div>Malfnctn data    Damage    Notif. dates</div>			
Malf.start	12.09.2021	23:16:16	<input checked="" type="checkbox"/> Breakdown
MalfEnd	13.09.2021	01:05:17	Breakdown dur. 1,82 ED
First operation			
Operation	External Refurbishment of Dumper #12345		CcKey 1 Calculate duration
WkCtr/Plnt	PM-WC38 / 3020	Ctrl key PM03	Acty Type 100008 <input type="checkbox"/> PRT
Work durtn	0 H	Number	Oprtn dur. H <input type="checkbox"/> Comp.
Person. no			

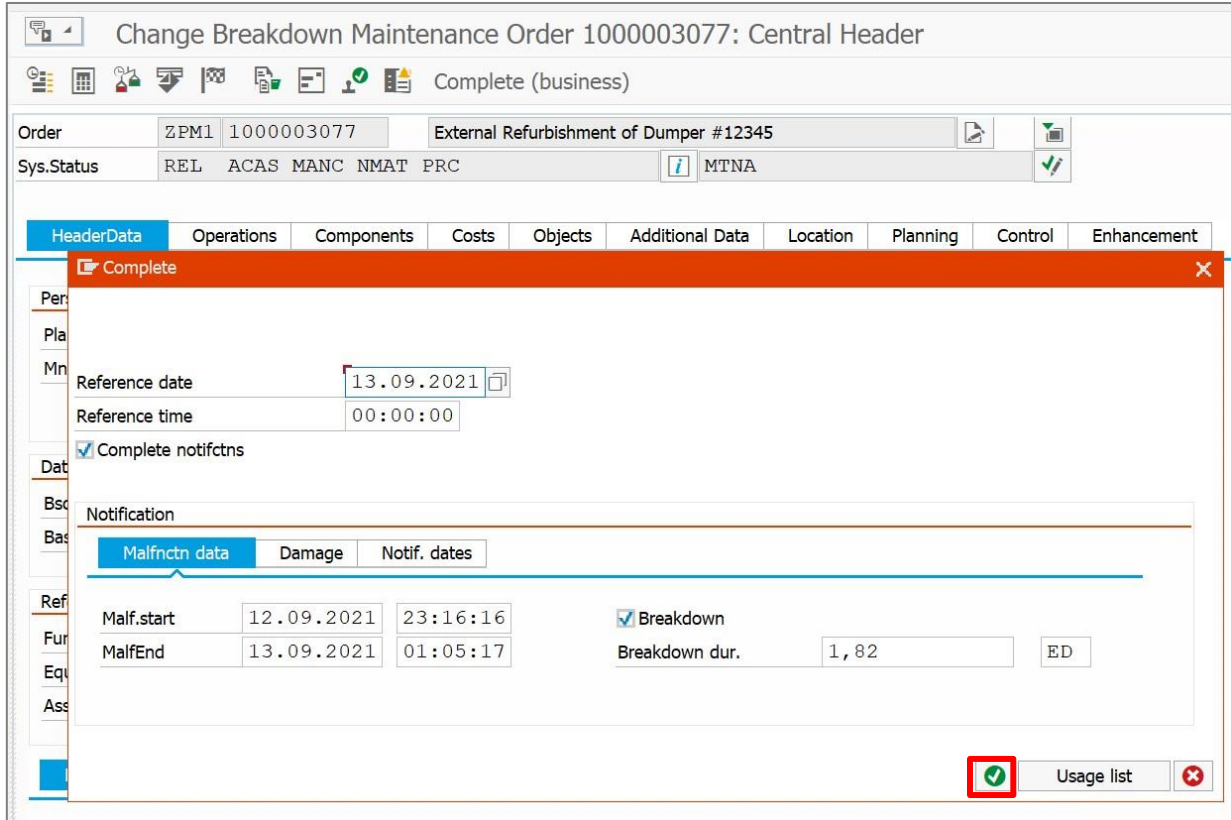
- IV. Click the finish flag (chequered) for TECO (Technically Completed).

Change Breakdown Maintenance Order 1000003077: Central Header			
<div>  Complete (business) </div>			
Order	ZPM1 1000003077	External Refurbishment of Dumper #12345	
Sys.Status	REL ACAS MANC NMAT PRC	MTNA	
<div>HeaderData    Operations    Components    Costs    Objects    Additional Data    Location    Planning    Control    Enhancement</div>			
Person responsible			
PlannerGrp	100 / 3020	Excv Incharge	Message 1000002117
Mn.wk.ctr	PM-WC38 / 3020	MECH MAINT SURFACE..	Costs 0,00 INR
<div>Dates</div>			
Bsc start	12.09.2021	Priority	
Basic fin.	12.09.2021	Revision	
Reference object			
Func. Loc.		DUMPER ENGINE	
Equipment	30030637		
Assembly			

A pop-up will appear. Check the details

V. Click ok/continue button.

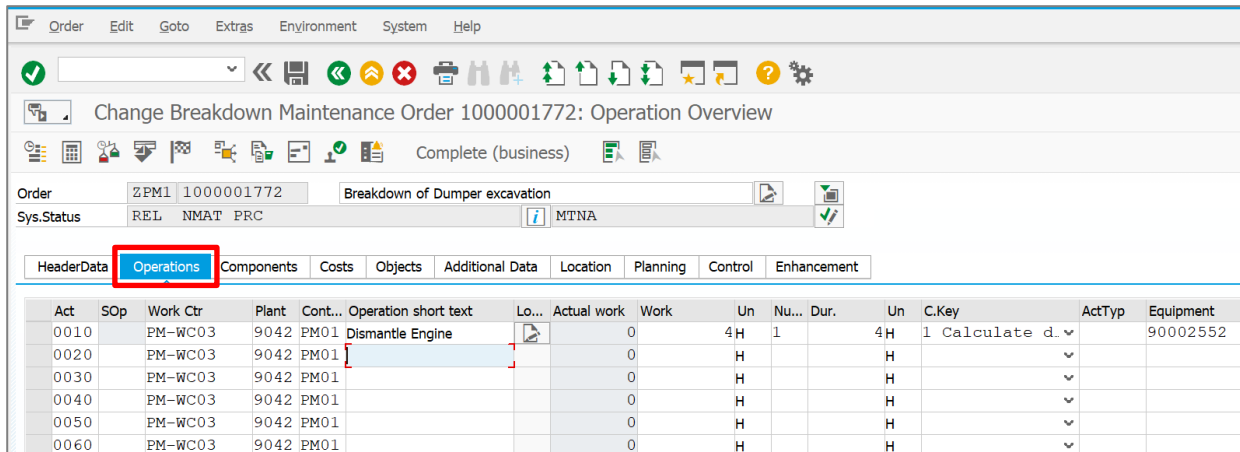
VI. Click the save button.



Order and Notification Closed Successfully.

## R-Format & ZPM\_IE4N Process

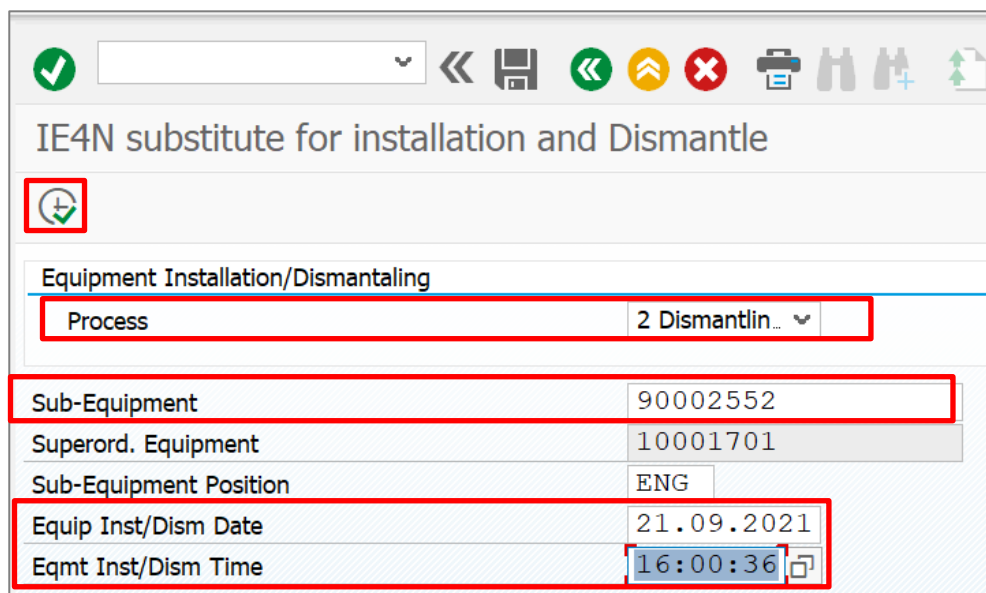
- VI. Execute transaction code **IW21** to create Breakdown Maintenance Notification of Equipment.
- VII. Execute transaction code **IW22** to create Maintenance Order With reference to Breakdown Notification.
- VIII. Click the **Operations** tab.



Act	SOp	Work Ctr	Plant	Cont...	Operation short text	Lo...	Actual work	Work	Un	Nu...	Dur.	Un	C.Key	ActTyp	Equipment
0010		PM-WC03	9042	PM01	Dismantle Engine		0		4H	1		4H	1 Calculate d.		90002552
0020		PM-WC03	9042	PM01			0		H			H			
0030		PM-WC03	9042	PM01			0		H			H			
0040		PM-WC03	9042	PM01			0		H			H			
0050		PM-WC03	9042	PM01			0		H			H			
0060		PM-WC03	9042	PM01			0		H			H			

- IX. Execute transaction code **ZPM\_IE4N** from SAP command field .
- X. Select the **Process** of dismantling from drop down option.
- XI. Enter **Sub Equipment** number which needs to be dismantled (It automatically fetches its Parent Equipment & Its Position in the Screen).
- XII. Enter the date and time of dismantling.
- XIII. Click on execute icon.

You will get a Screen Showing Details of Dismantled equipment and its Notification created automatically with type "ZD" (For Installation "ZI" Type Notification is created).



**IE4N substitute for installation and Dismantle**

**Equipment Installation/Dismantaling**

Process: 2 Dismantlin...

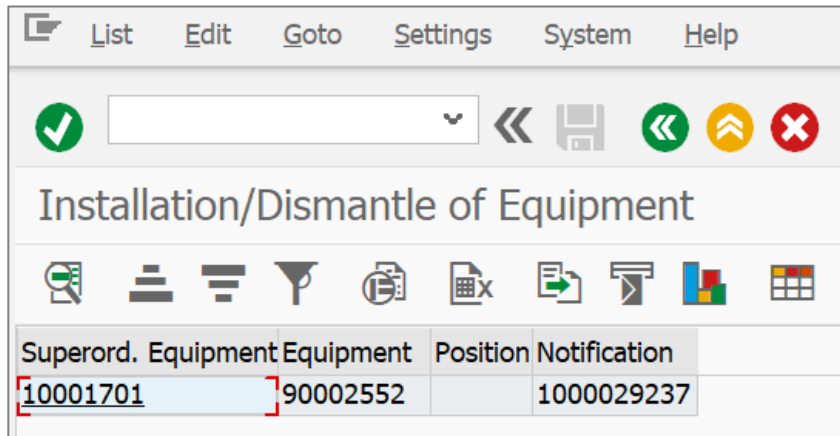
Sub-Equipment: 90002552

Superord. Equipment: 10001701

Sub-Equipment Position: ENG

Equip Inst/Dism Date: 21.09.2021

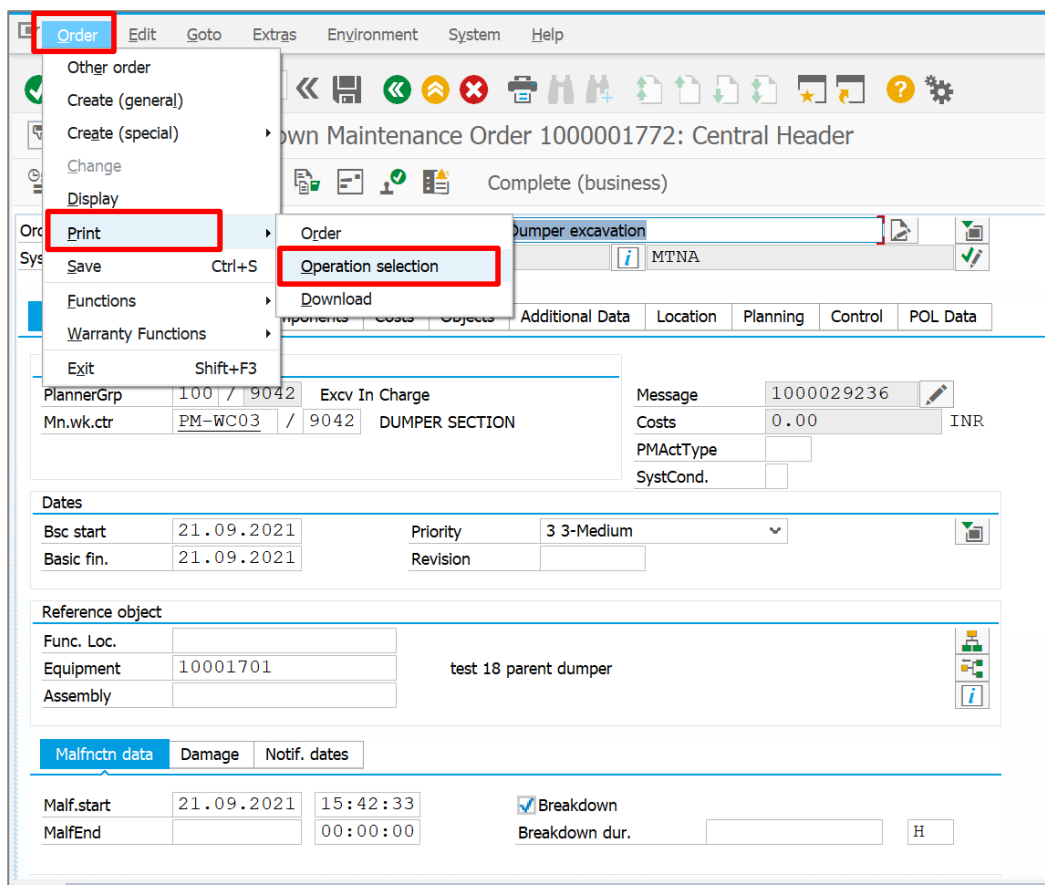
Eqmt Inst/Dism Time: 16:00:36



Installation/Dismantle of Equipment

Superord.	Equipment	Equipment	Position	Notification
10001701	90002552			1000029237

- XIV. Execute transaction code **IW32** from SAP command field.
- XV. Enter **Maint. Order** Number.
- XVI. Click **Order** menu from the top menu bar.
- XVII. Click **Print >> Operation Selection** option.



Order Maintenance Order 100001772: Central Header

Complete (business)

Dumper excavation

MTNA

Additional Data Location Planning Control POL Data

PlannerGrp 100 / 9042 Excv In Charge

Mn.wk.ctr PM-WC03 / 9042 DUMPER SECTION

Message 1000029236

Costs 0.00 INR

PMActType

SystCond.

Dates

Bsc start 21.09.2021 Priority 3 3-Medium

Basic fin. 21.09.2021 Revision

Reference object

Func. Loc.

Equipment 10001701 test 18 parent dumper

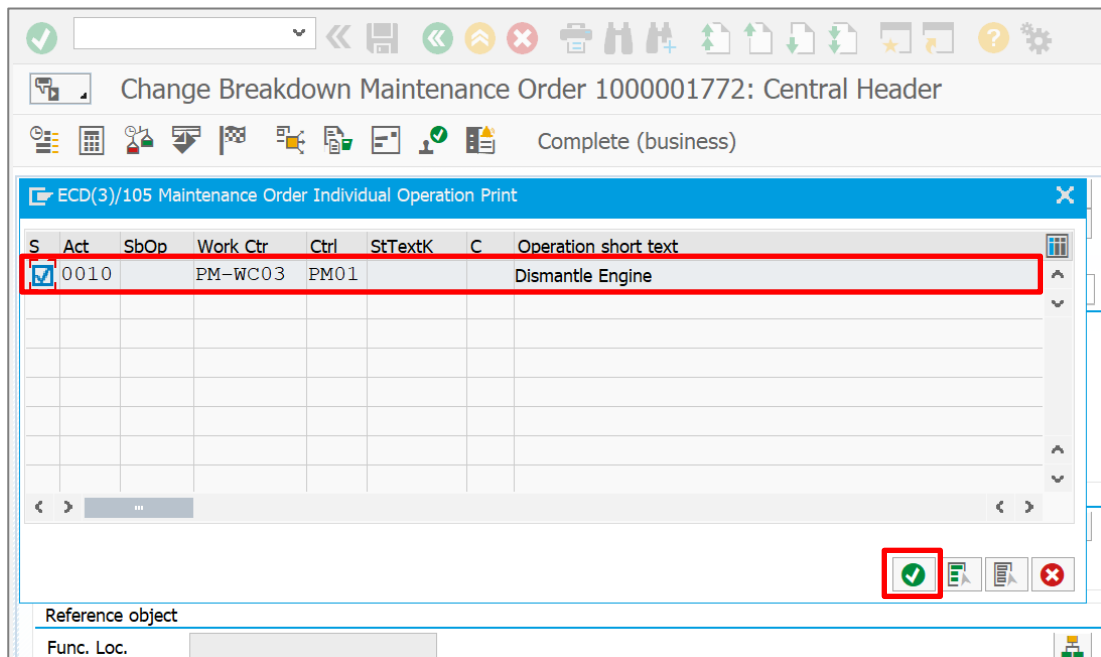
Assembly

Malfnctn data Damage Notif. dates

Malf.start 21.09.2021 15:42:33 Breakdown

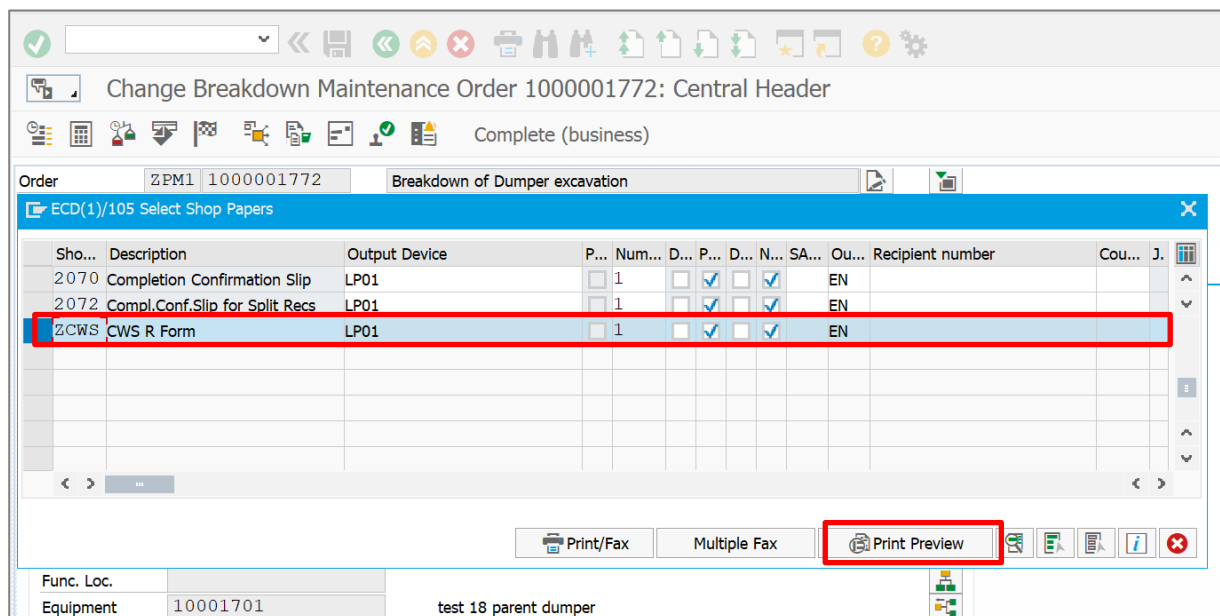
MalfEnd 00:00:00 Breakdown dur. H

- XVIII. Select the Operation Activity for which R-Format print is needed.
- XIX. Click OK/continue button.



S	Act	SbOp	Work Ctr	Ctrl	StTextK	C	Operation short text
0010	PM-WC03		PM01				Dismantle Engine

- XX. Select the Shop Paper “ZCWS” – CWS R Form from List of Shop Papers.  
XXI. Click on **Print Preview** button. You can now save the PDF or print directly.



Sho...	Description	Output Device	P...	Num...	D...	P...	D...	N...	SA...	Ou...	Recipient number	Cou...	J...
2070	Completion Confirmation Slip	LP01		1						EN			
2072	Compl.Conf.Slip for Split Recs	LP01		1						EN			
ZCWS	CWS R Form	LP01		1						EN			



## PM Notification Process

The Notification process consists of following major activities:

- A Notification is created or raised by the production department with priority to notify the maintenance planner regarding the issue or problem detected in the equipment or machine.
- The notification raised by the production department is received and reviewed by the maintenance planner. The maintenance planner then resets the priority and releases the notification to the maintenance department for necessary action.
- The maintenance engineer receives the notification, reviews it and then creates a maintenance order with reference to the notification (if any external source required to repair the equipment-e.g. Materials or external services)
- Once the maintenance engineer performs his work he technically closes the order. With this the notification is also closed automatically.
- Then this order sent to FI for cost settlement and business completion.

The following priorities are available for raising the notification.

PRIORITY	DESCRIPTION	COMMENTS
1	VERY HIGH	TO ATTEND IN ONE DAY
2	HIGH	THREE DAYS
3	MEDIUM	SEVEN DAYS
4	LOW	FOURTEEN DAYS

Depending on the nature of the job, the notification has been categorized into different types. The following notification types are available.

NOTIFICATION TYPE	DESCRIPTION	COMMENTS
E2(E&M)/ H2(Excv)	BREAKDOWN NOTIFICATION	A BREAKDOWN NOTIFICATION IS RAISED WHEN AN EQUIPMENT IS IN BREAKDOWN STATE.
Z1	MAINTENANCE-CWS/RWS	
Z2	PREVENTIVE MAINTENANCE	A PREVENTIVE MAINTENANCE NOTIFICATION IS RAISED FOR SCHEDULE MAINTENANCE OF AN EQUIPMENT
Z3	SURVEY OFF/GROUNDING	A SURVEYOFF/GROUNDING NOTIFICATION IS RAISED FOR SURVEYOFF-GROUNDING OF AN EQUIPMENT

Z4	All Department Maintenance	
Z5	Calibration Maintenance	
Z6	Condition Based	
ZD	Uninstall Sub Assembly	
ZI	Install Sub Assy	

## Create Notification

A defect or malfunction has occurred and you create a Breakdown Notification. You enter a brief description of defect, technical object (Functional Location / Equipment) on which defect has occurred.

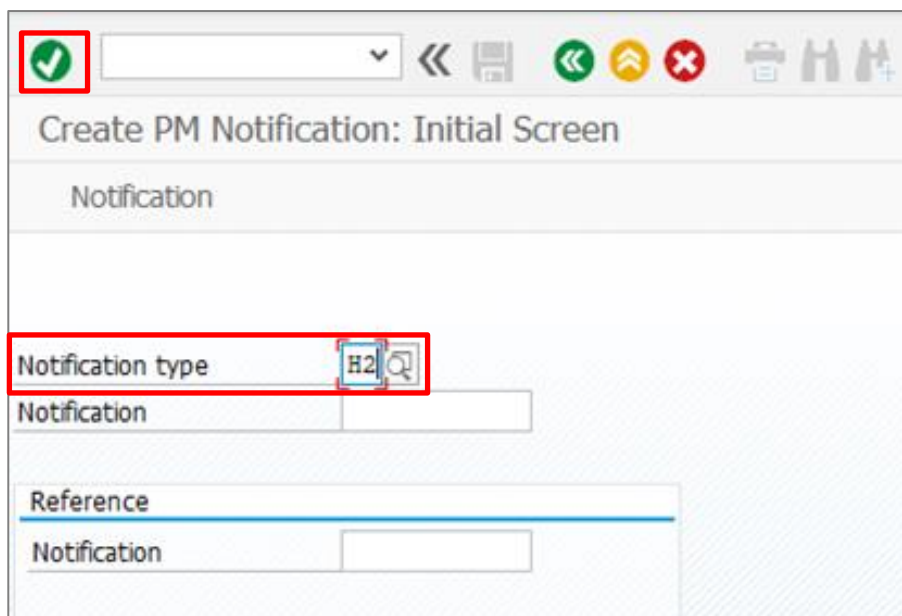
Access the transaction choosing one of the following navigation options:

<b>SAP menu</b>	Logistics → Plant maintenance → Maintenance processing → Notification → Create (General)
<b>Transaction code</b>	<b>IW21</b>

On the screen Create PM Notification: Initial Screen, make the following entries:

Field name	Description	R/O/C	User action and values	Comment
Notification type		R	E2/H2	Notification type E2/H2 is for Breakdown reporting. Select from dropdown list (F4 help for the field).

- I. Enter **Notification type** from the search list.
- II. Click ok/continue button.



- III. Enter the following entries as specified in the table below and depicted in the screen shots:

(**Note:** In the table, in column “R/O/C” ; “R” = Required, “O” = Optional, “C” = Conditional)

Field Name	Description	R/O/C	User Action and Values	Comments
Notification (short text)	Notification short text (or title of the PM notification)	R	Enter a short text.	Long text is available, if needed.
Funct Location	Functional Location number for which the notification refers	O	Enter a functional location number, if known or select from F4 help.	Can be determined from the equipment
Equipment	Equipment number for which the notification refers (reference object)	R	Enter an equipment number, if known or select from F4 help.	
Description	Long text description	O	Enter a long text for detail explanation of defect or entering comments.	It is also used for entering comments at any stage of notification processing by different persons. The person name and time is logged with each comment.
Planner Group	Group responsible for planning tasks	R	Enter department and maintenance plant.	Will be automatically determined from the reference object.
Main Work Ctr	Work center responsible for the completion of the maintenance tasks	R	Enter a work center and maintenance plant.	Will be automatically determined from the reference object.
Reported By	Person who reported request/problem	O		
Notif. Date	Date and time the request/problem was noted		NA	Defaults to current date and time.
Breakdown	Indicator for breakdown	R	Check the indicator if equipment is out of service.	Used for technical reporting.
Malfunction Start	Malfunction (out of service) Start date & time	C	Defaults to current date and time.	Is editable if reporting the BD at a later time.

Malfunction End	Malfunction (Out of service) end date & time		NA at this stage.	
Req Start	Date & time at which processing of the notification is to start.	O	Enter date and time as per your requirement.	Should be done by MTP at the time of Notification scheduling.
Priority	The key in this field indicates the Notification job priority	R	Select code from drop down list	
Req End Date	Date & time on which the processing of the notification is to be completed.	O	Enter date and time as per your requirement.	Should be done by MTP at the time of Notification scheduling.

IV. Enter short description of notification.

V. Enter **Equipment** number.

VI. Press Enter.

Create PM Notification: BD Report Excavation

Notification: 00000000001 H2

Notific. Status: OSNO

Order:

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue | Preventive Actions

Reference object

Functional loc.

Equipment: 10000060 DUMPER # NBJ00481

Assembly

Subject

Coding

Description

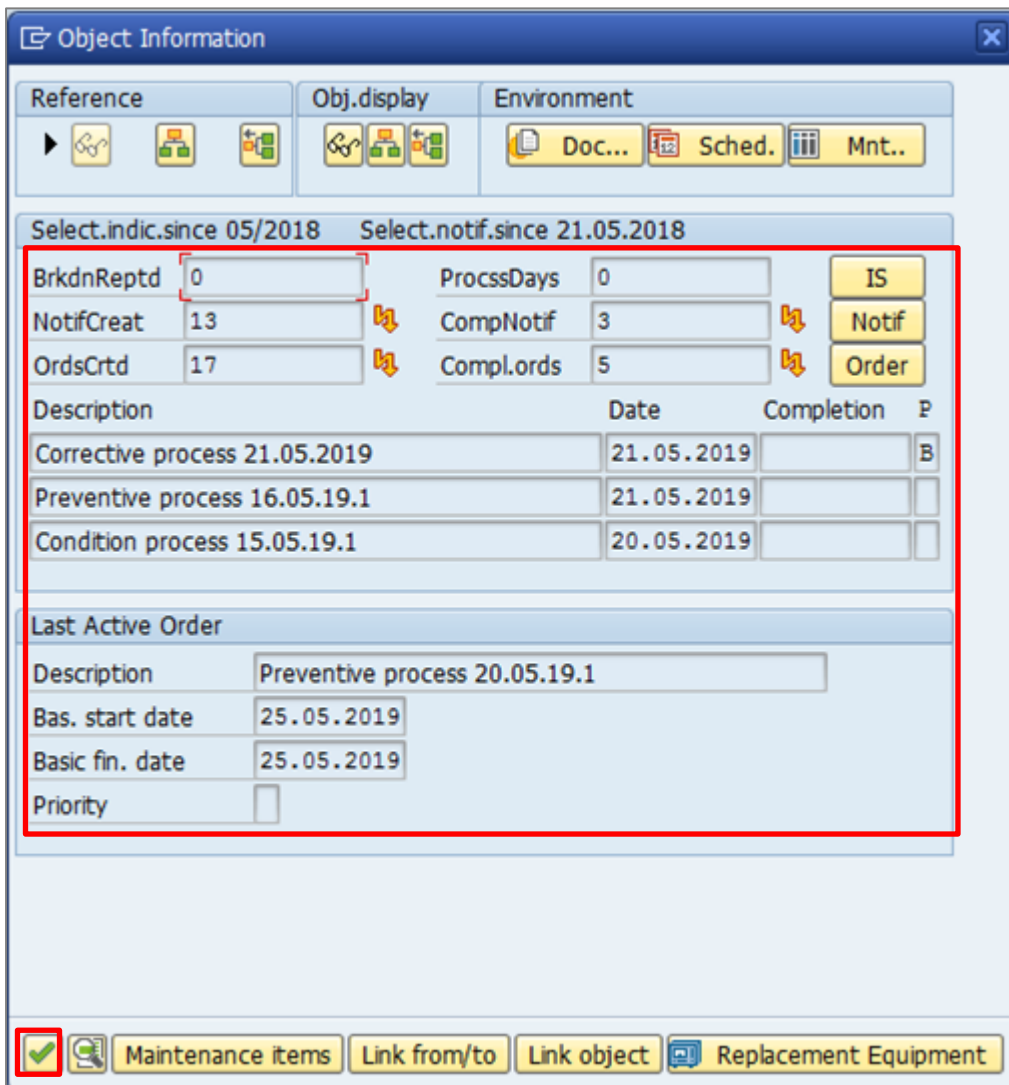
Start/End Dates

Required Start: 21.05.2019 16:15:09 Priority: High

Required End: 24.05.2019 16:15:09 ☒ Breakdown

A pop-up window will be displayed containing information about number of notifications created and completed. It also provides information regarding number of orders created and completed for that equipment. An object information pop up screen will appear, containing information malfunction date and time and work center data will copied from equipment master.

VII. Click  icon.




The screenshot shows the 'Object Information' window. A red box highlights the 'IS', 'Notif', and 'Order' buttons, the 'Last Active Order' section, and the green checkmark icon in the bottom toolbar.

Select.indic.since 05/2018		Select.notif.since 21.05.2018	
BrkdnReptd	0	ProcssDays	0
NotifCreat	13	CompNotif	3
OrdsCrted	17	Compl.ords	5

Description	Date	Completion	P
Corrective process 21.05.2019	21.05.2019		B
Preventive process 16.05.19.1	21.05.2019		
Condition process 15.05.19.1	20.05.2019		

**Last Active Order**

Description	Preventive process 20.05.19.1
Bas. start date	25.05.2019
Basic fin. date	25.05.2019
Priority	

Bottom toolbar:  Maintenance items Link from/to Link object Replacement Equipment

The exact functional location and equipment will appear in the Reference Object fields of Notification header.

VIII. Enter **Description**.

IX. Press Enter.

Create PM Notification: BD Report for E&M

Notification: %000000000001 E2

Notific. Status: OSNO

Order:

Reported Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue | Preventive Action

Reference object

Functional loc.:

Equipment: 40000024 CRANE # 189794

Assembly:

Subject

Coding:

Description:

Responsibilities

Planner group: 100 / 5105 Excv In Charge

Main WorkCtr: PM-WC06 / 5105 AUXILLARY SECTION

Reported by: Notif.date: 19.08.2021 12:23:40

A message is logged with the Date and time of log and the User name who logged the message.

- X. Select appropriate **Priority** from the drop-down menu.
- XI. Check the **Breakdown** indicator if Equipment is out of service.
- XII. Press Enter.

Start/End Dates

Required Start: 19.08.2021 12:23:40

Required End: 00:00:00

Revision: 5105

Priority: ☐ Breakdown


Item

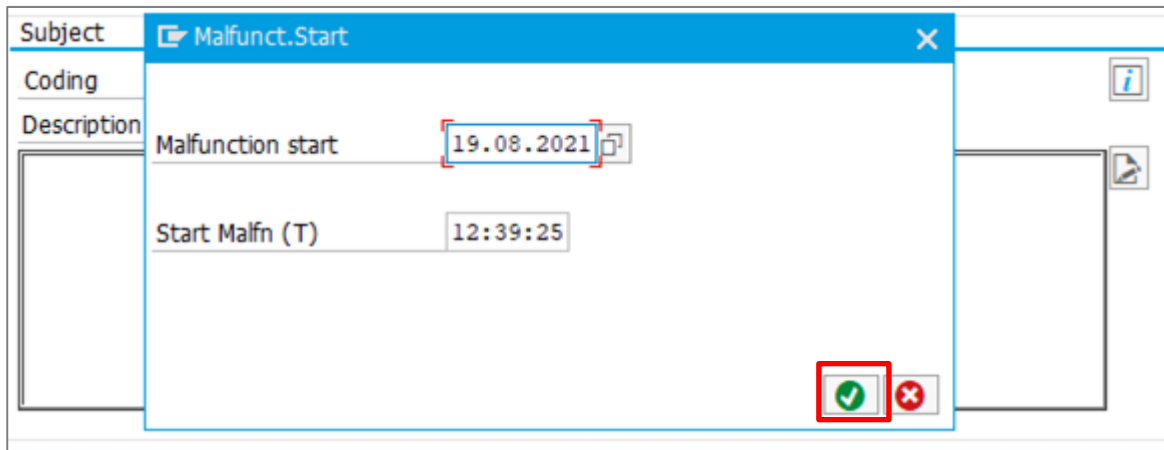
Object part:

Text:

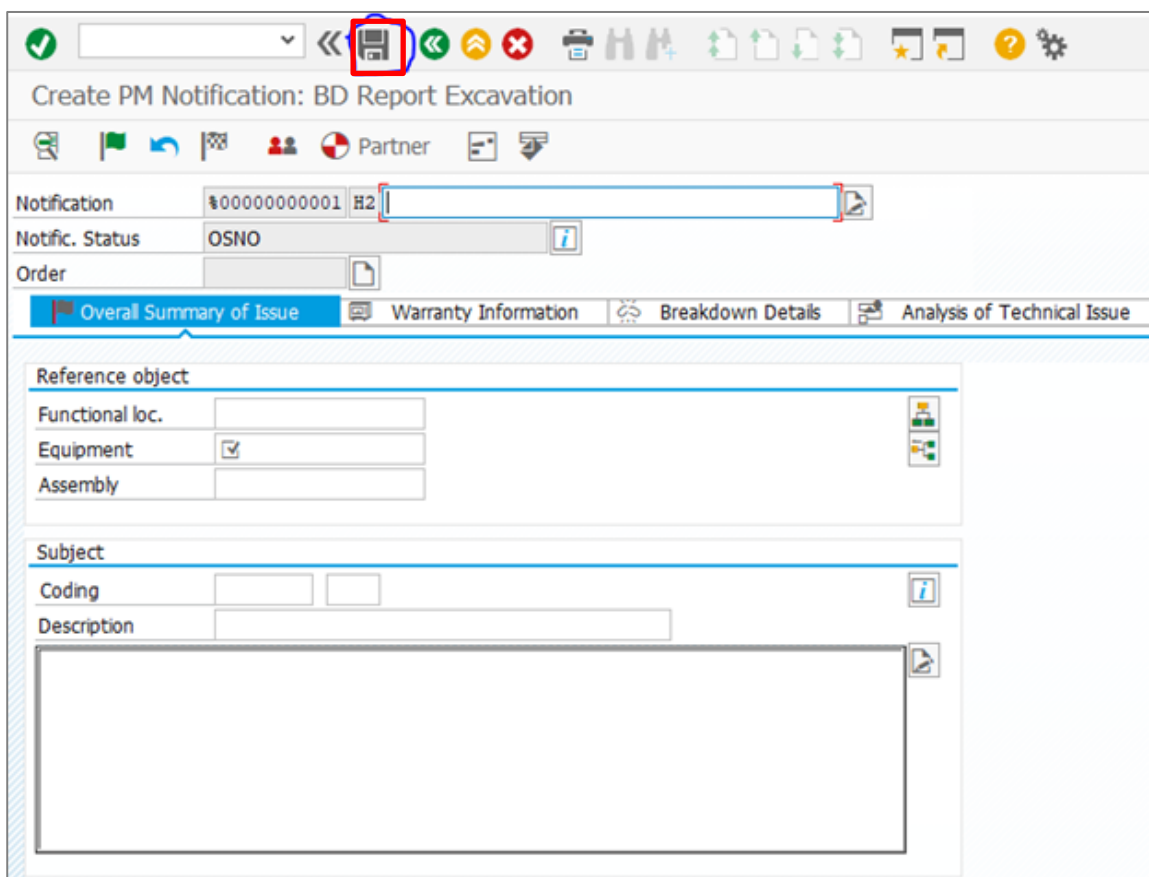
Cause:

Cause text:

- XIII. Click **Yes** to specify dates (Required Start and End dates) as per the priority definition, Since Breakdown indicator was selected, system will ask to confirm the Malfunction start date and time (defaulted as current date/time).
- XIV. Click  to accept.



- XV. Click the save button in the standard toolbar to save the notification.



The notification will be saved with a message in the message bar at bottom stating the notification number.

 Notification 1000001231 saved



## **Scheduling Of Notification By Maintenance Planner**

Maintenance Planner will schedule the dates for A, B,C & D priority for any notification type to prevent the notification clashing with the oncoming preventive schedule of the defective equipment if any in the nearest future.


In other words, if any preventive maintenance of same equipment/ system is falling due within the priority period for breakdown job completion, then Maintenance Planner can reschedule the PM or plan the breakdown maintenance along with PM by changing the required start & end dates of breakdown notification, to reduce over-all downtime of equipment/ system.

### **Step-by-step Process**

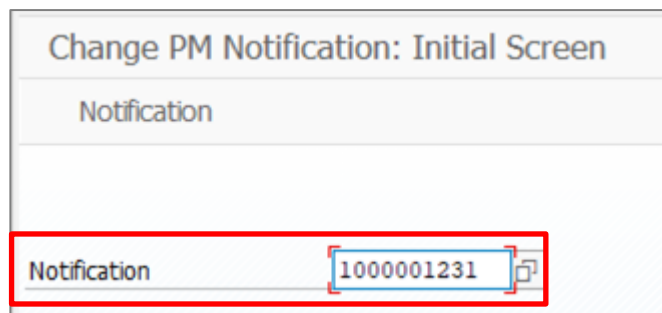
Access the transaction choosing one of the following navigation options:

<b>SAP menu</b>	Logistics → Plant maintenance → Maintenance processing → Notification → Change
<b>Transaction code</b>	IW22

On the screen Change PM Notification: Initial Screen, make the following entries:

Field Name	Description	R/O/C	User Action and Values	Comments
Notification	Number of the notification to be changed / updated	R	Enter the notification number	
			Press ENTER key	Alternately, click on the green check mark icon  or press the Notification button.

- I. Enter Notification number.
- II. Press Enter.



- III. Edit the **Required Start** and **Required End** dates as per requirement of job scheduling maintenance planner.

**Change PM Notification: BD Report Excavation**

Responsibilities

Planner group	100 / 5104	Excv In Charge
Main WorkCtr	PM-WC03 / 5104	DUMPER SECTION
Excavation Dept		
Project Engine		
Reported by		Notif.date 19.08.2021 13:00:05

Start/End Dates

Required Start	19.08.2021 13:00:05	Priority	
Required End	00:00:00	<input checked="" type="checkbox"/> Breakdown	
Revision	5104		

Item

Object part


Text

Cause

Cause text

- IV. Click the release icon (green flag) to release the notification.

**Create PM Notification: BD Report Excavation**

Notification  

Notific. Status OSNO

Order

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue | Preventive Actions

Reference object

Functional loc.

Equipment ☒

Assembly

Subject

Coding

Description

The Notification status changes to NOPR (Notification in process).

Change PM Notification: BD Report Excavation

Notification: 1000001231 H2

Notific. Status: **NOPR**

Order:

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue

Reference object

Functional loc.

Equipment: 10000060 DUMPER # NB300481

Assembly:

Subject

Coding:

Description:

V. Click the save button.

Change PM Notification: BD Report Excavation

Notification: 1000001231 H2

Notific. Status: NOPR

Order:

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue

Reference object

Functional loc.

Equipment: 10000060 DUMPER # NB300481

Assembly:

Subject

Coding:

Description:

The notification will be saved.


✓ Notification 1000001231 saved

## List view of Notification

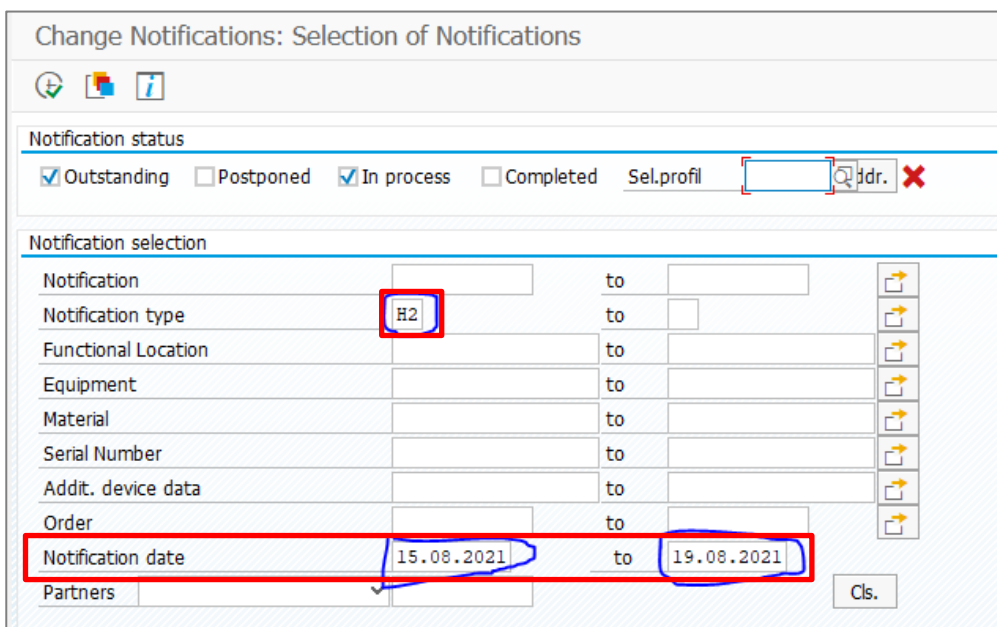
To view the list of created notification within a particular date follow the path given below.

<b>SAP menu</b>	Logistics → Plant maintenance → Maintenance processing → Notification → List Editing → Change
<b>Transaction code</b>	IW28

On the screen Change PM Notification: Initial screen. Make the following entries:

Field Name	Description	R/O/C	User Action and Values	Comments
Notification type	Notification type to be entered	R	Enter the notification type	
			Press ENTER key	Alternately, click on the green check mark icon  or press the Notification button.
Notification date	Notification date to and date from	R	Enter Date	Date of creation of Notification from and to is provided to pull the notification created, processed and completed within the date frame provided

- I. Enter **Notification type**.
- II. Enter **Notification date**.
- III. Click the execute icon. It will display a list of notifications.



IV. Double click the required notification number.

Change Notifications: List of Notifications

S	Notification	Notif. date	Description	SysStatus	Equipment	Breakdown duration	Malfunc. end	Malfunc. start	Malfunc. End	MalSrt	Mn. wk. ctr	Typ Pht	Functional Location	Order
1000001226	15.08.2021	HYDRULIC OIL LEAKA	NOPR ORAS	10000014	0.00	15.08.2021	00:00:00	12:40:00	PM-WC03	H2 5104	MCL-LXP-O-5104-WSP	1000001720		
1000001227	15.08.2021	steering problem	NOPR ORAS	40000069	0.00	15.08.2021	00:00:00	13:51:22	PM-WC28	H2 5104		1000001721		
1000001228	15.08.2021	Breakdown of laythe	NOPR ORAS	30000033	0.00	15.08.2021	00:00:00	19:32:12	PM-WCERS	H2 9004		1000001722		
1000001231	19.08.2021		NOPR	10000060	0.00	19.08.2021	00:00:00	13:00:05	PM-WC03	H2 5104				

A notification will be displayed.

**Change PM Notification: BD Report Excavation**

Notification: 1000001231 H2 **Dumper Brakedown**

Notific. Status: NOPR

Order:

**Overall Summary of Issue** | Warranty Information | Breakdown Details | Analysis of Techn

**Reference object**

Functional loc. :

Equipment: 10000060 **DUMPER # NBJ00481**

Assembly:

**Subject**

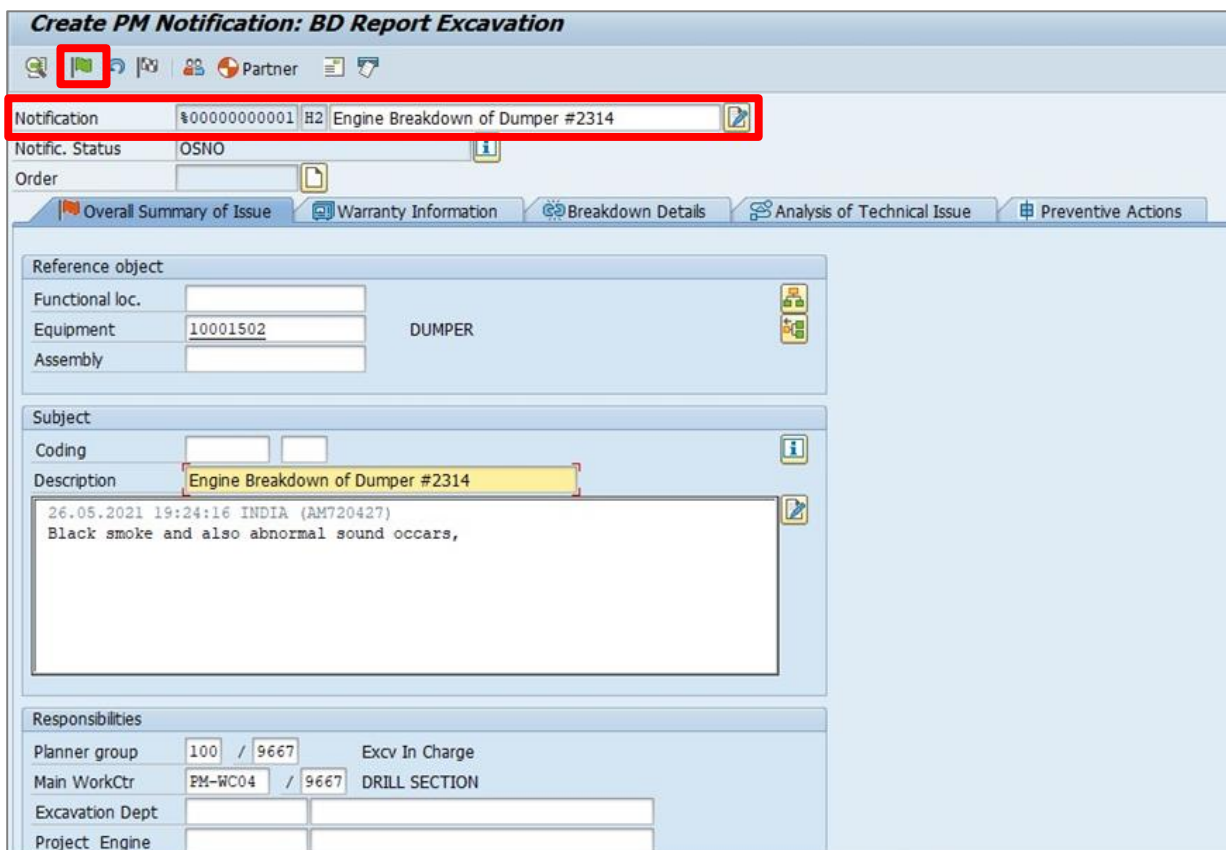
Coding:

Description:

## Breakdown Notification with Maintenance Order

### Make Breakdown Maintenance Notification (H2)

- I. Execute transaction code **IW22**
- II. In **Notification** description field, enter Cause of Failure.
- III. Click the release button (green flag).
- IV. Click the save button.



**Create PM Notification: BD Report Excavation**

Notification %00000000001 #2 Engine Breakdown of Dumper #2314

Notific. Status OSNO

Order

Overall Summary of Issue Warranty Information Breakdown Details Analysis of Technical Issue Preventive Actions

Reference object

Functional loc.

Equipment 10001502 DUMPER

Assembly

Subject

Coding

Description Engine Breakdown of Dumper #2314

26.05.2021 19:24:16 INDIA (AM720427)  
Black smoke and also abnormal sound occurs,

Responsibilities

Planner group 100 / 9667 Excv In Charge

Main WorkCtr PM-WC04 / 9667 DRILL SECTION

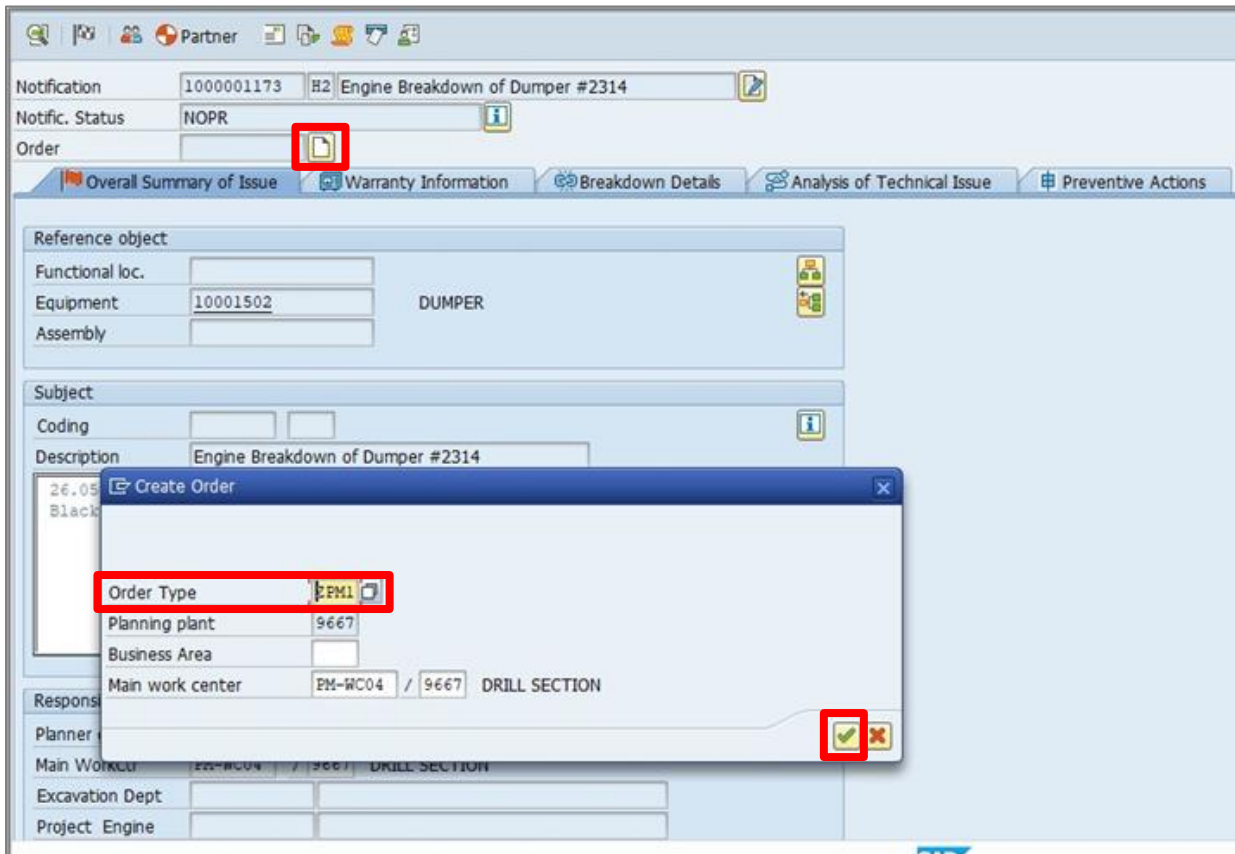
Excavation Dept

Project Engine

### Create Order against Notification

- I. Execute transaction code **ZPM1** from SAP command field.
- II. Click create new button.
- III. Enter **Order Type** as ZPM1.
- IV. Click ok/continue button.





Notification: 1000001173 H2 Engine Breakdown of Dumper #2314

Notific. Status: NOPR

Order: [Icon]

Overall Summary of Issue | Warranty Information | Breakdown Details | Analysis of Technical Issue | Preventive Actions

Reference object

Functional loc.: [Field]

Equipment: 10001502 DUMPER

Assembly: [Field]

Subject

Coding: [Field]

Description: Engine Breakdown of Dumper #2314

26.05 Black

Create Order

Order Type: PM1 [Icon]

Planning plant: 9667

Business Area: [Field]

Main work center: PM-WC04 / 9667 DRILL SECTION

Response: [Field]

Planner: [Field]

Main Work Center: PM-WC04 / 9667 DRILL SECTION

Excavation Dept: [Field]

Project Engine: [Field]

- V. Click the **Operations** tab.
- VI. On item level, enter:
  - Operation Short Text
  - Work
  - Durations for Maintenance

**Create Breakdown Maintenance Order : Operation Overview**

Order: ZPM1 100000000001 Engine Breakdown of Dumper #2314

Sys.Status: CRD ACAS MANC NTUP

HeaderData: **Operations** | Components | Costs | Objects | Additional Data | Location | Planning | Control | Enhancement

Act	SOP	Work Ctr	Plant	Co...	StTextK	Operation short text	L...	Actual work	Work	Un	N...	Dur.	Un	C.Key	ActTyp	Recipient	Unlo
0010	PM-WC04	9667	PM01			engine dismantling		0.0	23.0 HR	2		11.5 HR	1	Calculate	100008		
0020	PM-WC04	9667	PM01					0.0	HR			HR					
0030	PM-WC04	9667	PM01					0.0	HR			HR					
0040	PM-WC04	9667	PM01					0.0	HR			HR					
0050	PM-WC04	9667	PM01					0.0	HR			HR					
0060	PM-WC04	9667	PM01					0.0	HR			HR					
0070	PM-WC04	9667	PM01					0.0	HR			HR					
0080	PM-WC04	9667	PM01					0.0	HR			HR					
0090	PM-WC04	9667	PM01					0.0	HR			HR					
0100	PM-WC04	9667	PM01					0.0	HR			HR					
0110	PM-WC04	9667	PM01					0.0	HR			HR					
0120	PM-WC04	9667	PM01					0.0	HR			HR					
0130	PM-WC04	9667	PM01					0.0	HR			HR					
0140	PM-WC04	9667	PM01					0.0	HR			HR					

General | Internal | External | Dates | Act. Data | Enhancement | Ex. Factor | Catalog | Acct Asgnt

Calculation executed

SAP

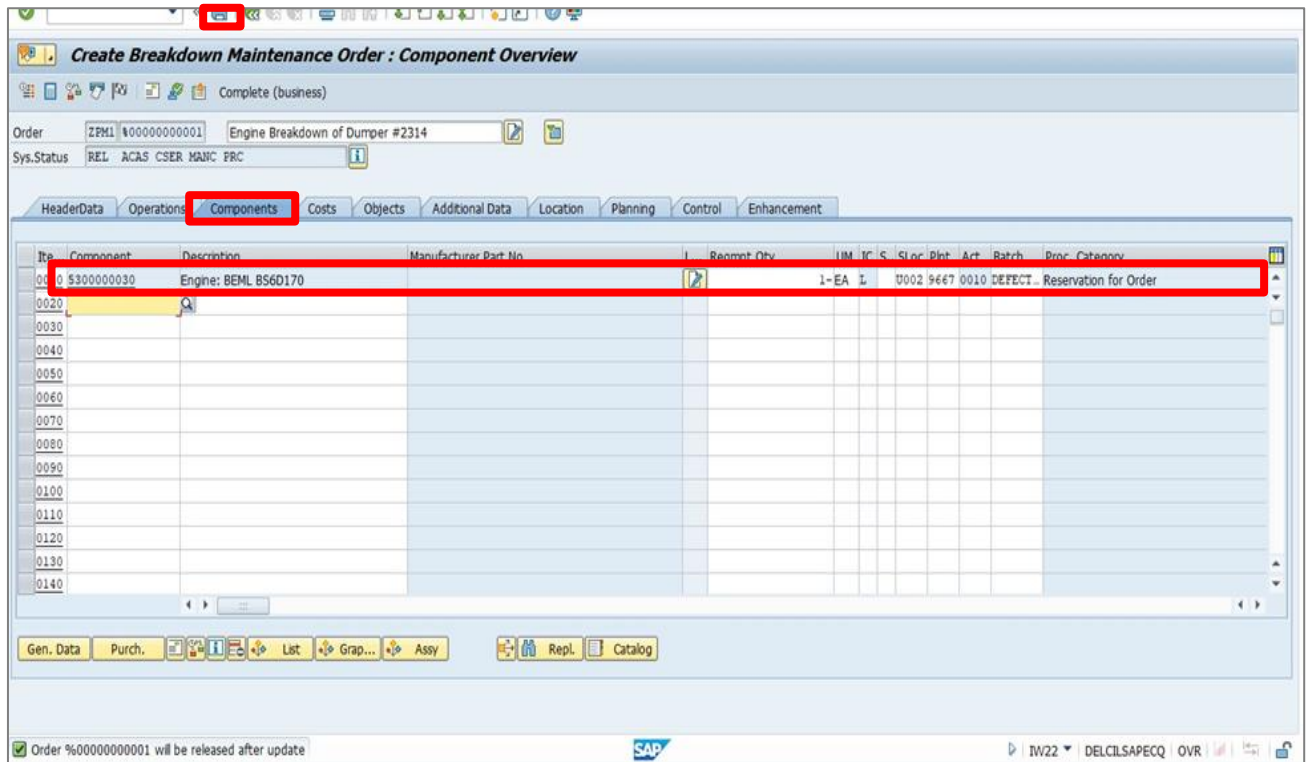
IV22 | DELCISAPEQ | OVR



VII. Click the **Components** tab.

VIII. Enter the following details:

- Required material number
- Quantity
- Item Category(L/N)
- Storage Location
- Batch



**Create Breakdown Maintenance Order : Component Overview**

Order: ZPM1 %000000000001 Engine Breakdown of Dumper #2314

Sys.Status: REL ACAS CSER MANC PRC

HeaderData Operations **Components** Costs Objects Additional Data Location Planning Control Enhancement

Ita	Component	Description	Manufacturer Part No	Recomet Qty	UM	IC	S	Stor	Dpt	Act	Batch	Proc. Category
0000	53000000030	Engine: BEML 856D170			1-EA			U002	9667	0010	DETECT	Reservation for Order
0020												
0030												
0040												
0050												
0060												
0070												
0080												
0090												
0100												
0110												
0120												
0130												
0140												

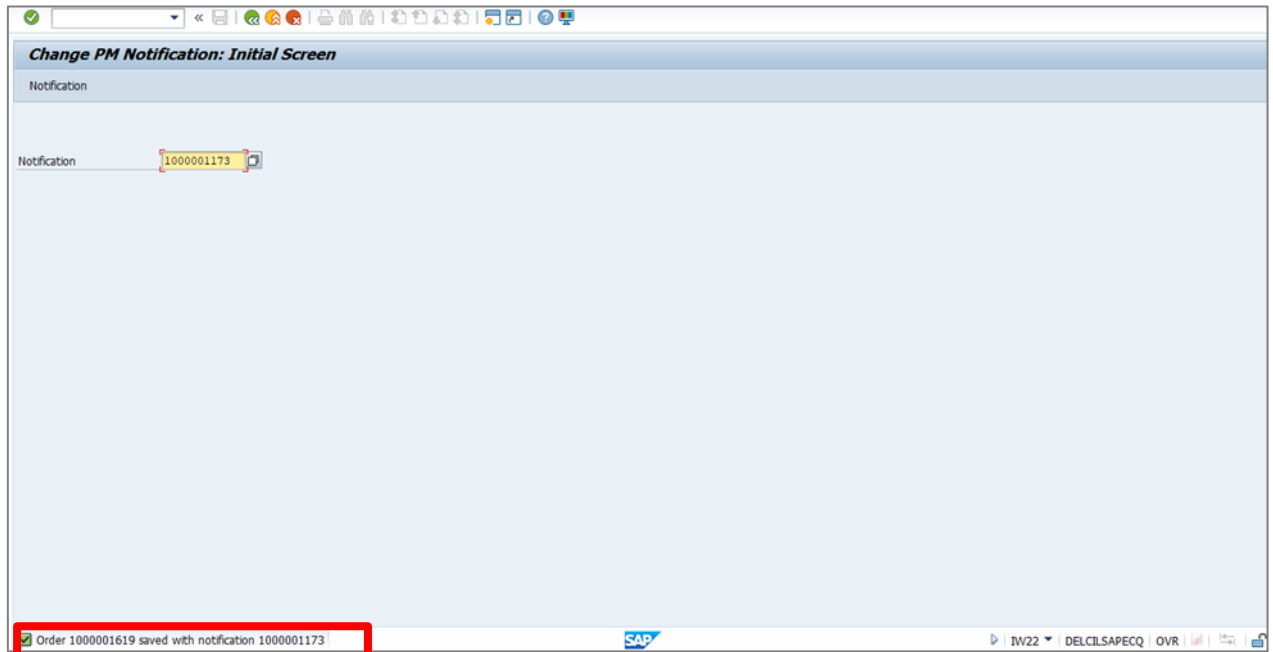
Gen. Data Purch. List Grap... Assy Repl. Catalog

Order %000000000001 will be released after update

SAP

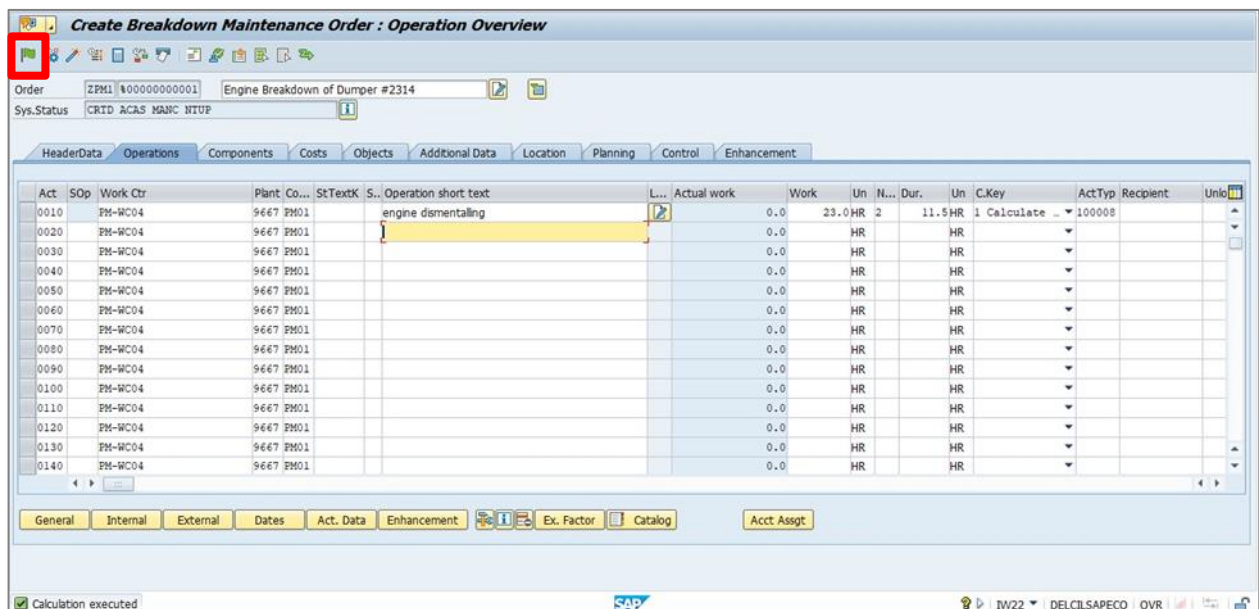
IV22 DELCILSAPECQ OVR

IX. Click the **SAVE** button. Order number is displayed at the bottom.



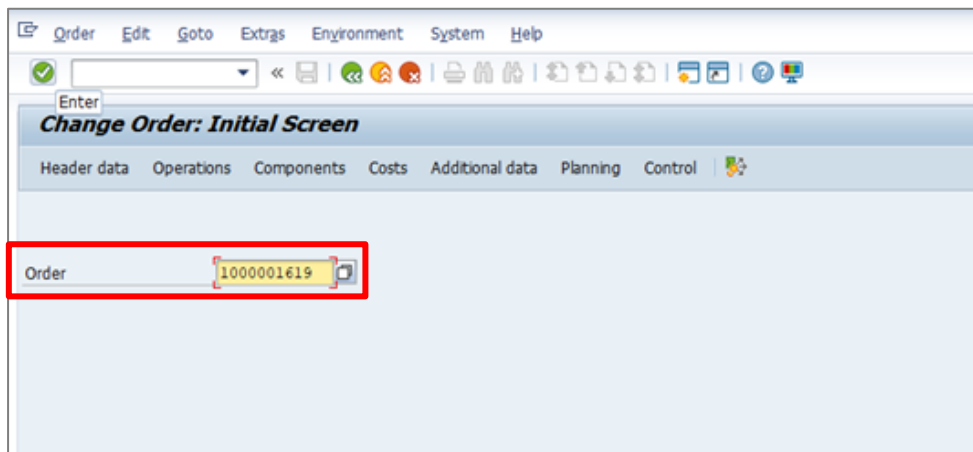
## Release the Order

- I. Execute transaction code **IW32** from SAP command field.
- II. Click the release button (green flag) to release the order and Save.



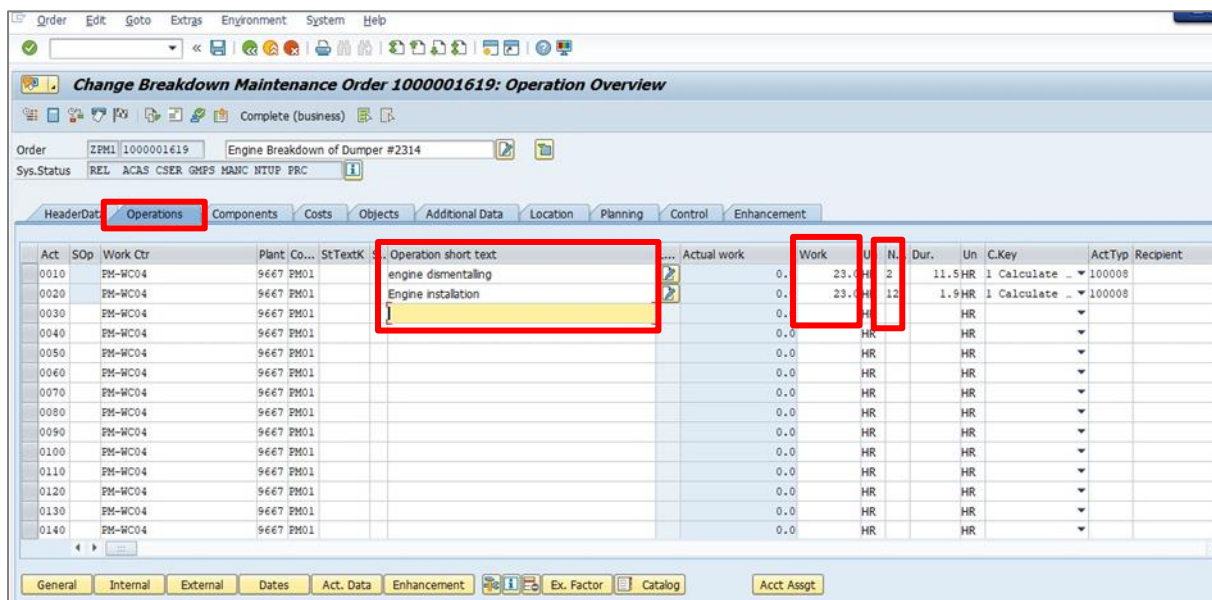
## Open Maintenance Order

- I. Execute transaction code **IW32** from SAP command field.
- II. Enter **Order** number.
- III. Press enter.



The screenshot shows the 'Change Order: Initial Screen' in SAP. The 'Order' field is highlighted with a red box and contains the value '1000001619'. The screen has tabs for Header data, Operations, Components, Costs, Additional data, Planning, and Control.

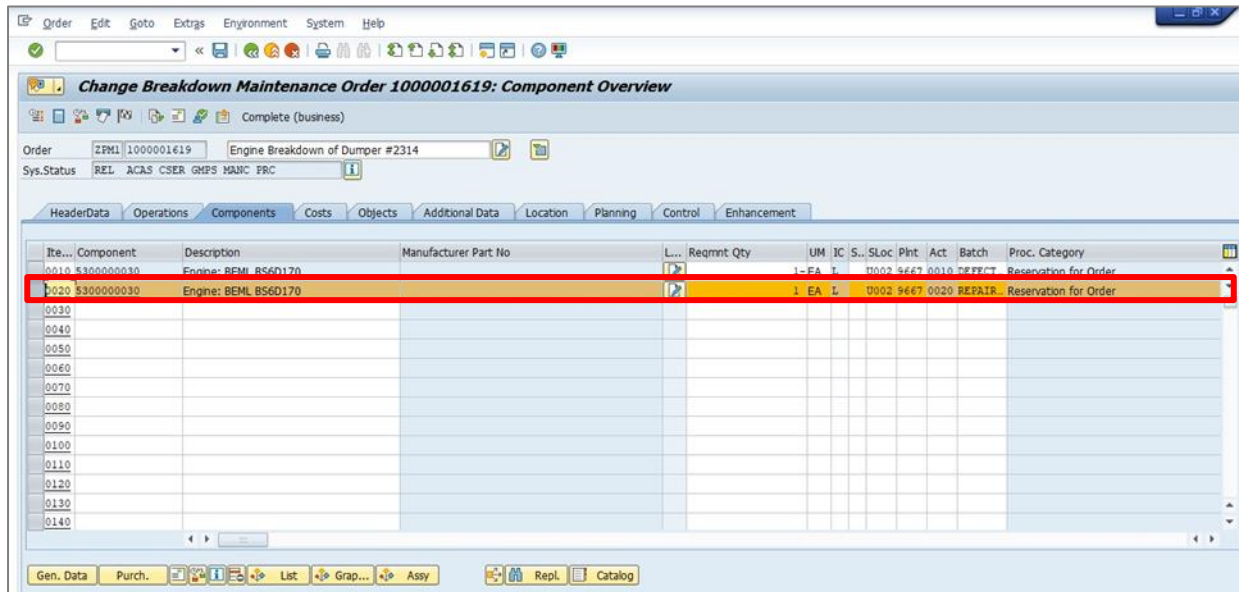
- IV. Click **Operations** tab.
- V. Enter operation description which you going to do
- VI. Enter time in **Work** column.
- VII. Enter **Number of Persons** worked.



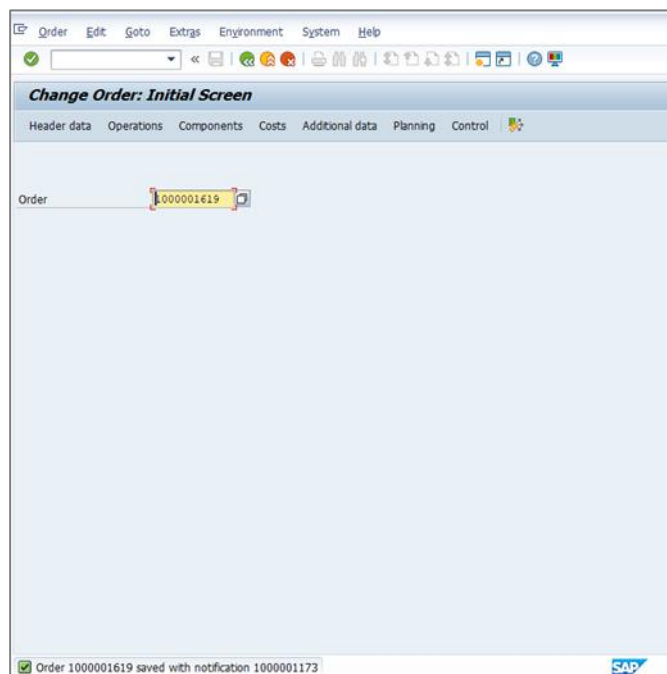
The screenshot shows the 'Change Breakdown Maintenance Order 1000001619: Operation Overview' in SAP. The 'Operations' tab is selected. A table lists operations with columns: Act, SOp, Work Ctr, Plant, Co., StTextK, Operation short text, Actual work, Work, N., Dur., Un, C.Key, ActTyp, and Recipient. Red boxes highlight the 'Work' and 'N.' columns. The table contains two rows of data:

Act	SOp	Work Ctr	Plant	Co.	StTextK	Operation short text	Actual work	Work	N.	Dur.	Un	C.Key	ActTyp	Recipient
0010	PM-WC04		9667	PM01		engine dsmentaling	0.	23.0	2	11.5HR		1 Calculate	100008	
0020	PM-WC04		9667	PM01		Engine installation	0.	23.0	12	1.9HR		1 Calculate	100008	

- VIII. On item level, add quantity.
- IX. Enter item category as 'L'.
- X. Enter Plant code and Storage Location.



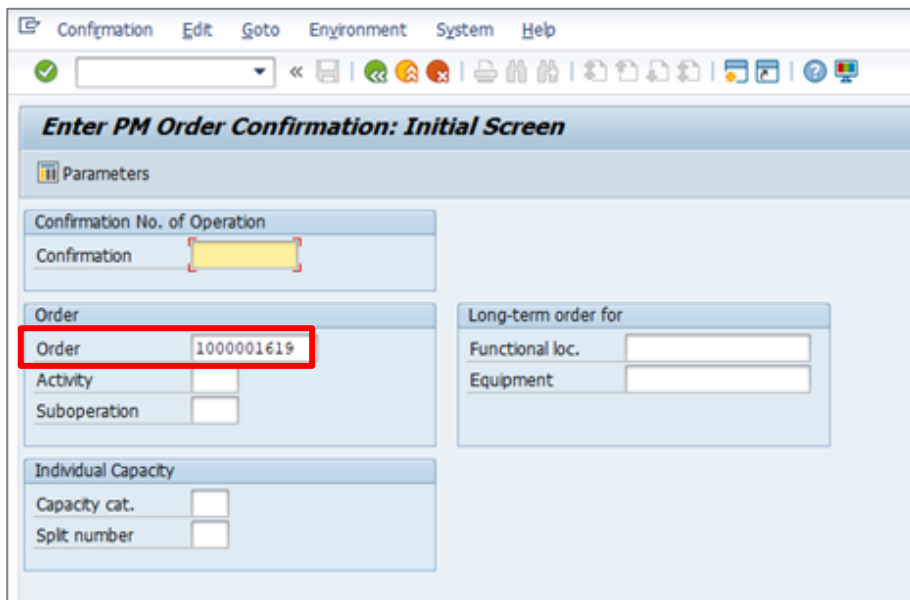
Click the save button. The Order is saved.



After all the operation completed we need to do Time Confirmation.

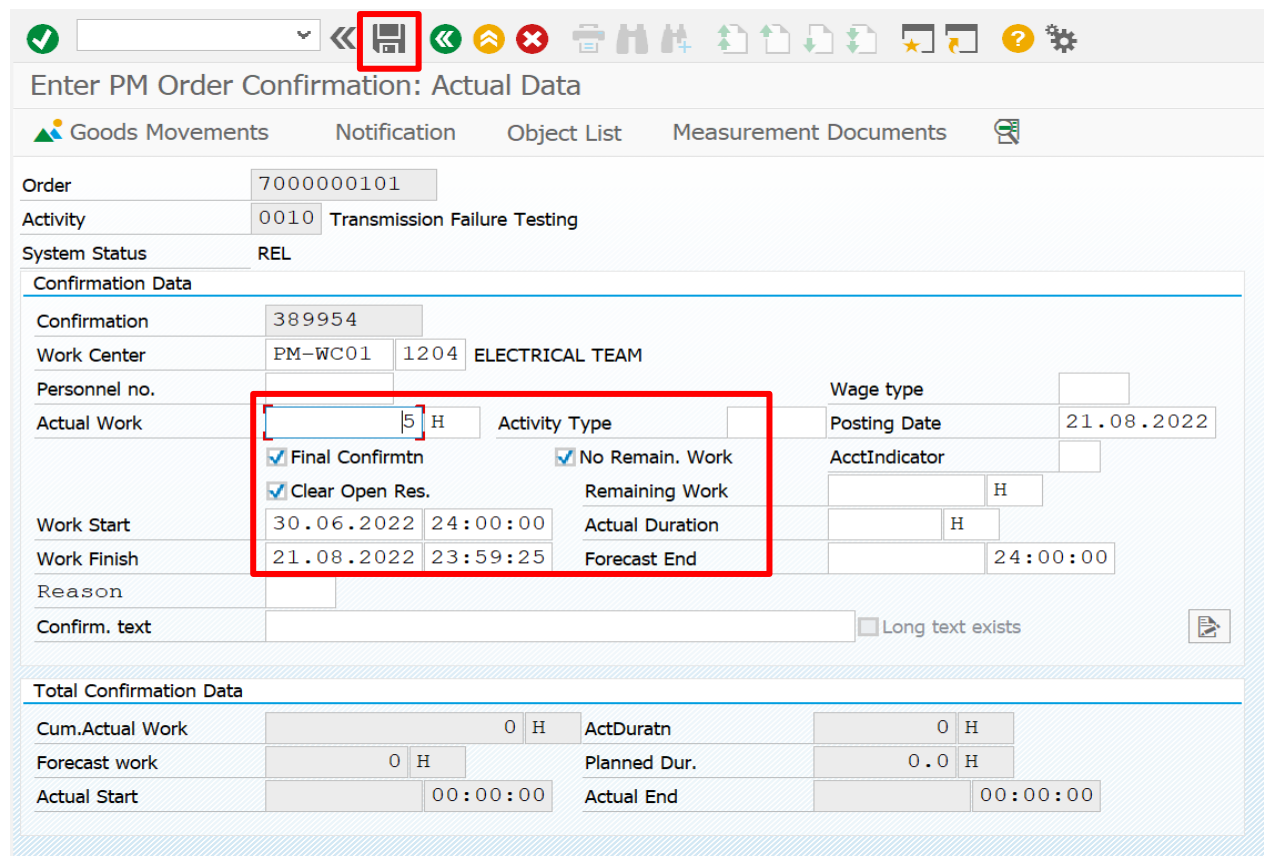
## Time Confirmation and TECO order

- I. Execute transaction code **IW41** from SAP command field.
- II. Enter **Order** number.
- III. Press enter.

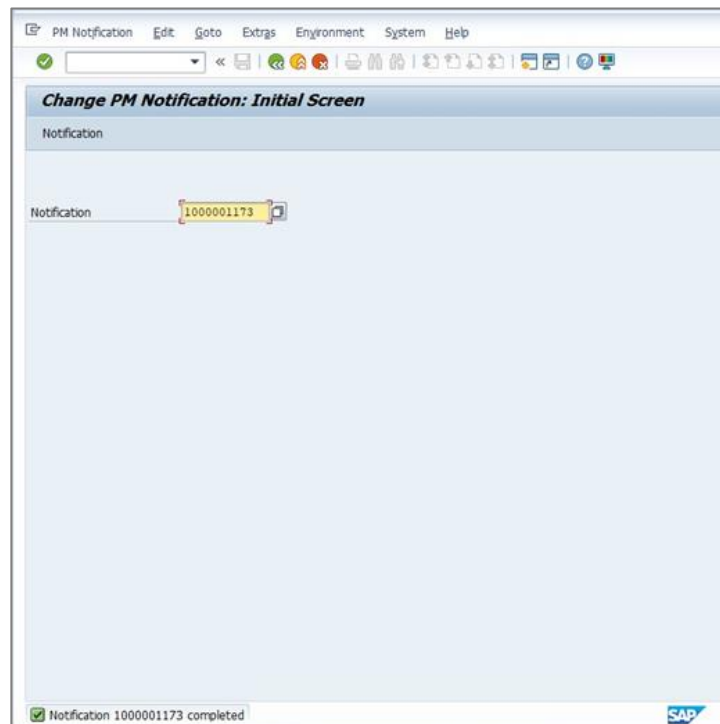


The screenshot shows the 'Enter PM Order Confirmation: Initial Screen' in SAP. The 'Order' field is highlighted with a red box and contains the value '1000001619'. Other fields include 'Confirmation No. of Operation', 'Long-term order for', 'Functional loc.', 'Equipment', 'Individual Capacity', 'Capacity cat.', and 'Split number'.

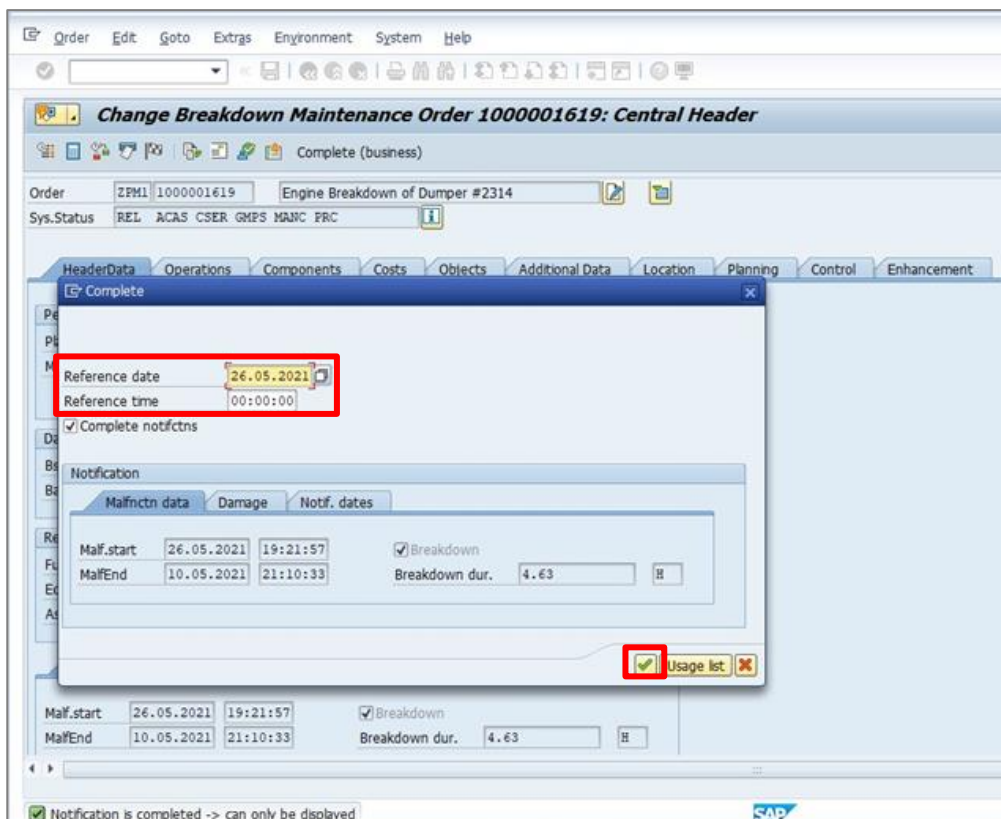
Enter Actual Work Duration and click on Clear open Res and **Save**.



The screenshot shows the 'Enter PM Order Confirmation: Actual Data' screen in SAP. The 'Actual Work' field is highlighted with a red box and contains the value '5'. The 'Activity' field is '0010 Transmission Failure Testing'. The 'System Status' is 'REL'. The 'Confirmation Data' section includes fields for 'Confirmation', 'Work Center', 'Personnel no.', 'Wage type', 'Posting Date', 'AcctIndicator', 'Work Start', 'Work Finish', 'Reason', and 'Confirm. text'. The 'Total Confirmation Data' section includes fields for 'Cum. Actual Work', 'Forecast work', 'Actual Start', 'ActDuratn', 'Planned Dur.', and 'Actual End'.

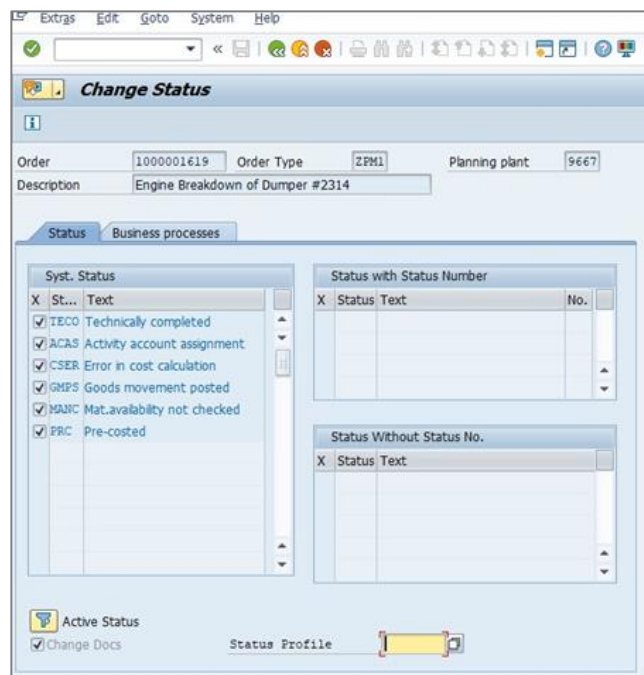


- IV. Go to IW32, Enter Order No and press enter.
- V. Enter **Reference date** and **time** of TECO order.
- VI. Click ok/continue button.





Notice the status marked as TECO – Technically Completed.



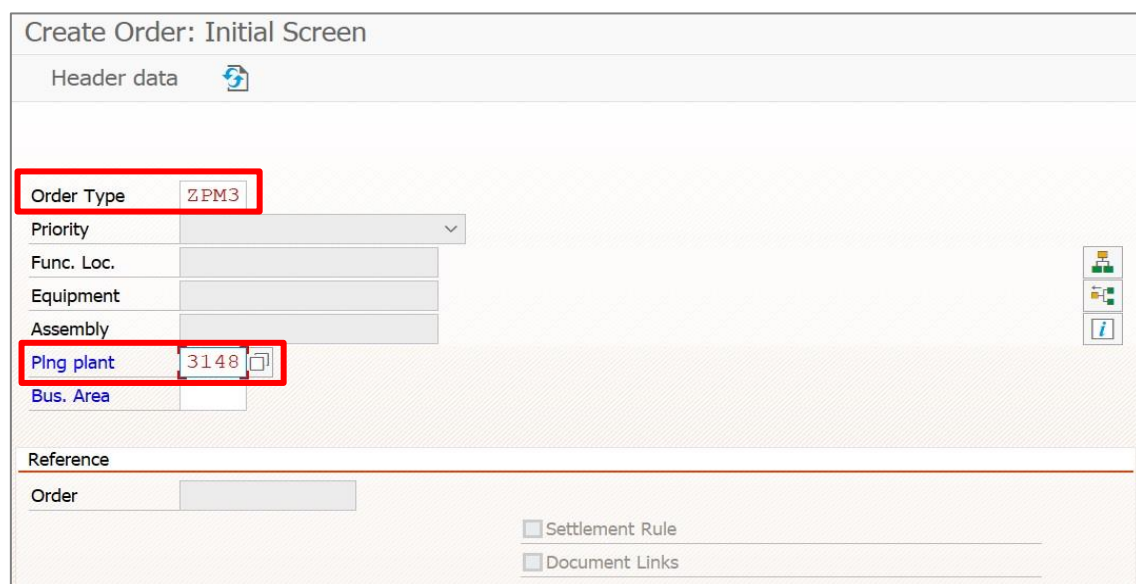
The screenshot shows the 'Change Status' dialog box in SAP. The 'Order' field is 1000001619, 'Order Type' is ZPM1, and 'Planning plant' is 9667. The 'Description' is 'Engine Breakdown of Dumper #2314'. The 'Status' tab is selected, showing a list of system statuses. The 'TECO' status is checked, indicating 'Technically completed'. Other statuses like 'ACAS', 'CSER', 'GNPS', 'MANC', and 'BRC' are also listed. The 'Status with Status Number' and 'Status Without Status No.' sections are also visible.

In upper process we see the defective engine Material no. 5300000030 and Serial no. 12QRE243 will received by CWS and gives a repaired engine to mine (9667).

## Refurbishment Process in CWS

### Create Order

- XVII. Execute transaction code **IW31** from SAP command field.
- XVIII. Enter **Order Type** as ZPM3.
- XIX. Enter **Planning Plant** number.
- XX. Press Enter.



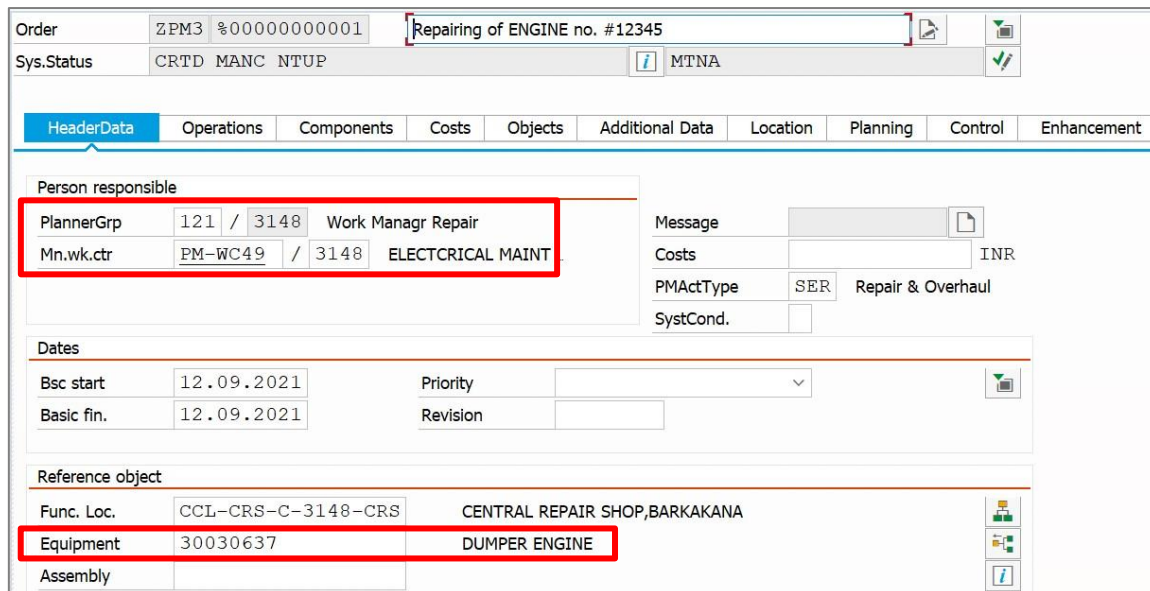
The screenshot shows the 'Create Order: Initial Screen' in SAP. The 'Header data' section is visible. The 'Order Type' field is highlighted with a red box and contains the value 'ZPM3'. The 'Planning plant' field is also highlighted with a red box and contains the value '3148'. Other fields like 'Priority', 'Func. Loc.', 'Equipment', and 'Assembly' are present but empty. The 'Reference' section at the bottom shows the 'Order' field.



XXI. Enter the following details:

- Planner group
- Maintenance work Center
- Equipment number

XXII. Click the release icon (green flag).



Order: ZPM3 %000000000001 Repairing of ENGINE no. #12345  
Sys.Status: CRTD MANC NTUP MTNA

**HeaderData** Operations Components Costs Objects Additional Data Location Planning Control Enhancement

Person responsible  
PlannerGrp: 121 / 3148 Work Managr Repair  
Mn.wk.ctr: PM-WC49 / 3148 ELECTCRICAL MAINT

Message:   
Costs:   
PMActType: SER Repair & Overhaul  
SystCond.:

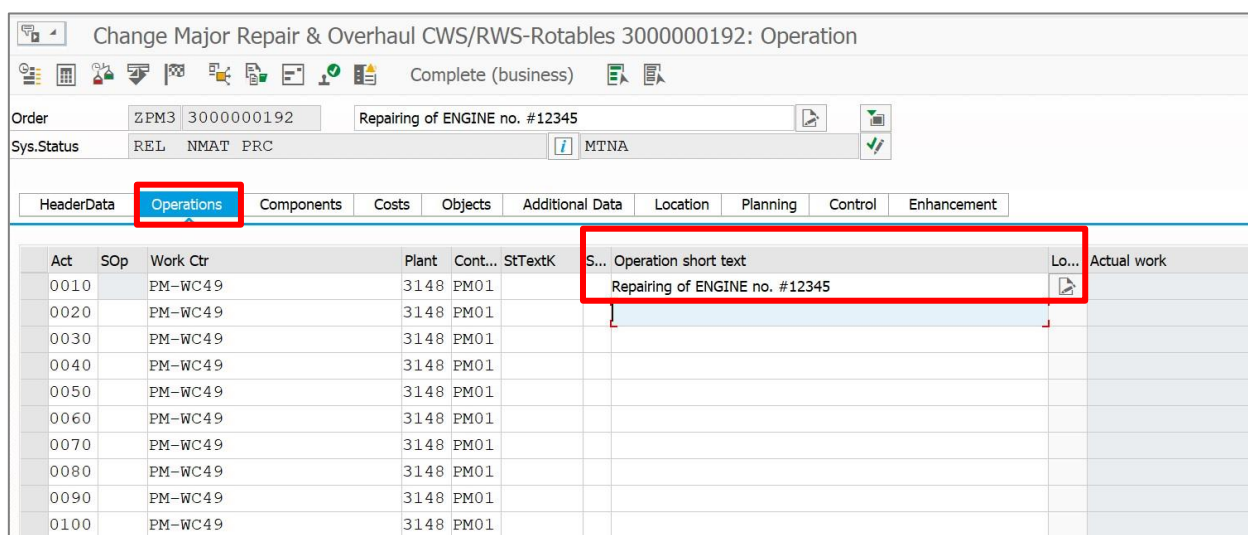
Dates  
Bsc start: 12.09.2021 Priority:   
Basic fin.: 12.09.2021 Revision:   
Reference object  
Func. Loc.: CCL-CRS-C-3148-CRS CENTRAL REPAIR SHOP,BARKAKANA  
Equipment: 30030637 DUMPER ENGINE  
Assembly:

XXIII. Click the save button.

XXIV. Click the **Operations** tab.

XXV. Enter **Operation short text**.

XXVI. Click the save button.



Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Operation  
Complete (business)

Order: ZPM3 3000000192 Repairing of ENGINE no. #12345  
Sys.Status: REL NMAT PRC MTNA

**HeaderData** **Operations** Components Costs Objects Additional Data Location Planning Control Enhancement

Act	SOp	Work Ctr	Plant	Cont...	StTextK	S... Operation short text	Lo...	Actual work
0010		PM-WC49	3148	PM01		Repairing of ENGINE no. #12345		
0020		PM-WC49	3148	PM01				
0030		PM-WC49	3148	PM01				
0040		PM-WC49	3148	PM01				
0050		PM-WC49	3148	PM01				
0060		PM-WC49	3148	PM01				
0070		PM-WC49	3148	PM01				
0080		PM-WC49	3148	PM01				
0090		PM-WC49	3148	PM01				
0100		PM-WC49	3148	PM01				

XXVII. Click the **Components** tab.

XXVIII. On item level, select **Component** number and enter **Manufacturer Number** against each component.

XXIX. Click the Settlement Rule.

Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Component

Complete (business)

Order: ZPM3 3000000192 Repairing of ENGINE no. #12345

Sys.Status: REL MANC NMAT PRC MTNA

HeaderData Operations **Components** Costs Objects Additional Data Location Planning Control Enhancement

Item...	Component	Description	Manufacturer Part No	Lo...	Reqmnt Qty
0010	4400244767	GASKET	4N0933		
0020	5300000051	Transmission Assembly	123456		
0030					
0040					
0050					
0060					
0070					
0080					
0090					

XXX. Change the cost center of sending plant in the **Settlement Receiver** column.

XXXI. Click the back button.

XXXII. Click the save button.

Maintain Settlement Rule: Overview

Order: 3000000192 Repairing of ENGINE no. #12345

Actual settlement

Distribution rules

Cat	Settlement Receiver	Receiver Short Text	%	Equivalence no.	Amount	A...	Settl...	No.	Str...	From ...	From Fi...
CTR	CCL3020200	CRSBK_E&M	100,00				FUL	1			
CTR	CCL3020200	SBK_E&M	100,00				PER	2			

Notice that the status settlement rule changed.

Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Central He

Complete (business)

Order: ZPM3 3000000192 Repairing of ENGINE no. #12345

Sys.Status: REL MANC PRC **SETC** MTNA

HeaderData | Operations | Components | Costs | Objects | Additional Data | Location | Planning | Control | Enhancement

Person responsible

PlannerGrp: 121 / 3148 Work Managr Repair

Mn.wk.ctr: PM-WC49 / 3148 ELECTRICAL MAINT

Message

Costs: 0,00 INR

PMActType: SER Repair & Overhaul

SystCond.

Dates

Bsc start: 12.09.2021 Priority

Basic fin.: 13.09.2021 Revision

### Time Confirmation of Order

Go to **IW41**

Enter order no and Continue.

Enter Actual Work Duration and click on Clear open Res and **Save**.

Enter PM Order Confirmation: Actual Data

Goods Movements | Notification | Object List | Measurement Documents

Order: 7000000101

Activity: 0010 Transmission Failure Testing

System Status: REL

Confirmation Data

Confirmation: 389954

Work Center: PM-WC01 1204 ELECTRICAL TEAM

Personnel no.

Actual Work: [ ] H Activity Type

Wage type

Posting Date: 21.08.2022

AcctIndicator

☒ Final Confirmtn ☒ No Remain. Work

☒ Clear Open Res. Remaining Work

Work Start: 30.06.2022 24:00:00 Actual Duration

Work Finish: 21.08.2022 23:59:25 Forecast End

Reason

Confirm. text

Long text exists

Total Confirmation Data

Cum.Actual Work: 0 H ActDuratn: 0 H


Forecast work: 0 H Planned Dur.: 0.0 H

Actual Start: 00:00:00 Actual End: 00:00:00


## Order Settlement

- VIII. Execute transaction code **KO88** in SAP command field.
- IX. Enter **Order** number.
- X. Enter **Processing type**.
- XI. Click the **Settlement Rule**.

Actual Settlement: Order

 **Settlement Rule**


Controlling Area CIL

Order 3000000192 

Parameters

Settlement period 1 Posting period

Fiscal Year 2021 Asset Value Date

Processing type 1 Automatic 

Processing Options

☒ Test Run


☐ Check trans. data



Go to **IW32** Enter Order no.



Complete the by click on checked flag.

- XII. Enter **Reference date** and **Reference time**.
- XIII. Click ok/continue button.
- XIV. Click the save button.



Change Major Repair & Overhaul CWS/RWS-Rotables 3000000192: Central He

 Complete (business)

Order ZPM3 3000000192 Repairing of ENGINE no. #12345  

Sys.Status REL MANC PRC SETC  ARPD 

HeaderData Operations Components Costs Objects Additional Data Location Planning Control Enhancement

 Complete 

Per:

Pla:

Mn:



Reference date 13.09.2021

Reference time 19:04:00

☒ Complete notifctns

Bas:

Bas:

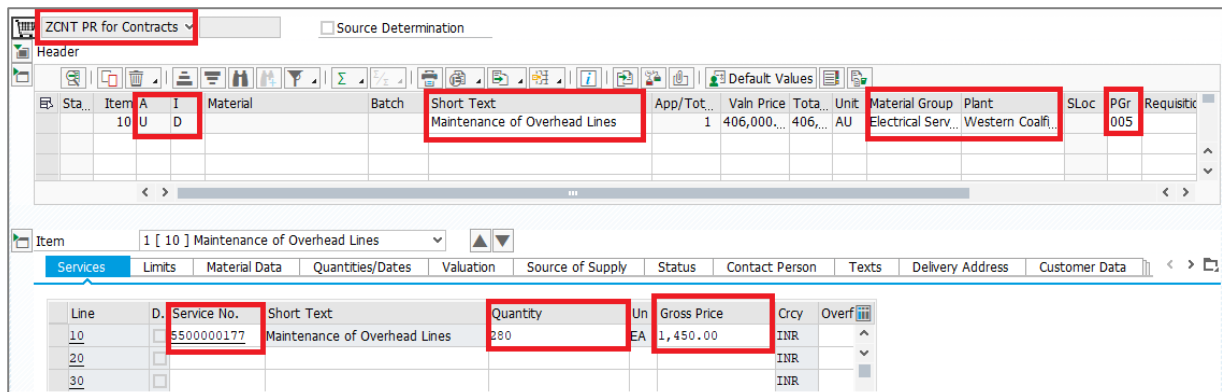
 Usage list 

# Hiring of Services against Rate Contract (Maintenance of Job Contract)

## Maintenance of Overhead Lines

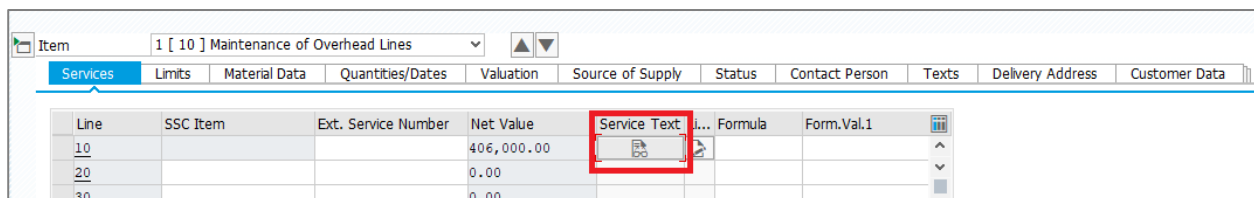
### Create Purchase Requisition

- I. Execute transaction code **ME51N** from SAP command field.
- II. Select a Document Type from the drop down menu.
- III. On header level, enter the following details:
  - Account Assignment Category
  - Item Category
  - Purchase Group
  - Short Text- Maintenance of Overhead Lines



The screenshot shows the SAP ME51N transaction. In the header section, the document type is 'ZCNT PR for Contracts'. The item category is 'U' and the item is '10'. The short text is 'Maintenance of Overhead Lines'. The material group is 'Electrical Serv...' and the plant is 'Western Coalfi...'. The purchase group is '005'. In the item section, the service number is '5500000177', the quantity is '280', and the gross price is '1,450.00'.

- IV. On item level, enter the following details:
  - Select Service Number
  - Quantity
  - Plant



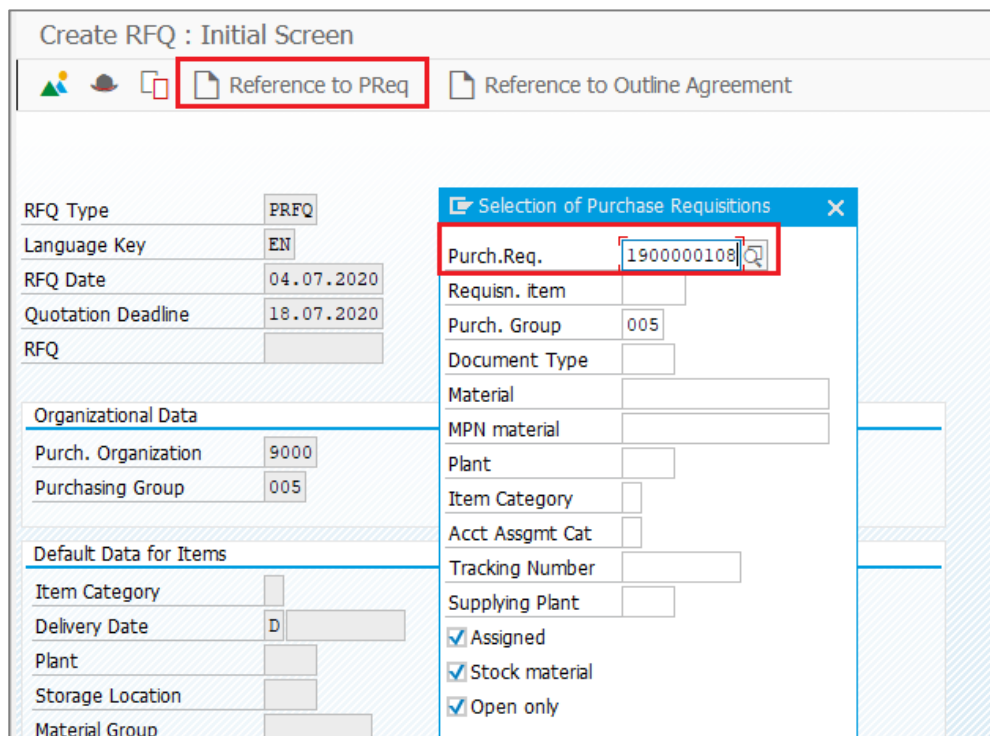
The screenshot shows the SAP ME51N transaction at the item level. The service number is '5500000177', the quantity is '280', and the gross price is '1,450.00'.

### Release Purchase Requisition

- I. Execute transaction code **ME54N** from SAP command field.
- Relevant information from PR will be exported to E-Procurement Portal.
- Bidding process @ Subsidiary HQ level with relevant information from purchase requisition.

## Create RFQ

- I. Execute transaction code **ME41** from SAP command field.
- II. Enter **Quotation Deadline** date.
- III. Enter purchasing organization code in **Purch. Organization** field.
- IV. Click **Reference to PReq** button.
- V. Enter purchase requisition number in **Purch.Req.** field.
- VI. Enter **Purchasing Group** code.



**Create RFQ : Initial Screen**

Reference to PReq | Reference to Outline Agreement

RFQ Type: PRFQ  
Language Key: EN  
RFQ Date: 04.07.2020  
Quotation Deadline: 18.07.2020  
RFQ:

**Organizational Data**  
Purch. Organization: 9000  
Purchasing Group: 005

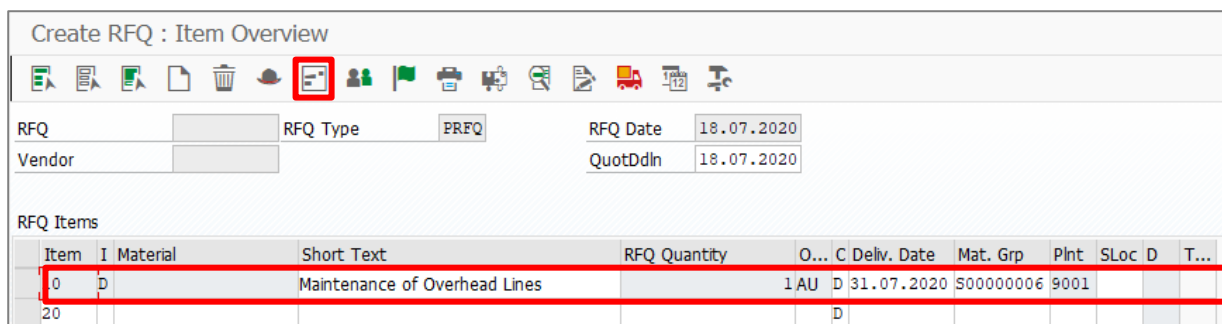
**Default Data for Items**  
Item Category:   
Delivery Date: D  
Plant:   
Storage Location:   
Material Group:

**Selection of Purchase Requisitions**

Purch.Req.: 1900000108  
Requisn. item:   
Purch. Group: 005  
Document Type:   
Material:   
MPN material:   
Plant:   
Item Category:   
Acct Assgmt Cat:   
Tracking Number:   
Supplying Plant:   
☒ Assigned  
☒ Stock material  
☒ Open only

**Note:** Post bidding process, import relevant information from E-Procurement Portal to SAP RFQ and RFQ document will be created automatically in the background.

- VII. Click the vendor address button.
- VIII. Enter the vendor details on item level.



**Create RFQ : Item Overview**

RFQ: | RFQ Type: PRFQ | RFQ Date: 18.07.2020  
Vendor: | QuotDdln: 18.07.2020

**RFQ Items**

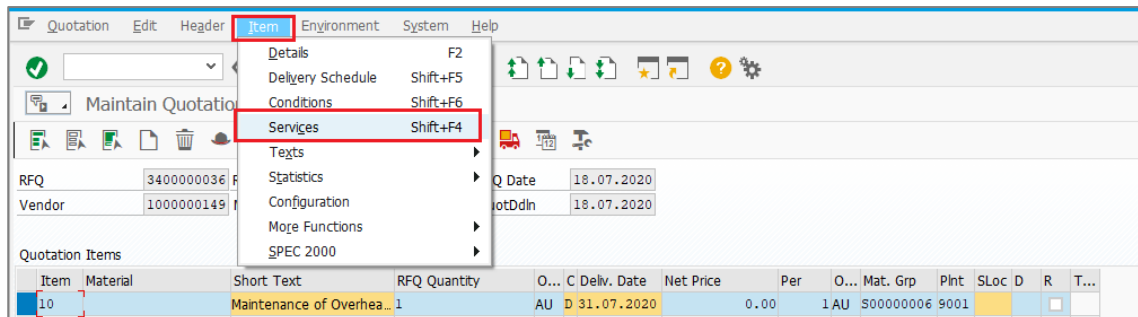
Item	I	Material	Short Text	RFQ Quantity	O...	C	Deliv. Date	Mat. Grp	Plnt	SLoc	D	T...
0	D		Maintenance of Overhead Lines	1	AU	D	31.07.2020	S000000006	9001			
20												

## Maintain Quotation

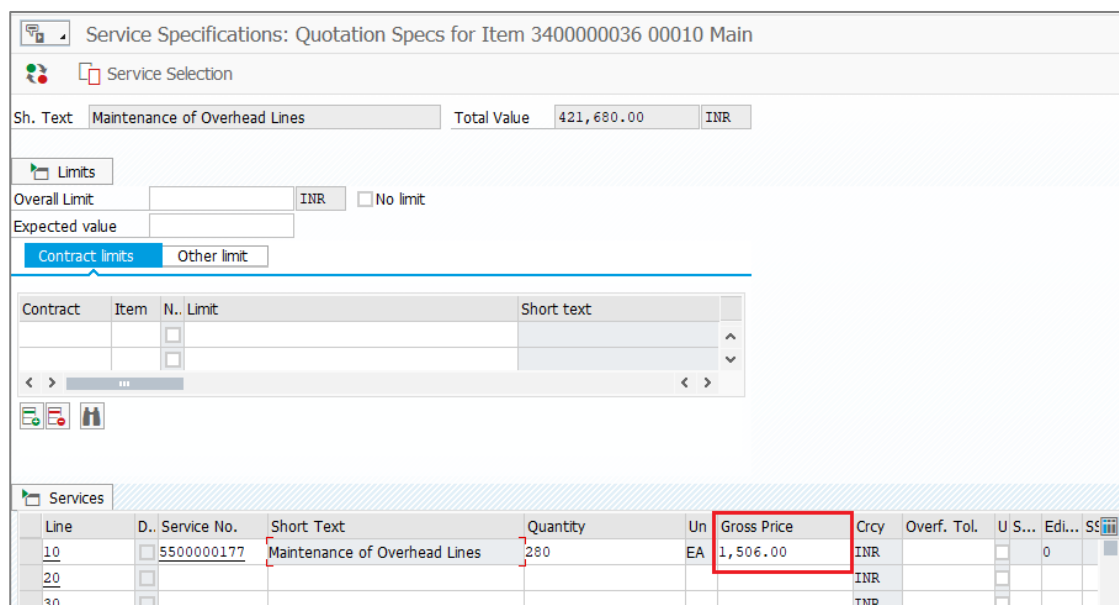
In this step, quotation of different bidders should be maintained. This step is also handled automatically in the background.



- I. Execute transaction code **ME47** from SAP command field.
- II. Click **Item** on the top menu bar.
- III. Click **Services**.



- IV. On services level, enter **Gross Price**.
- V. Click the save button.





## **Compare Quotation**

This step is created automatically by SAP ECC in the background.


- I. Execute transaction code **ME49** from SAP command field.
- II. Enter **Purchasing Organization** code.
- III. Enter **Quotation** range.
- IV. Click the execute icon.



Price Comparison List

Purchasing Organization 9000

Quotation 3400000035 to 3400000036 









Collective RFQ to

Vendor to

Material to

Price comparison list is displayed.

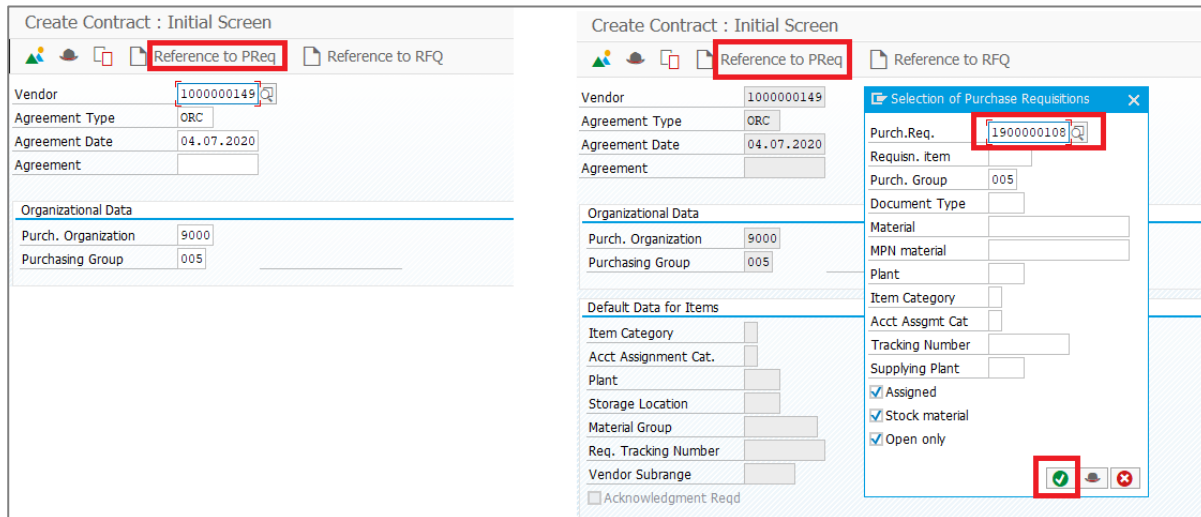
Price Comparison List in Currency INR

Navigation:      Quotation  Vendor  Services  Level 4

Material Mat. Group	Quot.:	3400000036	3400000035
Sh. Text	Bidder:	1000000149	1000000005
Qty. in Base Unit	Name:	M/s. Shraddha Ent	Indian Railways
S000000006	Val.:	421,680.00	448,000.00
Maintenance of Overhea	Price:	421,680.00	448,000.00
Srv.Specs AU	Rank:	1 97 %	2 103 %
Total Quot.	Val.:	421,680.00	448,000.00
	Rank:	1 97 %	2 103 %

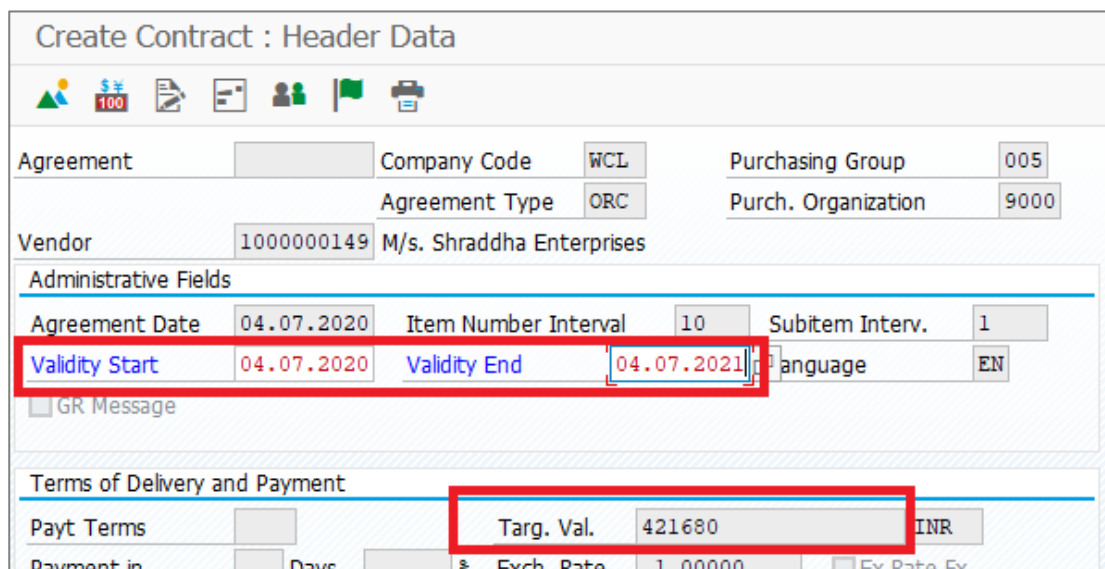
### Create Contract w.r.t. RFQ/Purchase Requisition

- I. Execute transaction code **ME31K** from SAP command field.
- II. Enter the following details:
  - Vendor
  - Purchasing Organization
  - Document/Agreement Type
  - RFQ No.
  - Validity of the Rate Contract
  - Target Value
  - Purchasing Group
  - Account Assignment Category
- III. Click **Reference to PReq** button.
- IV. Enter **Purchase Requisition** number.
- V. Click on ok/continue button.



VI. Enter **Validity Start** date and **Validity End** date.



VII. Enter **Target Value**.



VIII. Click on select all button.

IX. Click on **Adopt + Details** button.

Create Contract : Selection List: Purchase Requisitions

**Adopt + Details**  

Pur. Req.	Item	Material	Short Text	Plnt	SLoc	I	A	Cl	Qty	Un	C Deliv. Date	Rel. Date	Fixed V.	S	Batch	Stock Segment
1900000108			Maintenance of Overhea...	9001		D	U			1.000 AU		04.07.2020		N		

X. Enter **Tax Code**.

Create Contract : Item 00010

Account Assignments

Agreement Item  Item Cat.  AcctAssCat   
 Material  Matl Group  Plant   
 Short Text

Quantity and Price

Target Quantity  AU RelOrdQty.   
 Net Order Price  INR / 1 AU Price Date   
 Qty Conversion  AU <->  AU

Other Data

ConfContr.  ☐ Acknowl. Reqd  
 Ackn. No.   
 TrackingNo   
 Vend. Mat.  ☒ Print Price

GR/IR Control

Underdel. Tol.  % ☐ Info atReg  
 Overdeliv. Tol.  % ☒ Unlimited ☐ GR non-val  
 Tax Code  ☐ ☐ ☒ IR ☒ GR-Based IV  
☐ S-Based IV

Create Contract : Item Overview

Account Assignments

Agreement  Agreement Type  Agmt Date   
 Vendor  M/s. Shraddha Enterprises Currency

Outline Agreement Items

Item	I	A	Material	Short Text	Targ. Qty	O... Net Price	Per	O... Mat. Grp	Plnt	SLoc	D
10	D	U		Maintenance of Overhea...	1 AU	421,680.001	1	AU S00000006	9001		
20											

## Release Contract

- I. Execute transaction code **ME35K** from SAP command field.
- II. Release Contract.
- III. Release codes as per the release strategy.
- IV. Enter document number.

**Note:** As per the release procedure all the authorities will release the Contract

## Create Purchase Order w.r.t contract

- I. Execute transaction code **ME21N** from SAP command field.
- II. Enter Document Type, Contract Number, Quantity, Account Assignment Category, Outline agreement Number and item number.

ZOTR PO for Other S... Vendor 1000000149 M/s. Shraddha Ente... Doc. date 04.07.2020

Header

S...	Itm	A	T	IM	Material	Info rec.	R...	F...	T...	Purch.Req.	Req...	Outline ag...	Con...	RFQ	Item	Purchasing...	Item
10	U											4600000036	10				

III. Click the **Service selection** tab to adopt services from contract.

Create Purchase Order

Document Overview On Hold Park Print Preview Messages Personal Setting Save As Template Load

ZOTR PO for Other S... Vendor 1000000149 M/s. Shraddha Ente... Doc. date 04.07.2020

Header

S...	Itm	A	Delv. Date	Net Price	Curr...	Per	O...	Matl Group	Plnt	Stor. Location	Batch	Reqmt No.	Requisitioner	T IM Material	Info rec.	R...	F...
10	U		04.07.2020	421,680.00	INR	1	AU	Electrical Se...	Western Coalfields...								

Item 1 [ 10 ] Maintenance of Overhead Lines

Services Limits Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions India Texts Delivery Address Confirm...

Line	D.. Service No.	Short Text	Quantity	Un	Gross Price	Cry	Overf
10	500000177	Maintenance of Overhead Lines	280	EA	1,506.00	INR	
20						INR	
30						INR	
40						INR	
50						INR	
60						INR	
70						INR	
80						INR	
90						INR	
100						INR	

Service Sel. Line 10

## Release Purchase Order

Transaction code - ME29N

As per the release procedure all the authorities will release the PO.

## Create Maintenance Order w.r.t PO

User (E&M Dept.) will create Maintenance Order as per the need on Technical Objects (Functional Location/Equipment)

- I. Execute transaction code **IW31** from SAP command field.
- II. Enter functional location in **Func. Loc.** field.
- III. Press Enter.

Order Edit Goto Extras Environment System Help

Create Breakdown Maintenance Order: Initial Screen

Header data

Order Type ZPM1

Priority 1 1-Very high

Func. Loc. WCL-HDQ-S-9001-ESS

Equipment

Assembly

Plng plant

Bus. Area

- IV. Enter **Order** description.
- V. Enter **Maintenance work center** code.
- VI. Enter **Basic Start** and **Basic Finish** dates.
- VII. Enter **Functional Location**.
- VIII. Enter **Work Center / Plant** code.

Create Breakdown Maintenance Order : Central Header

Create Breakdown Maintenance Order : Central Header

Order ZPM1 000000000001 Repair of OH Powerline

Sys.Status REL ESTC

HeaderData Operations Components Costs Objects Additional Data Location Planning Control POL Data

Person responsible

PlannerGrp / 9001

Mn.wk.ctr PM-WC21 / 9001 Electrical Substati..

Message

Costs 1,500.00 INR

PMActType EXT External Activity

SystCond.

Dates

Bsc start 06.07.2020 Priority 1 1-Very high

Basic fin. 07.07.2020 Revision

Reference object

Func. Loc. WCL-HDQ-S-9001-ESS WCL HDQ Electrical Substation

Equipment

Assembly

First operation

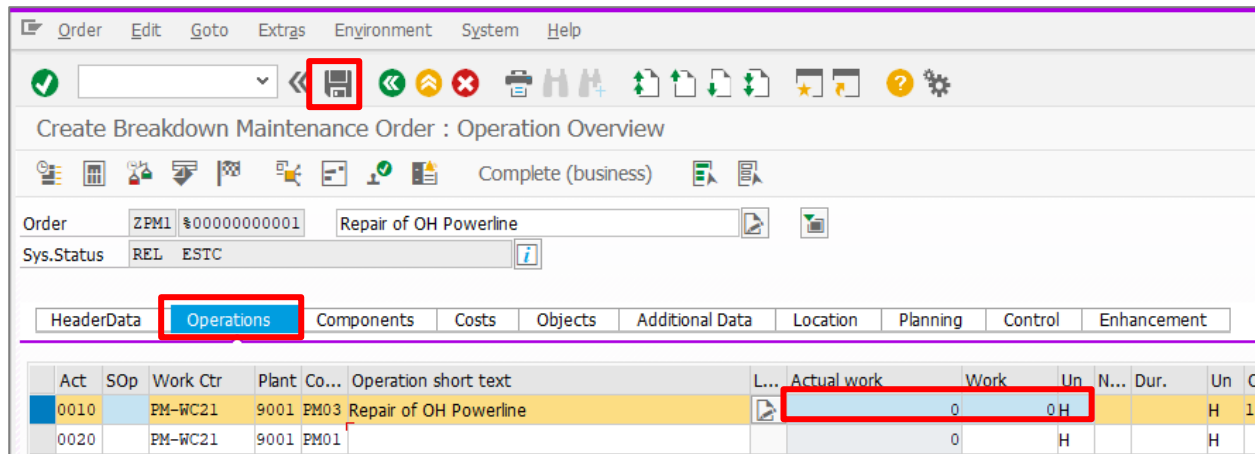
Operation Repair of OH Powerline CkKey 1 Calculate duration

WkCtr/Plnt PM-WC21 / 9001 Ctrl key PM03 Acty Type PRT

Work durtn 0 H Number Opn dur. H Comp.

Person. no

- IX. Click the **Operations** tab.
- X. Enter required details.
- XI. Click the save button.



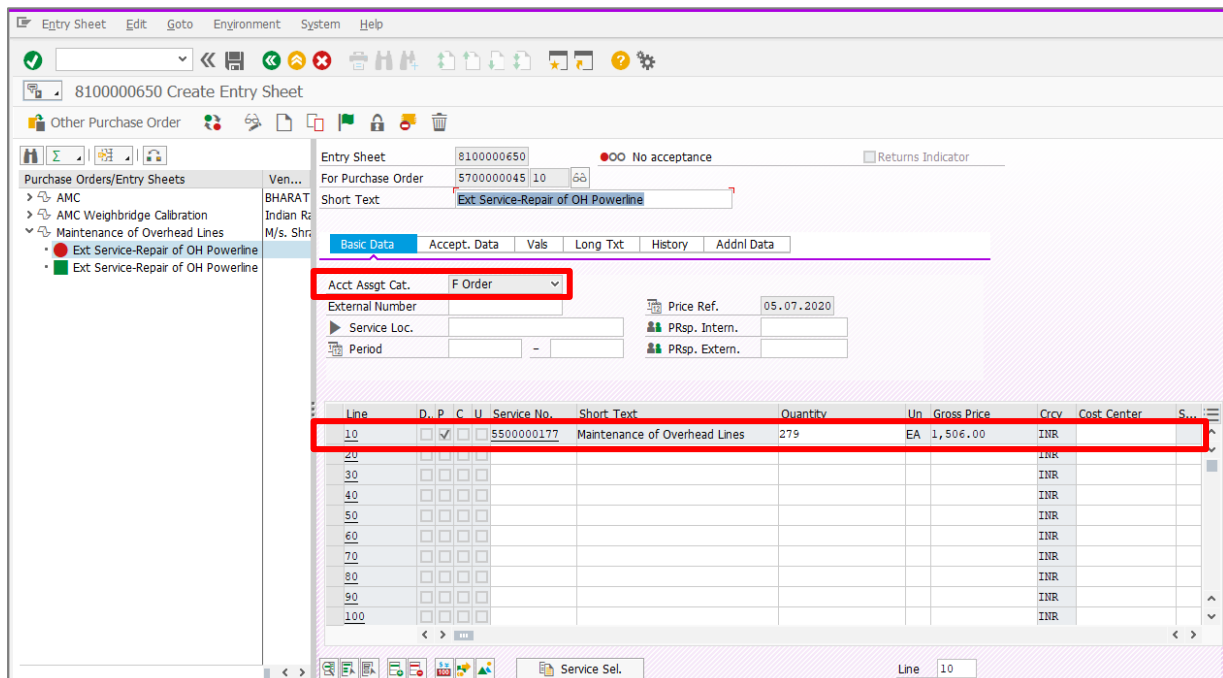
Act	SOp	Work Ctr	Plant	Co...	Operation short text	L...	Actual work	Work	Un	N...	Dur.	Un	C
0010		PM-WC21	9001	EM03	Repair of OH Powerline		0	0	H			H	1
0020		PM-WC21	9001	EM01			0		H			H	

The maintenance order is created and a message is displayed at the bottom.

✓ Order saved with number 1000000606

## Create Service Entry Sheet

- I. Execute transaction code **ML81N** from SAP command field.
- II. Create Service Entry Sheet w.r.t PO created.
- III. Select **Account Assignment** Category.
- IV. Assign **Maintenance Order**.
- V. Click the save button.



Line	D..P	C	U	Service No.	Short Text	Quantity	Un	Gross Price	Crvy	Cost Center	S...
10				5500000172	Maintenance of Overhead Lines	279	EA	1,506.00	INR		
20									INR		
30									INR		
40									INR		
50									INR		
60									INR		
70									INR		
80									INR		
90									INR		
100									INR		

- VI. Select required item from the list.

Display Document: Data Entry View

Display Currency General Ledger View

Data Entry View

Document Number	2600000374	Company Code	WCL	Fiscal Year	2020
Document Date	05.07.2020	Posting Date	05.07.2020	Period	4
Reference		Cross-Comp.No.			
Currency	INR	Texts exist	<input type="checkbox"/>	Ledger Group	

CoCd	Item	Key S	Account	Description	Amount	Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Cen
WCL	1	81	40008020	Electrical Services	1,506.00	INR					1,506.00	INR	
	2	96	11000010	GR/IR clearing	1,506.00-	INR					1,506.00-	INR	

Display Document: Data Entry View

Display Currency General Ledger View

Data Entry View

Document Number	2600000374	Company Code	WCL	Fiscal Year	2020
Document Date	05.07.2020	Posting Date	05.07.2020	Period	4
Reference		Cross-Comp.No.			
Currency	INR	Texts exist	<input type="checkbox"/>	Ledger Group	

Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Center	Profit Center	Partner PC	Trans.	Assignment	TPBA	WT
INR				1,506.00	INR			WCL9001		KBS	26000003742020		
INR				1,506.00-	INR			WCL9001		WRX	570000004500010		


## **Release SES**

- I. Execute transaction code **ML81N** from SAP command field.
- II. Enter the **Entry Sheet** number.
- III. Enter **Release Code** as per Release Strategy.
- IV. Click the execute button.



Program Edit Goto System Help

Collective Release of Entry Sheets



Release

Release Code 11

Release Group to

Set Release ☒

Cancel Release ☐

PO Data

Purchase Order to

Document Date to

Document Type to

Vendor to

Purchasing Organization to

Purchasing Group to

Plant to

Material/Service Group to

Entry Sheet Data

Entry Sheet 8100000650 to

External Number to

Release entry sheet is displayed.

List Edit Goto System Help

Release Entry Sheets with Release Code 11

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value	PO Item
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value	EntrySh.
Rel.Str.				RelIn		Release Option
5700000045	9000	005	1000000149	M/s. Shraddha Enterprises	INR	04.07.2020
00010	9001		500000006	Maintenance of Overhead Lines	421,680.00	04.07.2020
8100000650				Ext Service-Repair of OH Powerlin	1,506.00	05.07.2020
SE/10 Up to 3750000	inr			A Blocked, Changable		Release Set

Release Entry Sheets with Release Code 12

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value PO Item	Del. Date
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value EntrySh.	Cr. Date
Rel.Str.			RelIn		Release Option	
5700000045	9000	005	1000000149	M/s. Shraddha Enterprises	INR	04.07.2020
00010	9001		S000000006	Maintenance of Overhead Lines	421,680.00	04.07.2020
8100000650				Ext Service-Repair of OH Powerlin	1,506.00	05.07.2020
SE/10 Up to 3750000	inr			A Blocked, Changable	Release Set	

Release Entry Sheets with Release Code 13

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value PO Item	Del. Date
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value EntrySh.	Cr. Date
Rel.Str.			RelIn		Release Option	
5700000045	9000	005	1000000149	M/s. Shraddha Enterprises	INR	04.07.2020
00010	9001		S000000006	Maintenance of Overhead Lines	421,680.00	04.07.2020
8100000650				Ext Service-Repair of OH Powerlin	1,506.00	05.07.2020
SE/10 Up to 3750000	inr			A Blocked, Changable	Release Set	

Release Entry Sheets with Release Code 14

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value PO Item	Del. Date
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value EntrySh.	Cr. Date
Rel.Str.			RelIn		Release Option	
5700000045	9000	005	1000000149	M/s. Shraddha Enterprises	INR	04.07.2020
00010	9001		S000000006	Maintenance of Overhead Lines	421,680.00	04.07.2020
8100000650				Ext Service-Repair of OH Powerlin	1,506.00	05.07.2020
SE/10 Up to 3750000	inr			C Released, No Changes	Release Set	

### Invoice Receipt against Service Entry Sheet

- I. Execute transaction code **MIRO** from SAP command field.
- II. Enter the following details:
  - Invoice Date
  - Service Entry Sheet in reference
  - Service Entry Sheet Number

Enter Incoming Invoice: Company Code WCL

Show PO structure Show worklist Hold Simulate Messages Help NF

Transaction 1 Invoice Balance 0.00 INR

Diff. Posting Not Applicable

Basic Data Payment Details Tax Withholding tax

Invoice date 05.07.2020 Reference

Posting Date 05.07.2020

Amount 1,777.08 INR Calculate tax

Tax Amount 271.08

Bus.place/sectn WCMR / 9001

Other Details

Paymt terms Due immediately

Baseline Date 05.07.2020

Vendor 1000000149

M/s. Shraddha Enterprises

At.Sonpur Po.Adasa, Tah. Kamleshwar

440001 NAGPUR

INDIA

Bank Key DUMMY

Bank acct 12345678905

DUMMY BK

PO Reference G/L Account Material

4 Service Entry Sheet 8100000650

Layout 13\_6310 All Information

Item	Amount	Quantity	O...	Purchase ...	Item	PO Text	Outline a
	1,506.00			5700000045	10	Ext Service-Repair of OH Powerline	

III. Click the **Payment** tab.

IV. Enter the **Baseline Date**.

Basic Data Payment Details Tax Withholding tax

BaselineDt 05.07.2020

Due on

CashDisct INR

Pmnt Terms

Days

Days

Days net

Fixed

Pmt Method

Pmnt Block Free for payme...

Inv.ref.

Part. bank

House bank

V. Click the save button. Data entry line items are listed.

Display Document: Data Entry View

Taxes Display Currency General Ledger View

Data Entry View

Document Number 3200000086 Company Code WCL Fiscal Year 2020

Document Date 05.07.2020 Posting Date 05.07.2020 Period 4

Reference Cross-Comp.No.

Currency INR Texts exist Ledger Group

CoCd	Item	Key S	Account	Description	Amount	Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Cen
WCL	1	31	1000000149	M/s. Shraddha Enterprises	1,777.08	INR			V5	1,777.08	INR		
	2	86	11000010	GR/IR clearing	1,506.00	INR			V5	1,506.00	INR		
	3	40	21400005	CGST ITC Receivable	135.54	INR			V5	135.54	INR		
	4	40	21400006	SGST ITC Receivable	135.54	INR			V5	135.54	INR		

Display Document: Data Entry View

Taxes Display Currency General Ledger View

Data Entry View

Document Number 3200000086 Company Code WCL Fiscal Year 2020

Document Date 05.07.2020 Posting Date 05.07.2020 Period 4

Reference Cross-Comp.No.

Currency INR Texts exist Ledger Group

Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Center	Profit Center	Partner PC	Trans.	Assignment	TPBA	WT
INR			V5	1,777.08-	INR					KBS			
INR			V5	1,506.00	INR			WCL9001		WRX	570000004500010		
INR			V5	135.54	INR					JIC	20200705		
INR			V5	135.54	INR					JIS	20200705		

## Payment

- I. Execute transaction code **F110** from SAP command field.
- II. Enter Accounting Document Number.
- III. Press Enter.

The payment run is carried out and the automatic payment procedure is completed.

**Vendor Line Item Display**

Vendor 1000000149  
Company Code WCL

Name M/s. Shraddha Enterprises  
City Nagpur

St	Assignment	DocumentNo	Type	Doc. Date	S	DD	Amount in local cur.	LCurr	Clrng doc.	Other Details
		3200000086	RE	05.07.2020			1,777.08-	INR		
*							1,777.08-	INR		
** Account 1000000149							1,777.08-	INR		

## Check Vendor Open Item Balance

- I. Execute transaction code **F110** from SAP command field.
- II. Enter **Run Date**.

Status is displayed under Status tab.

**Automatic Payment Transactions: Status**

Status Payment Run Proposal Proposal Proposal

Run Date 18.08.2020

Identification RCH2

Status Parameter Free selection Additional Log Printout/data medium

Status

Parameters have been entered

III. Click the Parameter tab.

IV. Enter details:

- Posting Date
- Docs entered up to date
- Company code where payment needs to be generated

**Automatic Payment Transactions: Parameters**

B.ex./pmt request...

Run Date 18.08.2020

Identification RCH2

Status Parameter Free selection Additional Log Printout/data medium

Posting Date 18.08.2020 Docs entered up to 18.08.2020

Customer items due by

Payments control

Company codes	Pmt meths	Next p/date
WCL	T	19.08.2020

V. Click **Free Selection** tab.

VI. Select Document in Field Name.

VII. Enter invoice document number in the **Value** field.

**Automatic Payment Transactions: Free Selection**

Run Date: 18.08.2020  
Identification: RCH2

Selection criteria

Field Name	Document Number	<input type="checkbox"/> Exclude values
Values	3200000086	

- VIII. Click Additional Log tab.
- IX. Select the required parameters in **Required logging time** section.
- X. Enter the **Vendor** number to whom we want to pay.

**Automatic Payment Transactions: Additional Log**

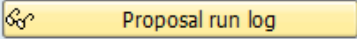
Run Date: 18.08.2020  
Identification: RCH2

Required logging type

- ☒ Due date check
- ☐ Payment method selection in all cases
- ☒ Pmnt method selection if not successful
- ☒ Line items of the payment documents

Accounts required

Vendors (from/to)		Customers (from/to)	
1000000149	1000000149		



- XI. Click the **Proposal** tab.
- XII. Click the **Start Immediately** check box if the payments needs to be made immediately.

**Automatic Payment Transactions: Status**

Status **Proposal** Payment Run

Run Date: 18.08.2020  
Identification: RCH2

Status Parameter Free selection Additional Log Printout/data medium

**Schedule Proposal**

Start date: 18.08.2020 ☒ Start immediately  
Start time: 00:00:00  
Target computer:

☒ ☐

Check the proposal log.

**Job Log Entries for F110-20200818-RCH2 -X / 10574700**

Long text Previous Page Next page

Job log overview for job: F110-20200818-RCH2 -X / 10574700

Date	Time	Message text	Message class	Message no.	Message type
18.08.2020	10:57:47	Job started	00	516	S
18.08.2020	10:57:47	Step 001 started (program SAPF110S, variant s0000000000188, user ID SS95560)	00	550	S
18.08.2020	10:57:47	Log for proposal run for payment on 18.08.2020, identification RCH2	FZ	402	S
18.08.2020	10:57:47	>	FZ	693	S
18.08.2020	10:57:47	> Additional log for vendor 1000000149 company code WCL	FZ	691	S
18.08.2020	10:57:47	>	FZ	693	S
18.08.2020	10:57:47	> Due date determination additional log	FZ	799	S
18.08.2020	10:57:47	> Document 3200000086 line item 001 via INR 1,777.08-	FZ	700	S
18.08.2020	10:57:47	> Terms of payment: 05.07.2020 0 0.000 % 0 0.000 % 0	FZ	701	S
18.08.2020	10:57:47	> 00 days grace period is being considered	FZ	726	S
18.08.2020	10:57:47	> Payment must take place before 05.07.2020; next payment on 19.08.2020	FZ	728	S
18.08.2020	10:57:47	> Item is due with 0.000 % cash discount	FZ	721	S
18.08.2020	10:57:47	>	FZ	693	S
18.08.2020	10:57:47	> Posting documents additional log	FZ	798	S
18.08.2020	10:57:47	> Document F110000001 company code WCL currency INR payment method T	FZ	741	S
18.08.2020	10:57:47	> Lit PK Acct RA Amount Tax	FZ	743	S
18.08.2020	10:57:47	>	FZ	744	S
18.08.2020	10:57:47	> 001 25 1000000149 1,777.08 0.00	FZ	744	S
18.08.2020	10:57:47	> 002 50 0021001392 1,777.08 0.00	FZ	744	S
18.08.2020	10:57:47	>	FZ	744	S
18.08.2020	10:57:47	End of log	FZ	398	S
18.08.2020	10:57:47	Job finished	00	517	S

- XIII. Click **Payment Run** button.
- XIV. On a pop-up window, enter **Start Date**.
- XV. Click the **Start Immediately** checkbox.



**Automatic Payment Transactions: Status**

Status **Payment Run** Proposal Proposal Proposal

Run Date 18.08.2020  
Identification RCH2

Status Parameter Free selection Additional Log Printout/data medium

**Schedule Payment**

Start date 18.08.2020 ☒ Start immediately  
Start time 00:00:00  
Target computer

☒ ☐

The payment document is generate. Check the payment log accordingly.

**Automatic Payment Transactions: Status**

Status Payment Proposal Proposal Printout

Run Date 18.08.2020  
Identification RCH2

Status Parameter Free selection Additional Log Printout/data medium

**Status**

- Parameters have been entered
- Payment proposal has been created
- Payment run has been carried out

Posting orders: 1 generated, 1 completed

Job Log Entries for F110-20200818-RCH2 / 10585100					
Job log overview for job: F110-20200818-RCH2 / 10585100					
Date	Time	Message text	Message class	Message no.	Message type
18.08.2020	10:58:51	Job started	00	516	S
18.08.2020	10:58:51	Step 001 started (program SAPF110S, variant s0000000000189, user ID SS595560)	00	550	S
18.08.2020	10:58:51	Log for payment run for payment on 18.08.2020, identification RCH2	FZ	401	S
18.08.2020	10:58:51	>	FZ	693	S
18.08.2020	10:58:51	> Additional log for vendor 1000000149 company code WCL	FZ	691	S
18.08.2020	10:58:51	>	FZ	693	S
18.08.2020	10:58:51	> Posting documents additional log	FZ	798	S
18.08.2020	10:58:51	> Document 2000000037 company code WCL currency INR payment method T	FZ	741	S
18.08.2020	10:58:51	> Lit PK Acct RA Amount Tax	FZ	743	S
18.08.2020	10:58:51	>	FZ	744	S
18.08.2020	10:58:51	> 001 25 1000000149 1,777.08 0.00	FZ	744	S
18.08.2020	10:58:51	> 002 50 0021001392 1,777.08 0.00	FZ	744	S
18.08.2020	10:58:51	>	FZ	744	S
18.08.2020	10:58:51	End of log	FZ	398	S
18.08.2020	10:58:51	Job finished	00	517	S

Payment run executed and payment has been made.

Check the cleared item in **FBL1N** transaction code.

Vendor Line Item Display										
Vendor		1000000149								
Company Code		WCL								
Name		M/s. Shradha Enterprises								
City		Nagpur								
St	Assignment	DocumentNo	Type	Doc. Date	S	DD	Amount in local cur.	LCurr	Clrng doc.	Other Details
		2000000037	ZP	18.08.2020			1,777.08	INR	2000000037	
		3200000086	RE	05.07.2020			1,777.08-	INR	2000000037	
*							0.00	INR		
** Account 1000000149							0.00	INR		

## Glass Fitting for Dumper

### Create Purchase Requisition (PR)

- I. Execute transaction code **ME51N** from SAP command field.
- II. Enter the following details:
  - Document Type – ZCNT
  - Account Assignment Category
  - Item Category
  - Purchase Group
  - Short Text- Glass fitting for Dumper
  - Select Service Number
  - Quantity
  - Plant

Create Purchase Requisition

Document Overview On Hold Park Personal Setting Save As Template Load from Template

**ZCNT PR for Contracts** ☐ Source Determination

Header

Sta...	Item	A	I	Material	Batch	Short Text	App/Tot...	Valn Price	Tota...	Unit	Material Group	Plant	SLoc	PGr	Requisitioner	Tr
	10	U	D			Glass fitting for Dumper	1	120,000...	120,...	AU	E&T Services	Kamptee OC Mi		004		

Item: 1 [ 10 ] Glass fitting for Dumper

Services Limits Material Data Quantities/Dates Valuation Source of Supply Status Contact Person Texts Delivery Address Customer Data

Line	D.	Service No.	Short Text	Quantity	Un	Gross Price	Crpy
10		19000000000000	Glass fitting for Dumper window	20		8,000.00	NR
20							NR
30							NR

## Release Purchase Requisition

Transaction code - ME54N

Relevant information from PR will be exported to E Procurement Portal

Bidding process @ Area level with relevant information from purchase requisition

## Create RFQ

- I. Execute transaction code **ME41** from SAP command field.
- II. Enter the following details:
  - Doc Type
  - Quotation Deadline
  - Purchase Requisition No.
  - Purchasing Organization
  - Purchase Grp

Create RFQ : Initial Screen

**Reference to PReq** Reference to Outline Agreement

RFQ Type: PRFQ  
Language Key: EN  
RFQ Date: 04.07.2020  
Quotation Deadline: 04.07.2020  
RFQ:

Organizational Data  
Purch. Organization: 9000  
Purchasing Group: 004

Default Data for Items  
Item Category:   
Delivery Date: D  
Plant:   
Storage Location:   
Material Group:

**Selection of Purchase Requisitions**

Purch.Req.: 1900000109

Requisn. item:   
Purch. Group: 004  
Document Type:   
Material:   
MPN material:   
Plant:   
Item Category:   
Acct Assgmt Cat:   
Tracking Number:   
Supplying Plant:

☒ Assigned  
☒ Stock material  
☒ Open only

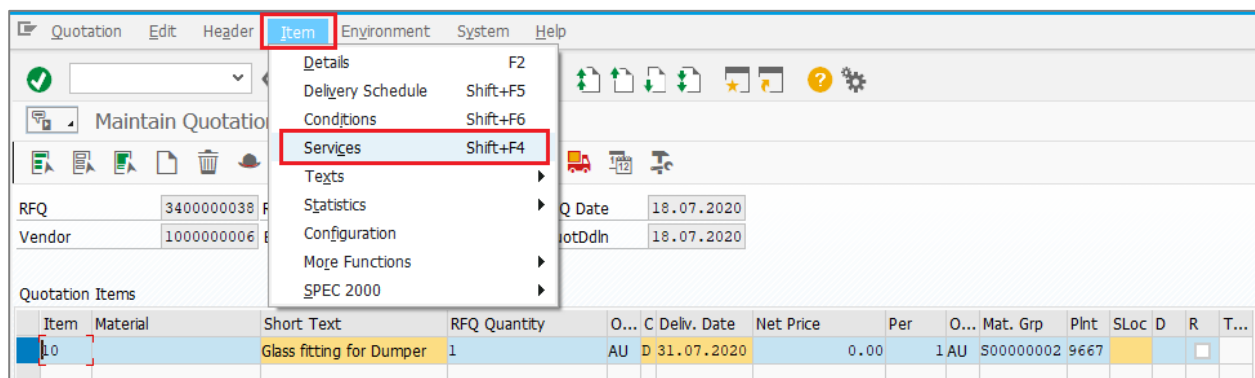
RFQ		RFQ Type	PRFQ	RFQ Date	18.07.2020
Vendor				QuotDdlm	18.07.2020

Item	I	Material	Short Text	RFQ Quantity	O...	C Deliv. Date	Mat. Grp	Plnt	SLoc	D	T...
10	D		Glass fitting for Dumper	1	AU	D 31.07.2020	S00000002	9667			
20					D						

## Maintain Quotation

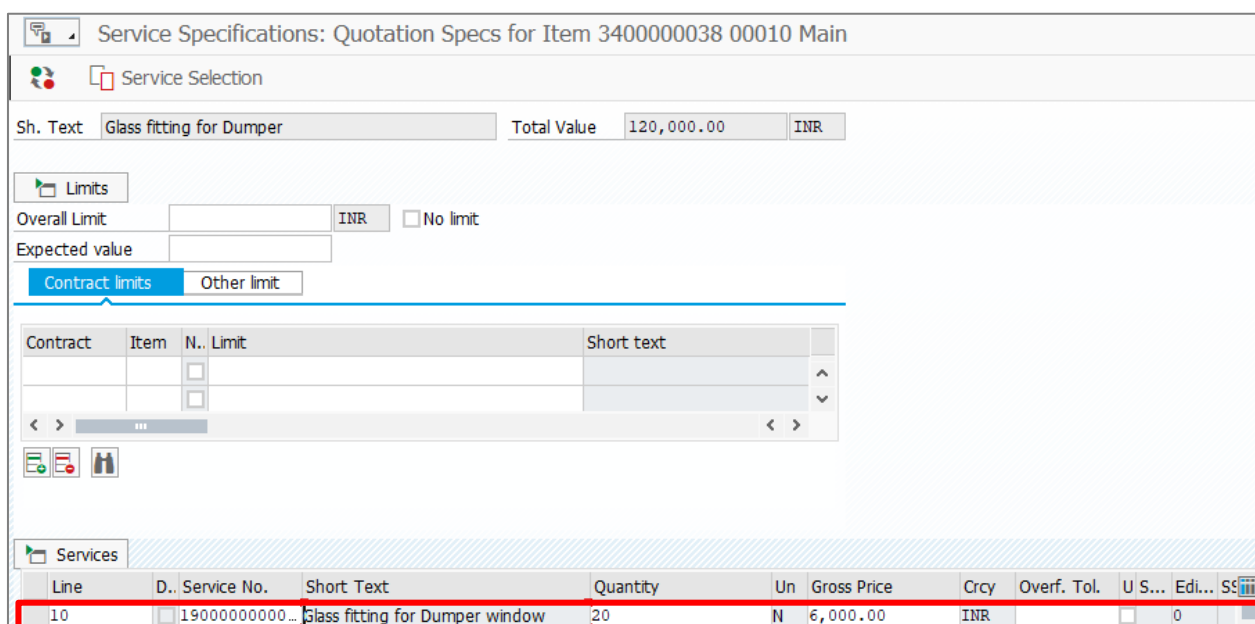
- I. Execute transaction code **ME47** from SAP command field.
- II. Click **Item** from the top menu bar.
- III. Click the **Services** option.



The screenshot shows the SAP Quotation screen. The 'Item' menu is open, and the 'Services' option is highlighted. The background shows the Quotation header and items table.

Item	Material	Short Text	RFQ Quantity	O...	C Deliv. Date	Net Price	Per	O...	Mat. Grp	Plnt	SLoc	D	R	T...
10		Glass fitting for Dumper	1	AU	D 31.07.2020	0.00		1	S00000002	9667				

- IV. Enter **Gross Price** for respective line item.
- V. Click the save button.



The screenshot shows the SAP Service Specifications screen. The 'Services' tab is active, displaying a table of service items. The first row is highlighted in red.

Line	D..	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Overf. Tol.	U S...	Edi...	SS
10		19000000000...	Glass fitting for Dumper window	20	N	6,000.00	INR			0	

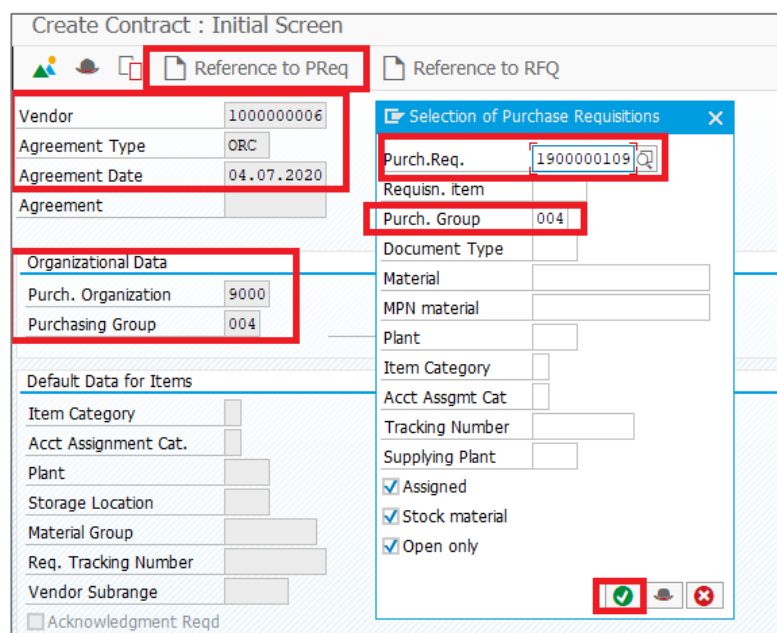
## Compare Quotation

- I. Execute transaction code **ME49** from SAP command field.

Price Comparison List in Currency INR			
<div> <span>Quotation</span> <span>Vendor</span> <span>Services</span> <span>Level 4</span> <span>Additional Info</span> </div>			
Material Mat. Group	Quot.:	3400000038	3400000037
Sh. Text	Bidder:	1000000006	1000000005
Qty. in Base Unit	Name:	BHARAT EARTH MOVI	Indian Railways
S00000002	Val.:	120,000.00	140,000.00
Glass fitting for Dump	Price:	120,000.00	140,000.00
Srv.Specs AU	Rank:	1 92 %	2 108 %
Total Quot.	Val.:	120,000.00	140,000.00
	Rank:	1 92 %	2 108 %

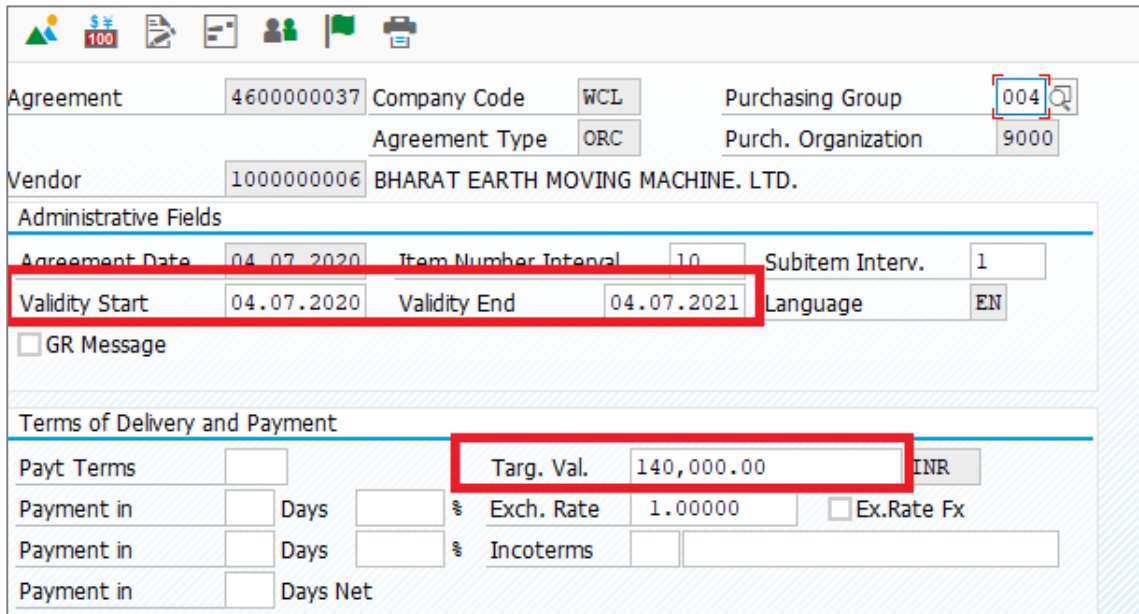
### Create Rate Contract w.r.t RFQ/Purchase Requisition

- I. Execute transaction code **ME31K** from SAP command field.
- II. Enter the following details:
  - Vendor
  - Purchasing Organization
  - Document/Agreement Type
  - Purchasing Group
  - Account Assignment Category
- III. Click on **Reference to PReq** button.
- IV. Enter the following details in the pop-up window:
  - Purchase Requisition Number
  - Purchase group number
- V. Click ok/continue button.



- VI. Enter **Validity Start** date and **Validity End** date.

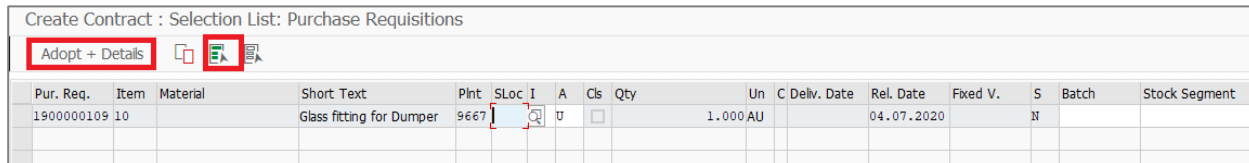
VII. Enter **Target Value**.



Agreement 4600000037 Company Code WCL Purchasing Group 004  
 Agreement Type ORC Purch. Organization 9000  
 Vendor 1000000006 BHARAT EARTH MOVING MACHINE. LTD.  
 Administrative Fields  
 Agreement Date 04.07.2020 Item Number Interval 10 Subitem Interv. 1  
 Validity Start 04.07.2020 Validity End 04.07.2021 Language EN  
☐ GR Message  
 Terms of Delivery and Payment  
 Payt Terms  Targ. Val. 140,000.00 INR  
 Payment in  Days  % Exch. Rate 1.00000 ☐ Ex.Rate Fx  
 Payment in  Days  % Incoterms   
 Payment in  Days Net

VIII. Click the select all button.

IX. Click the **Adopt + Details** button.

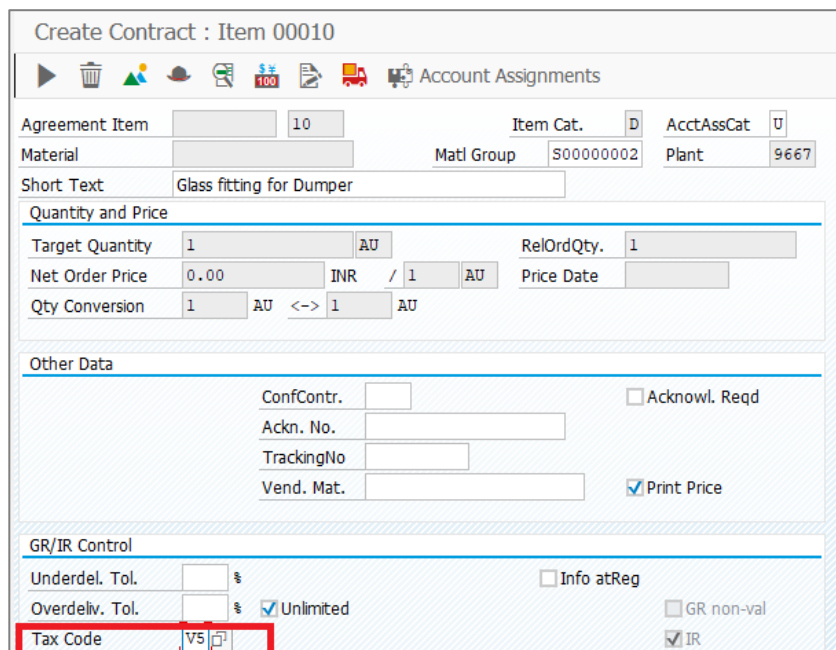


Create Contract : Selection List: Purchase Requisitions  
    

Pur. Req.	Item	Material	Short Text	Plnt	SLoc	I	A	Cl	Qty	Un	C Delv. Date	Rel. Date	Fixed V.	S	Batch	Stock Segment
1900000109	10		Glass fitting for Dumper	9667					1	AU		04.07.2020		N		

X. Enter **Tax Code**.

XI. Click the save button.

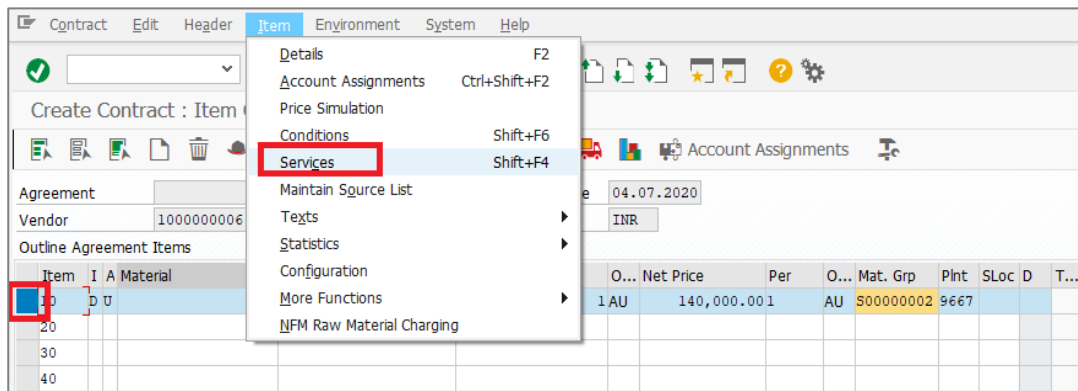


Create Contract : Item 00010  
 Account Assignments  
 Agreement Item 10 Item Cat. D AcctAssCat U  
 Material Matl Group S00000002 Plant 9667  
 Short Text Glass fitting for Dumper  
 Quantity and Price  
 Target Quantity 1 AU RelOrdQty. 1  
 Net Order Price 0.00 INR / 1 AU Price Date  
 Qty Conversion 1 AU <-> 1 AU  
 Other Data  
 ConfContr.  ☐ Acknowl. Reqd  
 Ackn. No.   
 TrackingNo   
 Vend. Mat.  ☒ Print Price  
 GR/IR Control  
 Underdel. Tol.  % ☐ Info atReg  
 Overdeliv. Tol.  % ☒ Unlimited ☐ GR non-val  
 Tax Code V5  ☒ IR

XII. Click **Item** on the menu bar.

XIII. Click the **Services** option to view service specifications.

XIV. Click the save button.



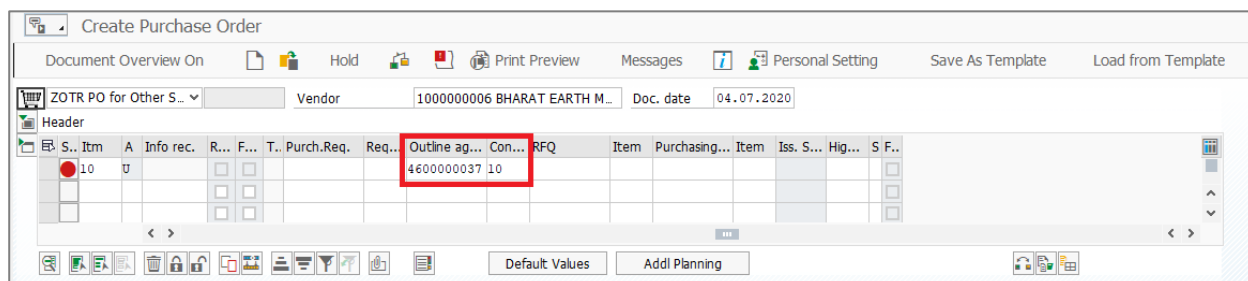
### Release Contract

- I. Execute transaction code **ME35K** from SAP command field.
- II. Enter **Release codes** as per the release strategy.
- III. Enter **Document Number**.

As per the release procedure all the authorities will release the Contract

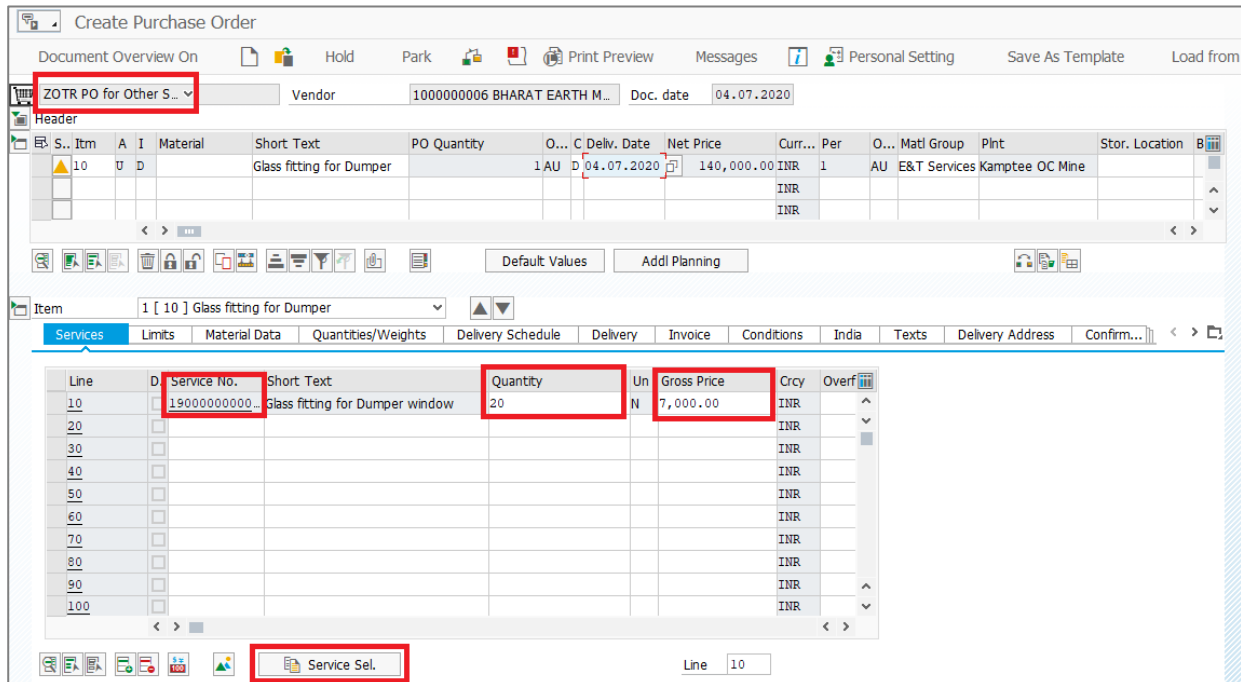
### Create Purchase Order w.r.t Contract

- I. Execute transaction code **ME21N** from SAP command field.
- II. Enter the following details:
  - Document Type – ZOTR
  - Contract Number
  - Quantity
  - Account Assignment Category
- III. Enter Outline agreement Number and item number.



IV. Adopt services from contract by clicking on **Service selection** tab.





The screenshot shows the SAP 'Create Purchase Order' interface. Key elements include:

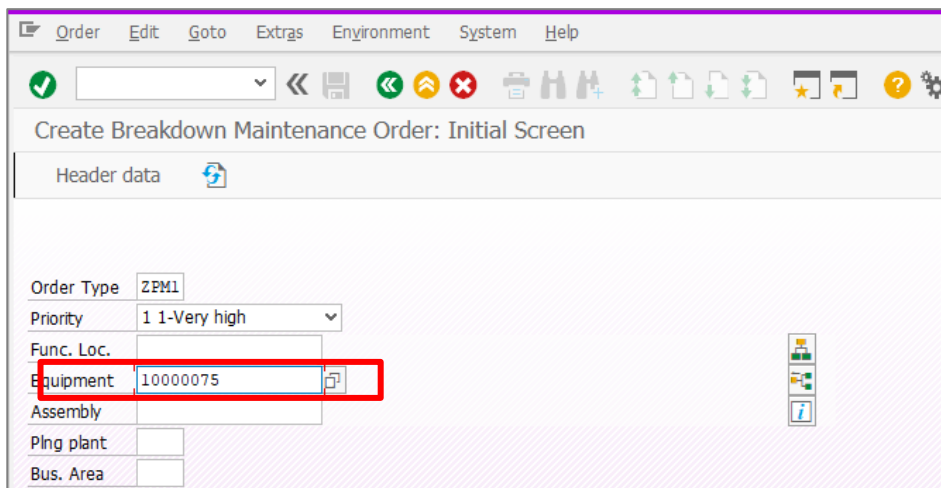
- Document Overview:** Includes buttons for Document Overview, Hold, Park, Print Preview, Messages, Personal Setting, Save As Template, and Load from.
- Header:** Shows 'ZOTR PO for Other S...' as the document type, 'Vendor' as '1000000006 BHARAT EARTH M...', and 'Doc. date' as '04.07.2020'.
- Table:** A table with columns: S., Itm, A, I, Material, Short Text, PO Quantity, O..., C, Deliv. Date, Net Price, Curr..., Per, O..., Matl Group, PInt, Stor. Location, B. The first row shows 'Glass fitting for Dumper' with a quantity of 1 and a net price of 140,000.00 INR.
- Item:** A dropdown menu showing '1 [ 10 ] Glass fitting for Dumper'.
- Services Tab:** A table with columns: Line, D, Service No., Short Text, Quantity, Un, Gross Price, Crpy, Overf. The first row shows 'Glass fitting for Dumper window' with a quantity of 20 and a gross price of 7,000.00 INR.
- Buttons:** 'Default Values' and 'Add Planning' are visible.
- Footer:** A 'Service Sel.' button is highlighted.

## Release Purchase Order

- I. Execute transaction code **ME29N** from AP command field.
  - II. Enter the Document Number.
- As per the release procedure all the authorities will release the PO.

## Create Maintenance Order w.r.t PO

- I. Execute transaction code **IW31** from SAP command field.
  - II. Enter **Equipment** number.
- User (Excavation Dept.) will create Maintenance Order as per the need on Technical Objects (Functional Location/Equipment).

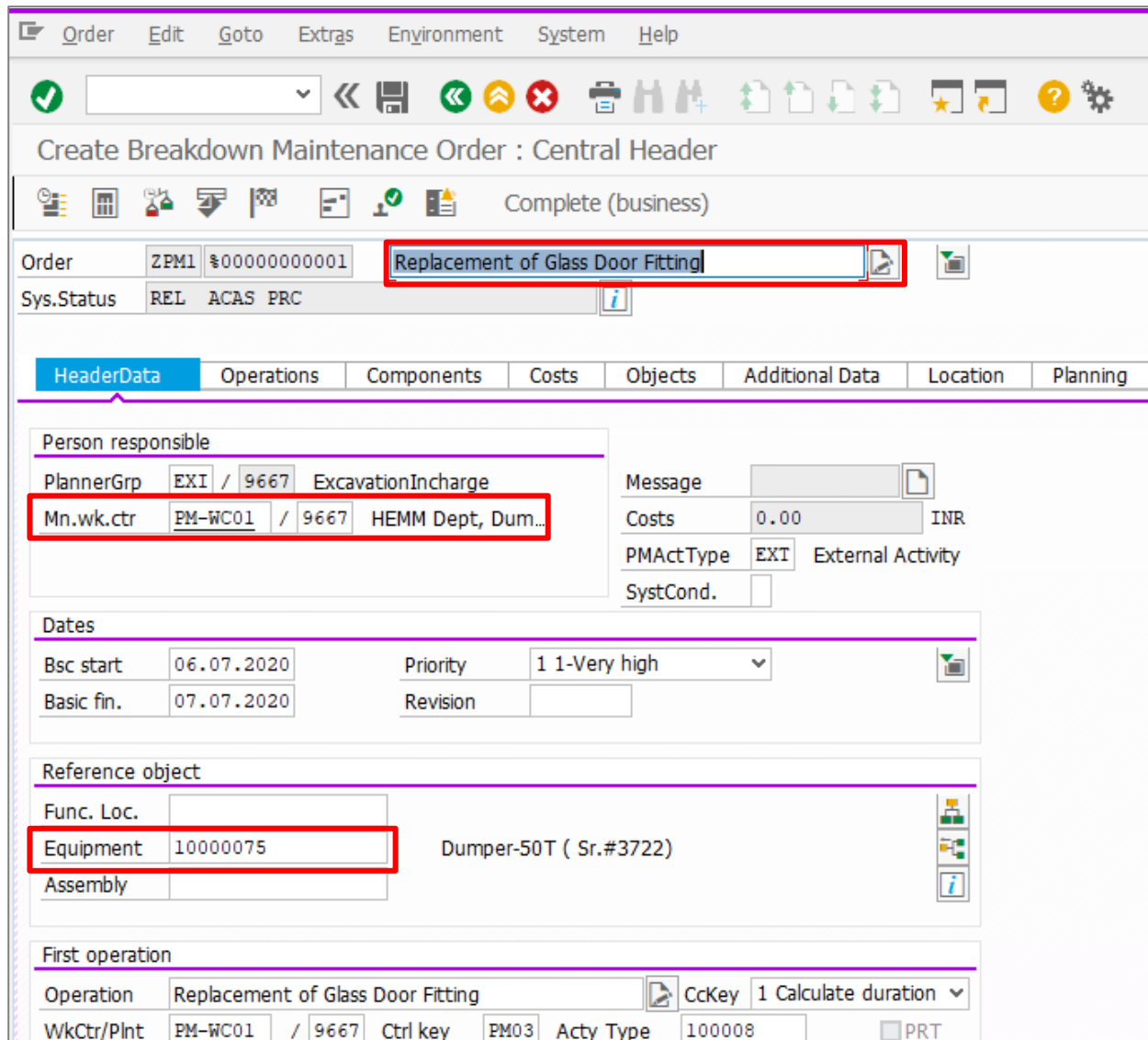


The screenshot shows the 'Create Breakdown Maintenance Order: Initial Screen' in SAP. Key elements include:

- Header data:** A section for entering maintenance order details.
- Order Type:** Set to 'ZPM1'.
- Priority:** Set to '1 1-Very high'.
- Func. Loc.:** A dropdown menu.
- Equipment:** A text field containing '10000075', which is highlighted with a red box.
- Assembly:** A text field.
- Plng plant:** A text field.
- Bus. Area:** A text field.

- III. Enter **Order** description.

- IV. Enter maintenance work center number.
- V. Enter **Equipment** number.
- VI. Click the save button.



Order: ZPM1 000000000001  
Sys.Status: REL ACAS PRC  
Description: Replacement of Glass Door Fitting

Person responsible:  
PlannerGrp: EXI / 9667  
Mn.wk.ctr: PM-WC01 / 9667  
ExcavationIncharge: HEMM Dept, Dum...

Dates:  
Bsc start: 06.07.2020  
Basic fin.: 07.07.2020  
Priority: 1 1-Very high

Reference object:  
Func. Loc.:  
Equipment: 10000075  
Assembly:  
Dumper-50T ( Sr.#3722)

First operation:  
Operation: Replacement of Glass Door Fitting  
WkCtr/Plnt: PM-WC01 / 9667  
Ctrl key: PM03  
Acty Type: 100008  
Cckey: 1 Calculate duration

- VII. Click the **Operations** tab.
- VIII. Enter **Operations Short Text**.

Order Edit Goto Extras Environment System Help

Create Breakdown Maintenance Order : Operation Overview

Order ZPM1 000000000001 Replacement of Glass Door Fitting

Sys.Status REL ACAS PRC

HeaderData **Operations** Components Costs Objects Additional Data Location Planning Control Enha

Act	SOP	Work Ctr	Plant	Co...	Operation short text	L...	Actual work	Work	Un	N...
0010		PM-WC01	9667	EM03	Replacement of Glass Door Fitting		0.0	0.0	HR	
0020		PM-WC01	9667	ZPMW			0.0		HR	

IX. Click the **External** tab.

X. Enter the following details:

- Material group number
- Purchase Group number
- Vendor number

XI. Click the save button.

Order Edit Goto Extras Environment System Help

Create Breakdown Maintenance Order : External Processing Operation

Order 000000000001 Activity 0010 / Ctrl key PM03

StdTextKey/ShrtText Replacement of Glass Door Fitting

General Internal **External** Dates Act. Data Enhancement Acct Assgt/Costs

Operation qty 1 AU Sort Term

Price 7,000.00 INR per 1

**Material Group** 000000002 **Cost Element**

**Purch. Group** 004 / 9000 **Vendor** 1000000006

Agreement / Info record

Recipient Unloading Point

Requisitioner Tracking Number

Pl. Deliv. Time Subcontr. FW Order 5700000046 / 10

Services Components Relationships

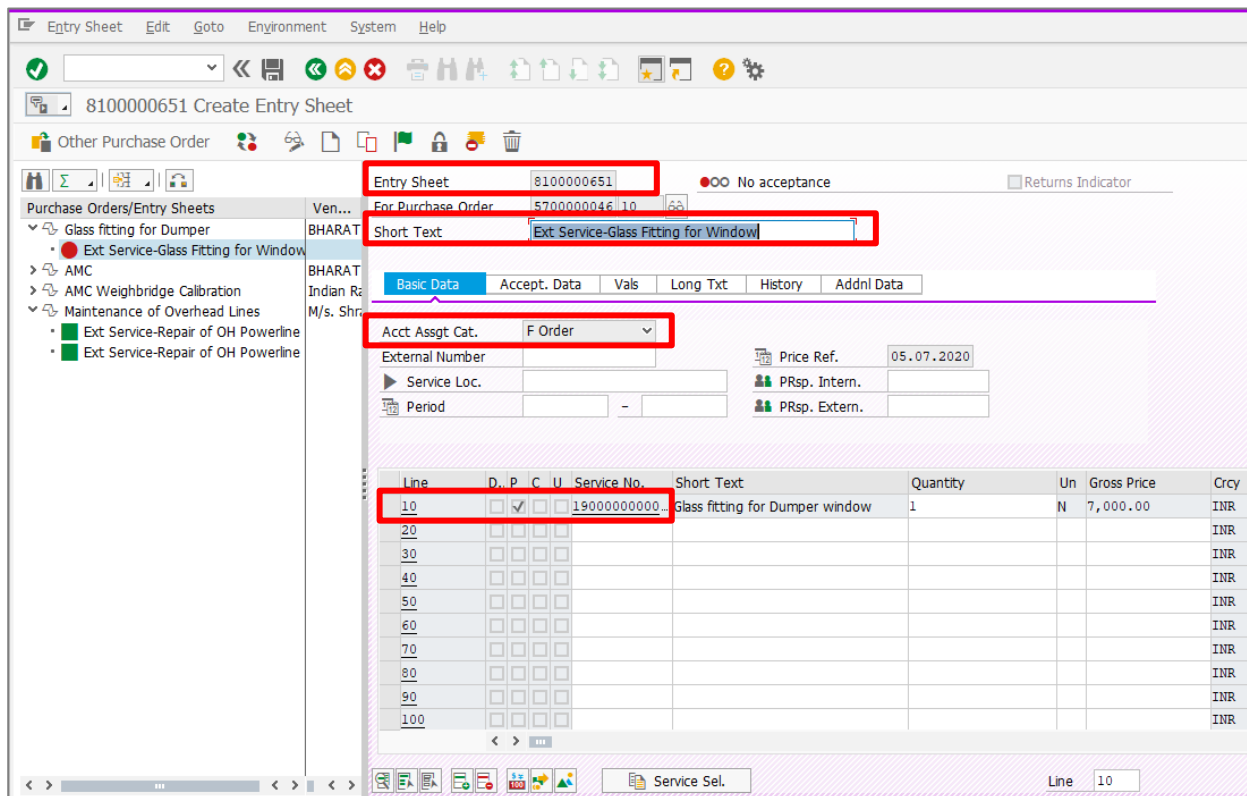
Line	D.. Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Overf. Tol.	U Cost Elem...
10	190000000000	Glass fitting for Dumper window	1	N	7,000.00	INR		40301000
20						INR		

Order is saved.

✓ Order saved with number 1000000607

## Create Service Entry Sheet

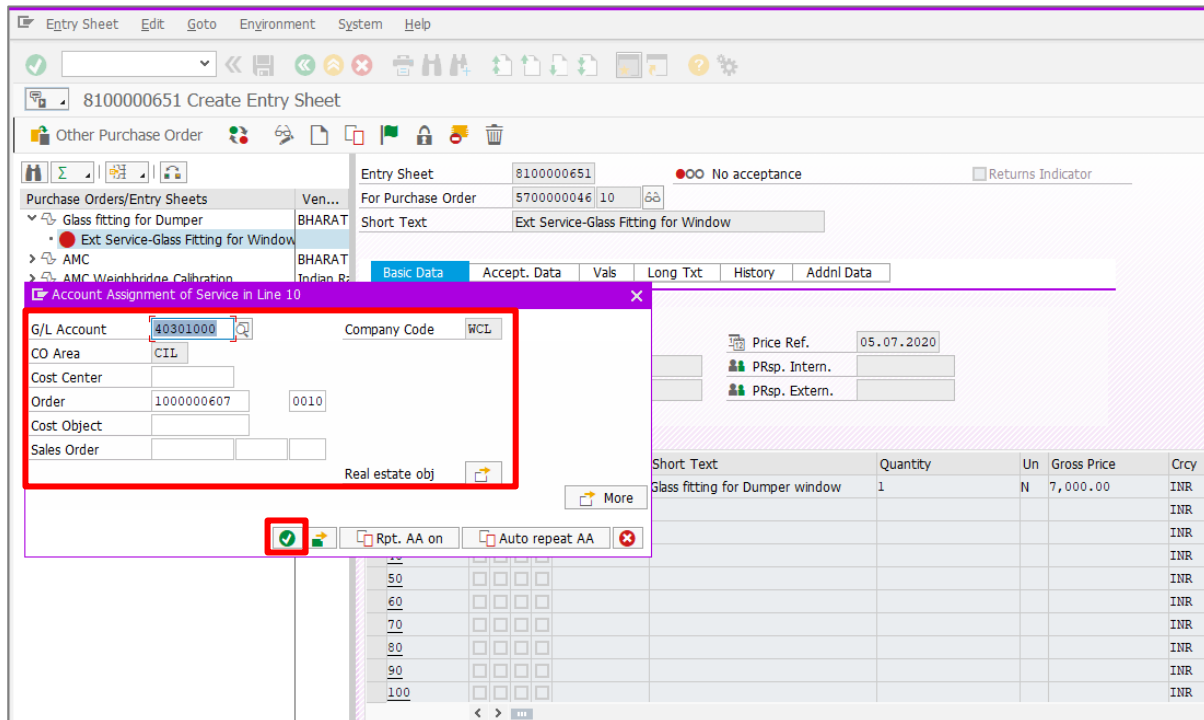
- I. Execute transaction code **ML81N** from SAP command field.
- II. Create service **Entry Sheet** number.
- III. Enter **Short Text**.
- IV. Select **Account Assignment Category** as 'F'.
- V. Click the Service number.



The screenshot displays the SAP 'Create Entry Sheet' (ML81N) interface. The 'Entry Sheet' field is populated with 8100000651. The 'Short Text' field contains 'Ext. Service-Glass Fitting for Window'. The 'Acct Assgt. Cat.' is set to 'F Order'. The first line item (Line 10) is highlighted, showing a service number of 190000000000 and a short text of 'Glass fitting for Dumper window'.

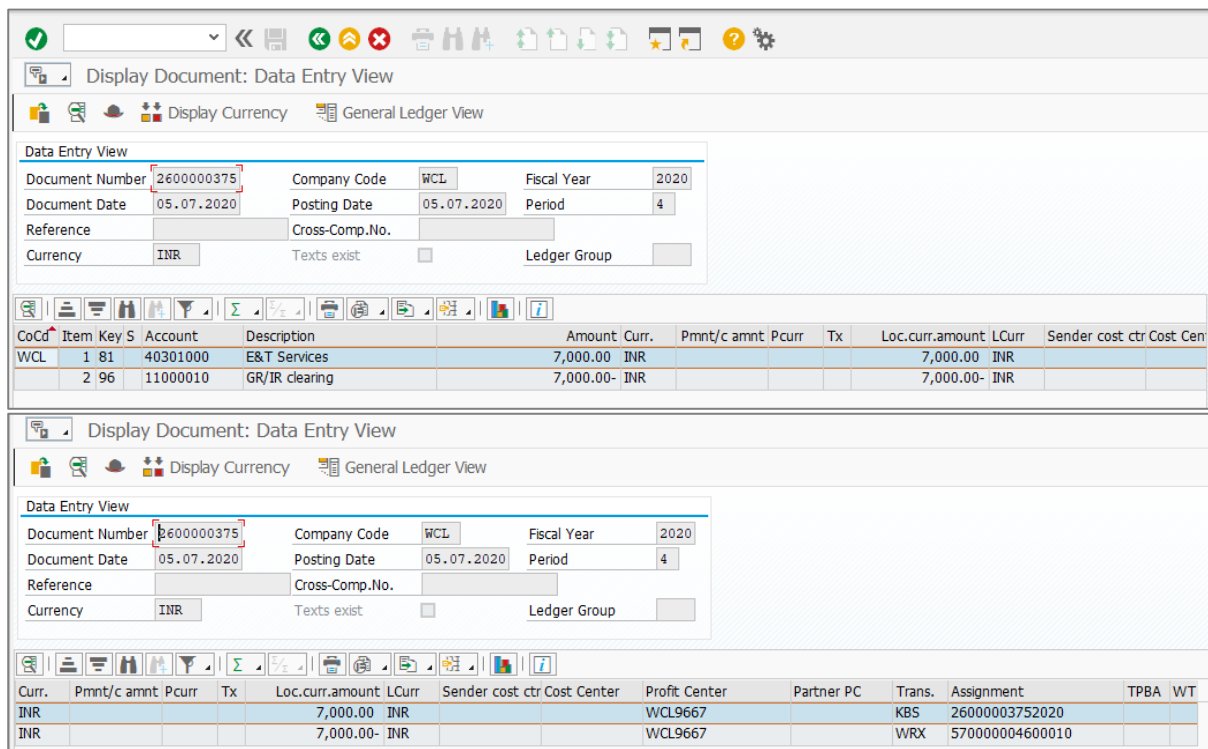
Line	D.	P.	C.	U.	Service No.	Short Text	Quantity	Un	Gross Price	Crcy
10					190000000000	Glass fitting for Dumper window	1	N	7,000.00	INR
20										INR
30										INR
40										INR
50										INR
60										INR
70										INR
80										INR
90										INR
100										INR

- VI. Enter **G/L Account** number.
- VII. Enter **Order** number.
- VIII. Click ok/continue button.



The screenshot shows the SAP 'Entry Sheet' interface. A pop-up window titled 'Account Assignment of Service in Line 10' is displayed, showing fields for G/L Account (40301000), Company Code (WCL), CO Area (CIL), Cost Center, Order (1000000607), Cost Object, and Sales Order. A red box highlights the G/L Account field. Below the pop-up, a table lists items with columns for Short Text, Quantity, Un, Gross Price, and Crpy. The first row shows 'Glass fitting for Dumper window' with a quantity of 1 and a gross price of 7,000.00 INR.

Check the item details.

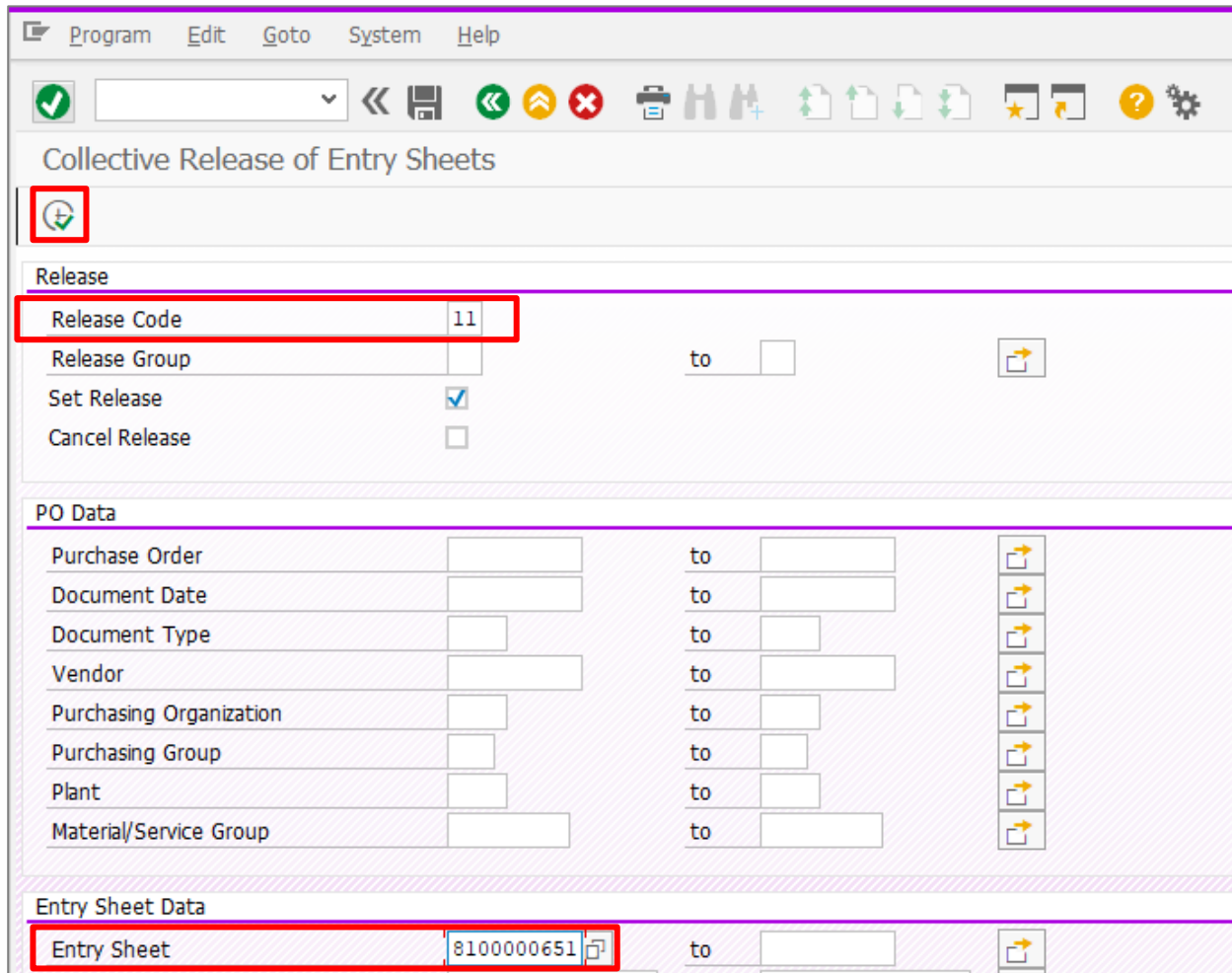


The first screenshot shows the 'Display Document: Data Entry View' for document number 2600000375. It displays fields for Document Number, Company Code (WCL), Fiscal Year (2020), Document Date (05.07.2020), Posting Date (05.07.2020), Period (4), Reference, Cross-Comp.No., Currency (INR), Texts exist (checkbox), and Ledger Group. Below this, a table shows transaction details with columns for CoCd, Item, Key S, Account, Description, Amount, Curr., Pmnt/c amt, Pcurr, Tx, Loc.curr.amount, LCurr, Sender cost ctr, and Cost Cen. The second screenshot shows the same view but with additional columns: Profit Center, Partner PC, Trans., Assignment, TPBA, and WT. The table shows two lines of transaction data.

## Release SES

- I. Execute transaction code **ML85** from SAP command field.
- II. Enter **Release Code** as per Release Strategy.
- III. Enter **Entry Sheet** number.

IV. Click the execute button.



Program Edit Goto System Help

Collective Release of Entry Sheets

Release

Release Code 11

Release Group to

Set Release ☒

Cancel Release ☐

PO Data

Purchase Order to

Document Date to

Document Type to

Vendor to

Purchasing Organization to

Purchasing Group to

Plant to

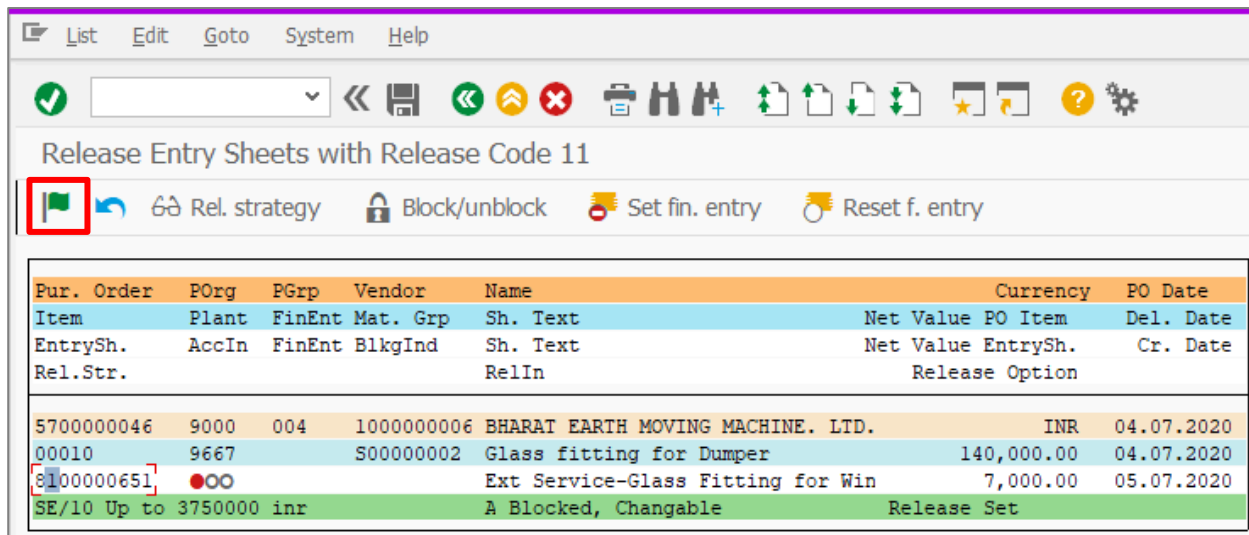
Material/Service Group to

Entry Sheet Data

Entry Sheet 8100000651 to

Release entry sheet is displayed.

V. Click the release button (green flag).



List Edit Goto System Help

Release Entry Sheets with Release Code 11

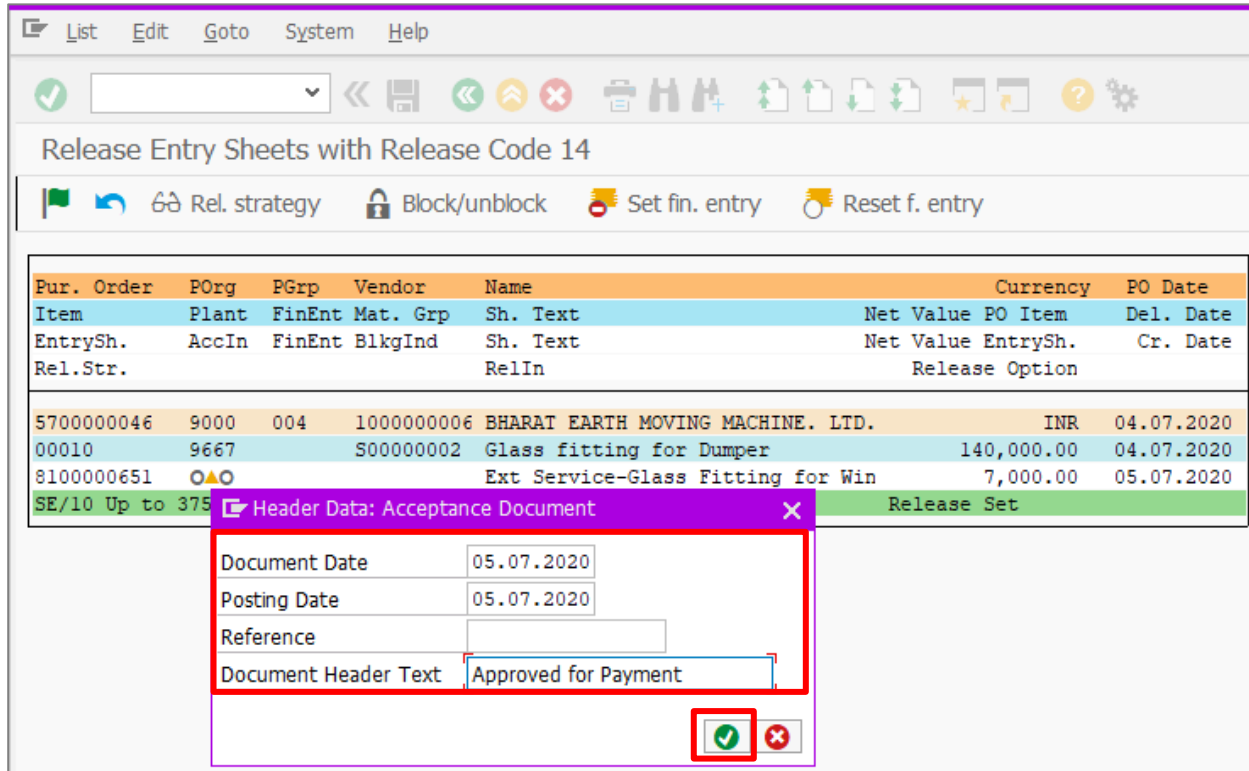
Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value	PO Item
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value	EntrySh.
Rel.Str.				RelIn		Release Option
5700000046	9000	004	10000000006	BHARAT EARTH MOVING MACHINE. LTD.	INR	04.07.2020
00010	9667		S000000002	Glass fitting for Dumper	140,000.00	04.07.2020
8100000651				Ext Service-Glass Fitting for Win	7,000.00	05.07.2020
SE/10 Up to 3750000	inr			A Blocked, Changable		Release Set

VI. Enter **Document Date** and **Posting Date**.

VII. Enter **Document Header Text**.

VIII. Click ok/continue button.



Release Entry Sheets with Release Code 14

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value	PO Item
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value	EntrySh.
Rel.Str.				RelIn		Release Option
5700000046	9000	004	1000000006	BHARAT EARTH MOVING MACHINE. LTD.	INR	04.07.2020
00010	9667		S000000002	Glass fitting for Dumper	140,000.00	04.07.2020
8100000651				Ext Service-Glass Fitting for Win	7,000.00	05.07.2020
SE/10 Up to 375						

Header Data: Acceptance Document

Document Date: 05.07.2020

Posting Date: 05.07.2020

Reference:

Document Header Text: Approved for Payment

Release Set

### Invoice Receipt against Service Entry Sheet

- I. Execute transaction code **MIRO** from SAP command field.
- II. Enter **Invoice Date**.
- III. Enter **Service Entry sheet** number.



Enter Incoming Invoice: Company Code WCL

Show PO structure Show worklist Hold Simulate

Transaction 1 Invoice  
Diff. Posting Not Applicable

Basic Data Payment Details Tax Withholding tax

Invoice date 05.07.2020  
Posting Date 05.07.2020  
Amount  
Tax Amount  
Bus.place/sectn /  
Other Details  
Baseline Date  
Company Code WCL Western Coalfields Ltd Nagpur

PO Reference G/L Account Material

4 Service Entry Sheet 8100000651

IV. Enter **Baseline Date**.

Basic Data Payment Details Tax Withholding tax

BaselineDt 05.07.2020  
Due on  
CashDiscnt INR  
Pmnt Terms Days  
Days  
Days net  
Fixed  
Pmnt Method Pmnt Block Free for payme...  
Inv.ref.  
Part. bank House bank /

V. Enter **Amount**.

VI. Enter **Bus.place/sectn** number.

VII. Click **Calculate tax** checkbox.

Enter Incoming Invoice: Company Code WCL

Show PO structure Show worklist Hold Simulate Messages Help NF

Transaction 1 Invoice Balance 0.00 INR

Diff. Posting Not Applicable

Basic Data Payment Details Tax Withholding tax

Invoice date 05.07.2020 Reference

Posting Date 05.07.2020

Amount 8,260.00 INR ☒ Calculate tax

Tax Amount 1,260.00

Bus.place/sectn WCMR / 9667

Other Details

Paymt terms Due immediately

Baseline Date 05.07.2020

Vendor 1000000006

BHARAT EARTH MOVING MACHINE. LTD.

33,CEMENT ROAD, SHIVAJI NAGAR

440010 NAGPUR

INDIA

Bank Key DUMMY

Bank acct 12345678901

DUMMY BK OI

PO Reference G/L Account Material

4 Service Entry Sheet 8100000651

Layout 13\_6310 All Information

Item	Amount	Quantity	O...	Purchase ...	Item	PO Text	Outline a
1	7,000.00			5700000046	10	Ext Service-Glass Fitting for Window	

Check the data entry details.

Display Document: Data Entry View

Taxes Display Currency General Ledger View

Data Entry View

Document Number 3200000085 Company Code WCL Fiscal Year 2020

Document Date 05.07.2020 Posting Date 05.07.2020 Period 4

Reference Cross-Comp.No.

Currency INR Texts exist Ledger Group

CoCd	Item	Key S	Account	Description	Amount	Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Cen
WCL	1	31	1000000006	BHARAT EARTH MOVING M...	8,260.00	INR			V5	8,260.00	INR		
	2	86	11000010	GR/IR clearing	7,000.00	INR			V5	7,000.00	INR		
	3	40	21400005	CGST ITC Receivable	630.00	INR			V5	630.00	INR		
	4	40	21400006	SGST ITC Receivable	630.00	INR			V5	630.00	INR		

Display Document: Data Entry View

Taxes Display Currency General Ledger View

Data Entry View

Document Number 3200000085 Company Code WCL Fiscal Year 2020

Document Date 05.07.2020 Posting Date 05.07.2020 Period 4

Reference Cross-Comp.No.

Currency INR Texts exist Ledger Group

Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Center	Profit Center	Partner PC	Trans.	Assignment	TPBA	WT
INR			V5	8,260.00	INR					KBS			
INR			V5	7,000.00	INR			WCL9667		WRX	570000004600010		
INR			V5	630.00	INR					JIC	20200705		
INR			V5	630.00	INR					JIS	20200705		

## Payment

I. Execute transaction code **F110** from SAP command field.

Use T-code FBL1N to open item balance.

**Vendor Line Item Display**

Vendor: 1000000006  
Company Code: WCL  
Name: BHARAT EARTH MOVING MACHINE. LTD.  
City: NAGPUR

St	Assignment	DocumentNo	Type	Doc. Date	S	DD	Amount in local cur.	LCurr	Clrng doc.	Other Details
<input type="checkbox"/>		3200000119	RE	29.07.2020			100,000.00-	INR		
<input type="checkbox"/>		3200000120	RE	29.07.2020			100,000.00-	INR		
<input type="checkbox"/>		3200000110	RE	28.07.2020			118,000.00-	INR		
<input type="checkbox"/>		3200000111	RE	28.07.2020			118,000.00-	INR		
<input type="checkbox"/>		3200000112	RE	28.07.2020			118,000.00-	INR		
<input type="checkbox"/>		3200000113	RE	28.07.2020			118,000.00-	INR		
<input type="checkbox"/>		3200000114	RE	28.07.2020			118,000.00-	INR		
<input type="checkbox"/>		3200000115	RE	28.07.2020			118,000.00-	INR		
<input type="checkbox"/>		3200000109	RE	27.07.2020			145,140.00-	INR		
<input type="checkbox"/>		3200000101	RE	25.07.2020			7,648.20-	INR		
<input type="checkbox"/>		3200000102	RE	25.07.2020			6,266.35-	INR		
<input type="checkbox"/>		3200000096	RE	22.07.2020			7,875.00-	INR		
<input type="checkbox"/>		3200000092	RE	17.07.2020			59,472.00-	INR		
<input type="checkbox"/>		3200000121	RE	17.07.2020			59,472.00-	INR		MR&M
<input type="checkbox"/>		3200000089	RE	15.07.2020			135,700.00-	INR		
<input type="checkbox"/>		3200000090	RE	15.07.2020			69,318.80-	INR		
<input type="checkbox"/>		3200000123	RE	15.07.2020			135,700.00-	INR		MR&M
<input type="checkbox"/>		3200000085	RE	05.07.2020			8,260.00-	INR		

II. Execute transaction code **F110** from SAP command field.

III. Enter **Run Date**.

**Automatic Payment Transactions: Status**

Status Proposal Payment Run

Run Date: 17.08.2020  
Identification: RCHS

Status Parameter Free selection Additional Log Printout/data medium

Status  
Parameters have been entered

IV. Click the **Parameter** tab.

V. Enter the following details:

- Posting Date
- Docs entered up to date.

- Enter Company code where payment needs to generate

**Automatic Payment Transactions: Parameters**

B.ex./pmt request...

Run Date: 17.08.2020  
Identification: RCHS

Posting Date: 17.08.2020      Docs entered up to: 17.08.2020  
 Customer items due by:

Payments control

Company codes	Pmt meths	Next p/date
WCL	T	18.08.2020

Accounts

Vendor: 1000000006 to

- VI. Click Free Selection tab.
- VII. Enter invoice document number in **Values** field.

**Automatic Payment Transactions: Free Selection**

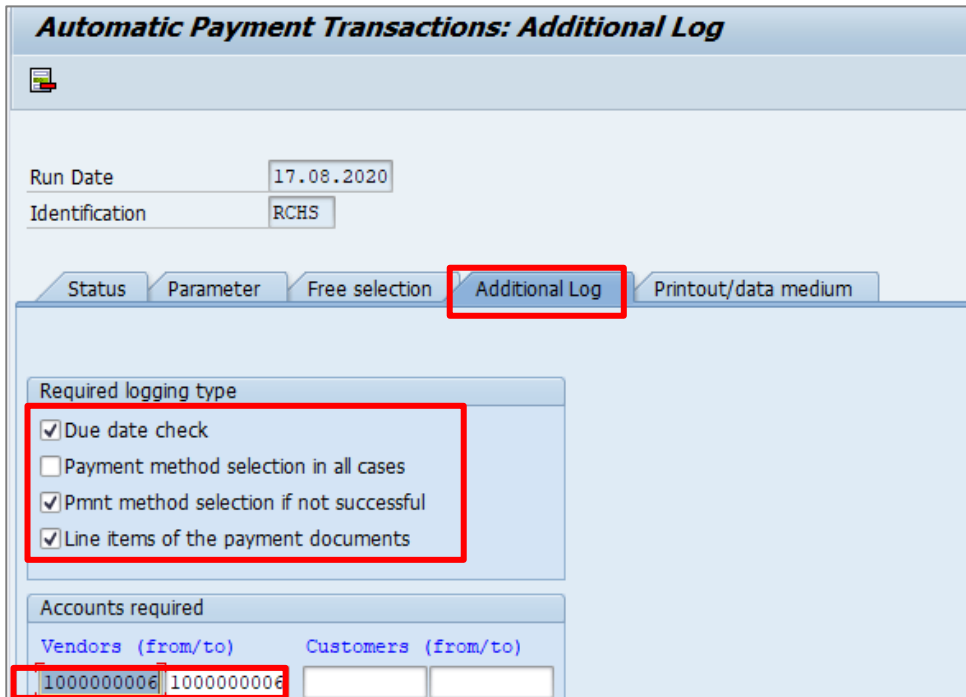
Run Date: 17.08.2020  
Identification: RCHS

Selection criteria

Field Name	Document Number	Exclude values
Values	3200000085	<input type="checkbox"/>

- VIII. Click the **Additional Log** tab.
- IX. Click the applicable parameters.

X. Enter **Vendor** number to who you want to pay.



**Automatic Payment Transactions: Additional Log**

Run Date: 17.08.2020  
Identification: RCHS

Tab: **Additional Log**

Required logging type:

- ☒ Due date check
- ☐ Payment method selection in all cases
- ☒ Prmnt method selection if not successful
- ☒ Line items of the payment documents

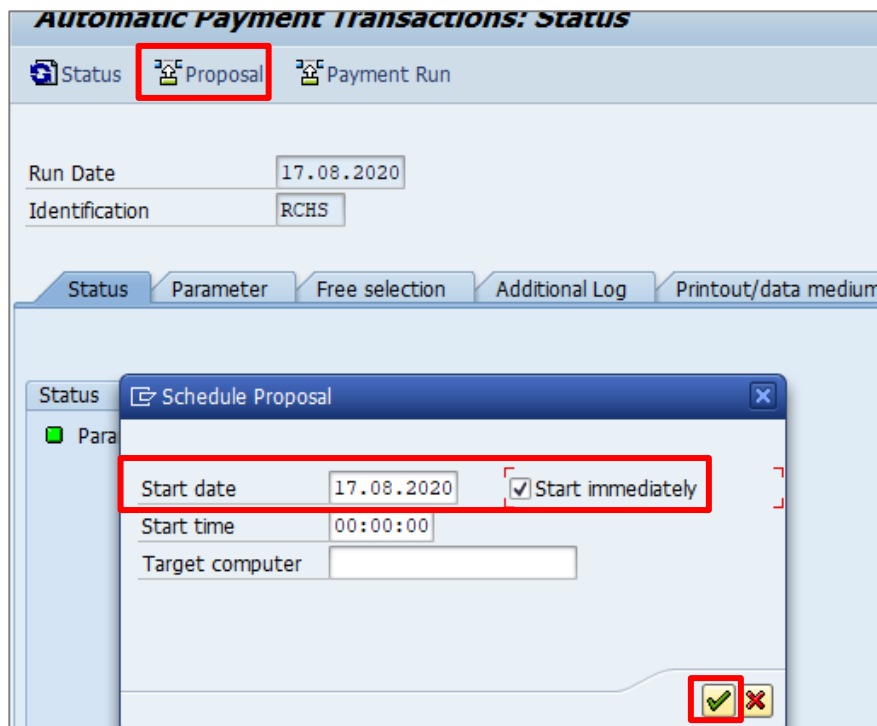
Accounts required:

Vendors (from/to): 10000000006

XI. Click the **Proposal** button at the top.

XII. Enter **Start date**.

XIII. Click **Start Immediately** check box if you want to pay immediately.



**Automatic Payment Transactions: Status**

Buttons: Status, **Proposal**, Payment Run

Run Date: 17.08.2020  
Identification: RCHS

Tab: **Status**

Dialog: Schedule Proposal

Start date: 17.08.2020 ☒ Start immediately

Start time: 00:00:00

Target computer:

Buttons: [OK] [Cancel]

Check the proposal log.

**Job Log Entries for F110-20200817-RCHS -X / 10502800**

Job log overview for job: F110-20200817-RCHS -X / 10502800

Date	Time	Message text	Message class	Message no.	Message type
17.08.2020	10:50:28	Job started	00	516	S
17.08.2020	10:50:28	Step 001 started (program SAPF110S, variant 40000000000185, user ID SS595560)	00	550	S
17.08.2020	10:50:28	Log for proposal run for payment on 17.08.2020, identification RCHS	FZ	402	S
17.08.2020	10:50:28	>	FZ	693	S
17.08.2020	10:50:28	> Additional log for vendor 1000000006 company code WCL	FZ	691	S
17.08.2020	10:50:28	>	FZ	693	S
17.08.2020	10:50:28	> Due date determination additional log	FZ	799	S
17.08.2020	10:50:28	> Document 3200000085 line item 001 via INR 8,260.00-	FZ	700	S
17.08.2020	10:50:28	> Terms of payment: 05.07.2020 0 0.000 % 0 0.000 % 0	FZ	701	S
17.08.2020	10:50:28	> 00 days grace period is being considered	FZ	726	S
17.08.2020	10:50:28	> Payment must take place before 05.07.2020; next payment on 18.08.2020	FZ	728	S
17.08.2020	10:50:28	> Item is due with 0.000 % cash discount	FZ	721	S
17.08.2020	10:50:28	>	FZ	693	S
17.08.2020	10:50:28	> Posting documents additional log	FZ	798	S
17.08.2020	10:50:28	> Document F110000001 company code WCL currency INR payment method T	FZ	741	S
17.08.2020	10:50:28	> Lit PK Acct RA Amount Tax	FZ	743	S
17.08.2020	10:50:28	>	FZ	744	S
17.08.2020	10:50:28	> 001 25 1000000006 8,260.00 0.00	FZ	744	S
17.08.2020	10:50:28	> 002 50 0021001392 8,260.00 0.00	FZ	744	S
17.08.2020	10:50:28	>	FZ	744	S
17.08.2020	10:50:28	End of log	FZ	398	S
17.08.2020	10:50:28	Job finished	00	517	S

XIV. Click the **Payment Run** button.

XV. Enter **Start date**.

XVI. Click **Start Immediately** box.

**Automatic Payment Transactions: Status**

Status **Payment Run** Proposal Proposal Proposal

Run Date: 17.08.2020  
Identification: RCHS

Status Parameter Free selection Additional Log Printout/data medium

**Schedule Payment**

Start date: 17.08.2020 ☒ Start immediately

Start time: 00:00:00

Target computer:

☒ ☐

Payment document is generated. Check the log.

### Automatic Payment Transactions: Status

Status
 Payment
 Proposal
 Proposal
 Printout

Run Date: 17.08.2020

Identification: OTR

Status    Parameter    Free selection    Additional Log    Printout/data medium

**Status**

- ☒ Parameters have been entered
- ☒ Payment proposal has been created
- ☒ Payment run has been carried out

Check log entries.

### Job Log Entries for F110-20200817-RCHS / 10514600

Long text
 Previous Page
 Next page

Job log overview for job: F110-20200817-RCHS / 10514600

Date	Time	Message text	Message class	Message no.	Message type
17.08.2020	10:51:46	Job started	00	516	S
17.08.2020	10:51:46	Step 001 started (program SAPF110S, variant s00000000000186, user ID SS595560)	00	550	S
17.08.2020	10:51:46	Log for payment run for payment on 17.08.2020, identification RCHS	FZ	401	S
17.08.2020	10:51:46	>	FZ	693	S
17.08.2020	10:51:46	> Additional log for vendor 1000000006 company code WCL	FZ	691	S
17.08.2020	10:51:46	>	FZ	693	S
17.08.2020	10:51:46	> Posting documents additional log	FZ	798	S
17.08.2020	10:51:46	> Document 2000000036 company code WCL currency INR payment method T	FZ	741	S
17.08.2020	10:51:46	> Lit PK Acct RA Amount Tax	FZ	743	S
17.08.2020	10:51:46	>	FZ	744	S
17.08.2020	10:51:46	> 001 25 1000000006 8,260.00 0.00	FZ	744	S
17.08.2020	10:51:46	> 002 50 0021001392 8,260.00 0.00	FZ	744	S
17.08.2020	10:51:46	>	FZ	744	S
17.08.2020	10:51:46	End of log	FZ	398	S
17.08.2020	10:51:46	Job finished	00	517	S

Payment run executed and payment has been made. Check the cleared item in FBL1N transaction code.

### Vendor Line Item Display

Selections
 Dispute Case

Vendor: 1000000006  
 Company Code: WCL  
 Name: BHARAT EARTH MOVING MACHINE. LTD.  
 City: NAGPUR

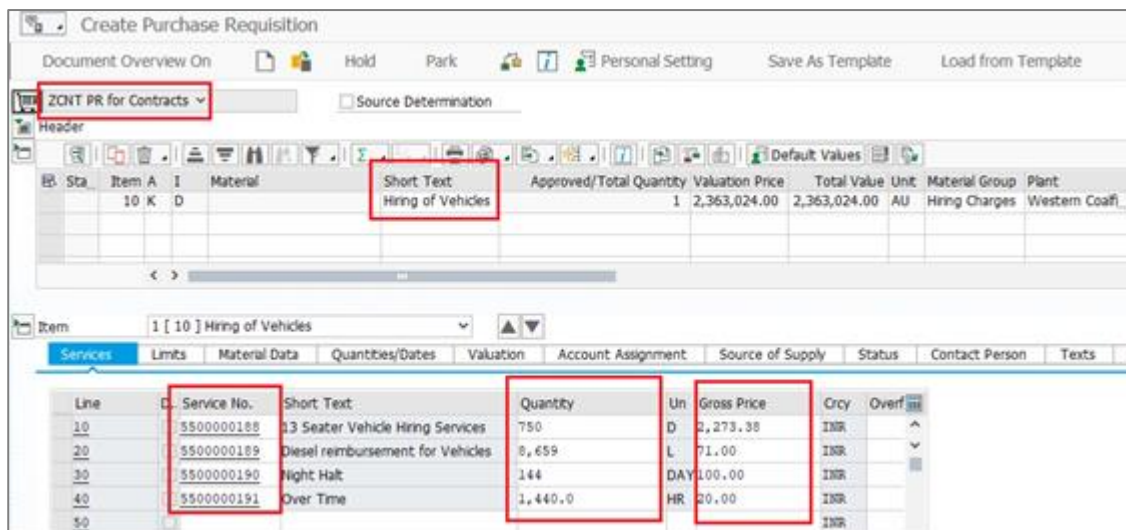
St	Assignment	DocumentNo	Type	Doc. Date	S	DD	Amount in local cur.	LCurr	Clrng doc.	Other Details
		2000000035	ZP	17.08.2020			13,570.00	INR	2000000035	
		2000000036	ZP	17.08.2020			8,260.00	INR	2000000036	



## Hiring of Vehicles against Rate Contract

### Create Purchase Requisition (PR)

- I. Execute transaction code **ME51N** from SAP command field.
- II. Select Document Type as ZCNT.
- III. Enter the following details:
  - Account Assignment Category
  - Item Category
  - Purchase Group
  - Short Text
  - Select Service Number
  - Contract duration
  - Plant



Line	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Overl
10	5500000188	13 Seater Vehicle Hiring Services	750	D	2,273.38	INR	
20	5500000189	Diesel reimbursement for Vehicles	8,659	L	71.00	INR	
30	5500000190	Night Halt	144	DAY	100.00	INR	
40	5500000191	Over Time	1,440.0	HR	20.00	INR	

### Release Purchase Requisition

- I. Execute transaction code **ME54N** from SAP command field.  
Relevant information from PR will be exported to e-procurement Portal.  
Bidding process @ Subsidiary HQ level with relevant information from purchase requisition.

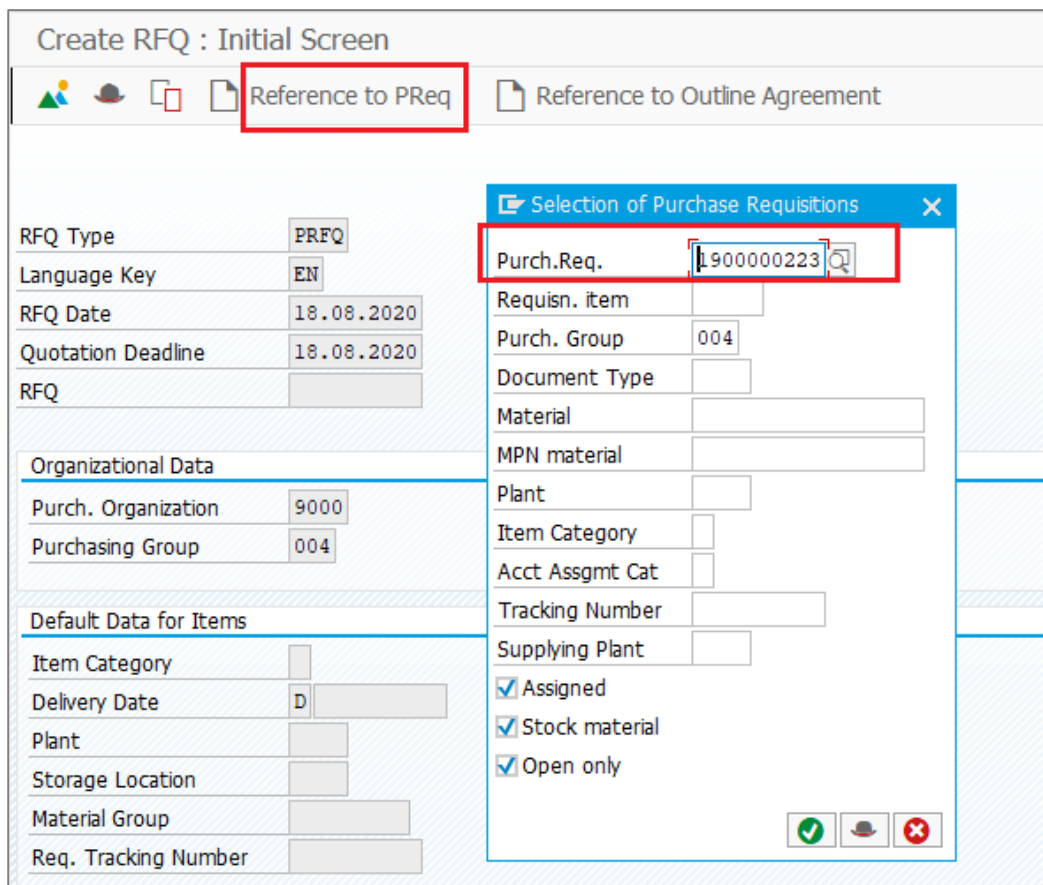
### Create RFQ

- I. Execute transaction code **ME41** from SAP command field.
- II. Enter the following details:
  - Doc Type
  - Quotation Deadline
  - Purchase Requisition number

- Purchasing Organization
- Purchase Grp

- III. Click **Reference to PReq** button.
- IV. Enter **Purchase Requisition** number.
- V. Click ok/continue button.

Post bidding process, import relevant information from E Procurement Portal to SAP RFQ and RFQ document will be created automatically in the background.



**Create RFQ : Initial Screen**

Reference to PReq | Reference to Outline Agreement

RFQ Type: PRFQ  
Language Key: EN  
RFQ Date: 18.08.2020  
Quotation Deadline: 18.08.2020  
RFQ:

**Organizational Data**

Purch. Organization: 9000  
Purchasing Group: 004

**Default Data for Items**



Item Category:   
Delivery Date: D   
Plant:   
Storage Location:   
Material Group:   
Req. Tracking Number:

**Selection of Purchase Requisitions**

Purch. Req.: 1900000223  
Requisn. item:   
Purch. Group: 004  
Document Type:   
Material:   
MPN material:   
Plant:   
Item Category:   
Acct Assgmt Cat:   
Tracking Number:   
Supplying Plant:   
☒ Assigned  
☒ Stock material  
☒ Open only

- VI. Click the select all button.
- VII. Click the **Adopt + Details** button.

**Create RFQ : Selection List: Purchase Requisitions**

Adopt + Details |  

Pur. Req.	Item	Material	Short Text	Plnt	SLoc	I	A	Cls	Qty	Un	C Deliv. Date	Rel. Date	Fixed V.	S	Batch	Stock Segment
1900000223	10		Hiring of Vehicles	9001			K			1.000 AU		18.08.2020		N		

- VIII. Click Vendor Address button.

Create RFQ : Item Overview

RFQ: [ ] Vendor Address (F7): [ ] RFQ Date: 18.08.2020  
Vendor: [ ] QuotDdn: 18.08.2020

RFQ Items

Item	I	Material	Short Text	RFQ Quantity	O...	C Deliv. Date	Mat. Grp	Plnt	SLoc	D	T...
10	D		Hiring of Vehicles	1 AU	D	31.08.2020	S00000017	9001			

## Maintain Quotation

- I. Execute transaction code **ME47** from SAP command field.  
Quotation of different bidders should be maintained. This step is also handled automatically in the background.
- II. Select a quotation item from the list.
- III. Click the **Item** option from the top menu bar.
- IV. Click **Services** option.

Quotation Edit Header **Item** Environment System Help

Maintain Quotation

RFQ: 3400000049 Vendor: 1000000149

Quotation Items

Item	Material	Short Text	RFQ Quantity	O...	C Deliv. Date	Net Price	Per	O...	Mat. Grp	Plnt	SLoc	D	R	T...
10		Hiring of Vehicles	1	AU	D 31.08.2020	0.00		1 AU	S00000017	9001				

- V. Enter **Gross Prices**.

Service Specifications: Quotation Specs for Item 3400000049 00010 Main

Service Selection

Sh. Text  Total Value  INR

Limits

Overall Limit  INR ☐ No limit

Expected value

Contract limits ☒ Other limit ☐

Contract	Item	N.. Limit	Short text
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Services



Line	D.. Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Overf. Tol.	U S...	Edi...	SS
10	<input type="checkbox"/> 5500000188	13 Seater Vehicle Hiring Services	750	D	2,273.38	INR		<input type="checkbox"/>	0	
20	<input type="checkbox"/> 5500000189	Diesel reimbursement for Vehicles	8,659	L	71.00	INR		<input type="checkbox"/>	0	
30	<input type="checkbox"/> 5500000190	Night Halt	144	DAY	100.00	INR		<input type="checkbox"/>	0	
40	<input type="checkbox"/> 5500000191	Over Time	1,440.0	HR	20.00	INR		<input type="checkbox"/>	0	
50	<input type="checkbox"/>					INR		<input type="checkbox"/>		
60	<input type="checkbox"/>					INR		<input type="checkbox"/>		

## Compare Quotation


Transaction code: ME49


This step is created automatically by SAP ECC in the background


Price Comparison List


 

Purchasing Organization

Quotation  to  

Collective RFQ  to  

Vendor  to  

Material  to  

Comparison Values





Reference Quotation

☐ Mean Value Quotation

☐ Minimum Value Quotation

Percentage Basis



Max. No. Quotations per Page

Price Comparison List in Currency INR			
 Quotation  Vendor  Services  Level 4			
Material Mat. Group	Quot.:	3400000049	3400000048
Sh. Text	Bidder:	1000000149	1000000006
Qty. in Base Unit	Name:	M/s. Shraddha Ent	BHARAT EARTH MOVI
S00000017	Val.:	2,363,024.00	2,379,809.00
Hiring of Vehicles	Price:	2,363,024.00	2,379,809.00
Srv.Specs AU	Rank:	1 100 %	2 100 %
Total Quot.	Val.:	2,363,024.00	2,379,809.00
	Rank:	1 100 %	2 100 %

### Create Rate Contract w.r.t RFQ

- I. Execute transaction code **ME31K** from SAP command field.
- II. Enter the following details:
  - Purchasing Organization
  - Document/Agreement Type
  - RFQ No.
  - Validity of the Rate Contract
  - Target Value
  - Purchasing Group
- III. Enter necessary details and click on **Reference to RFQ**.
- IV. Enter **RFQ** number.

**Create Contract : Initial Screen**

 Reference to PReq
  Reference to RFQ

Vendor   
 Agreement Type   
 Agreement Date   
 Agreement

**Organizational Data**  
 Purch. Organization   
 Purchasing Group

**Default Data for Items**  
 Item Category   
 Acct Assignment Cat.

**Reference to RFQ**  
 RFQ   
 From RFQ item   
 To RFQ item

☐ ☐ ☐

- V. Enter **Validity Start** and **Validity End** dates.
- VI. Enter **Target Value**.

**Create Contract : Header Data**

Agreement  Company Code  Purchasing Group   
 Agreement Type  Purch. Organization   
 Vendor  M/s. Shraddha Enterprises

**Administrative Fields**

Agreement Date  Item Number Interval  Subitem Interv.   
 Validity Start  Validity End  Language   
☐ GR Message




**Terms of Delivery and Payment**

Payt Terms  Targ. Val.  INR  
 Payment in  Days  % Exch. Rate  ☐ Ex.Rate Fx  
 Payment in  Days  % Incoterms   
 Payment in  Days Net

VII. Click on select all.

VIII. Click **Adopt + Details** button.

**Create Contract : Overview: Reference Document Items**

**Adopt + Details**   

Reference Doc.  Ref. Doc. Type  Doc. Date   
 Vendor  M/s. Shraddha Enterprises Currency

**Reference Items**

Item	Material	Short Text	Plnt	SLoc	A	Qty	O... Net Price	Per	O... Mat. Grp	D	I	Stock Segment
10		Hiring of Vehicles	9001			1	AU 2,363,024.00	1	AU S00000017		D	

Details are displayed.

**Create Contract : Item Overview**

Agreement  Agreement Type  Agmt Date   
 Vendor  M/s. Shraddha Enterprises Currency

**Outline Agreement Items**

Item	I	A	Material	Short Text	Targ. Qty	O... Net Price	Per	O... Mat. Grp	Plnt	SLoc	D	T...
10		D K		Hiring of Vehicles	1	AU 2,363,024.00	1	AU S00000017	9001			
20												
30												
40												

## **Release Contract**

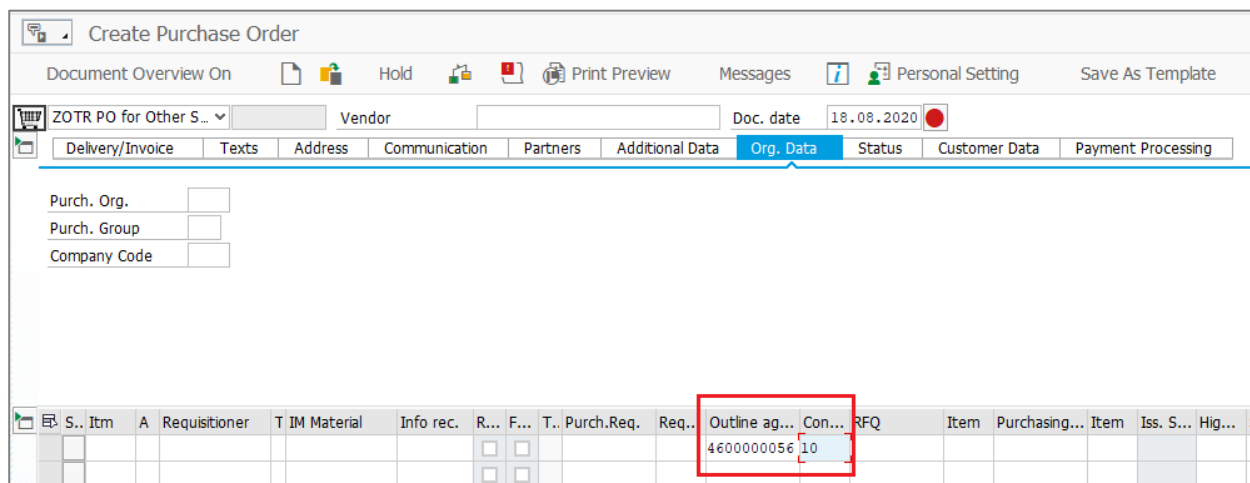
Transaction code: ME35K

Release codes as per the release strategy.

As per the release procedure all the authorities will release the Contract.

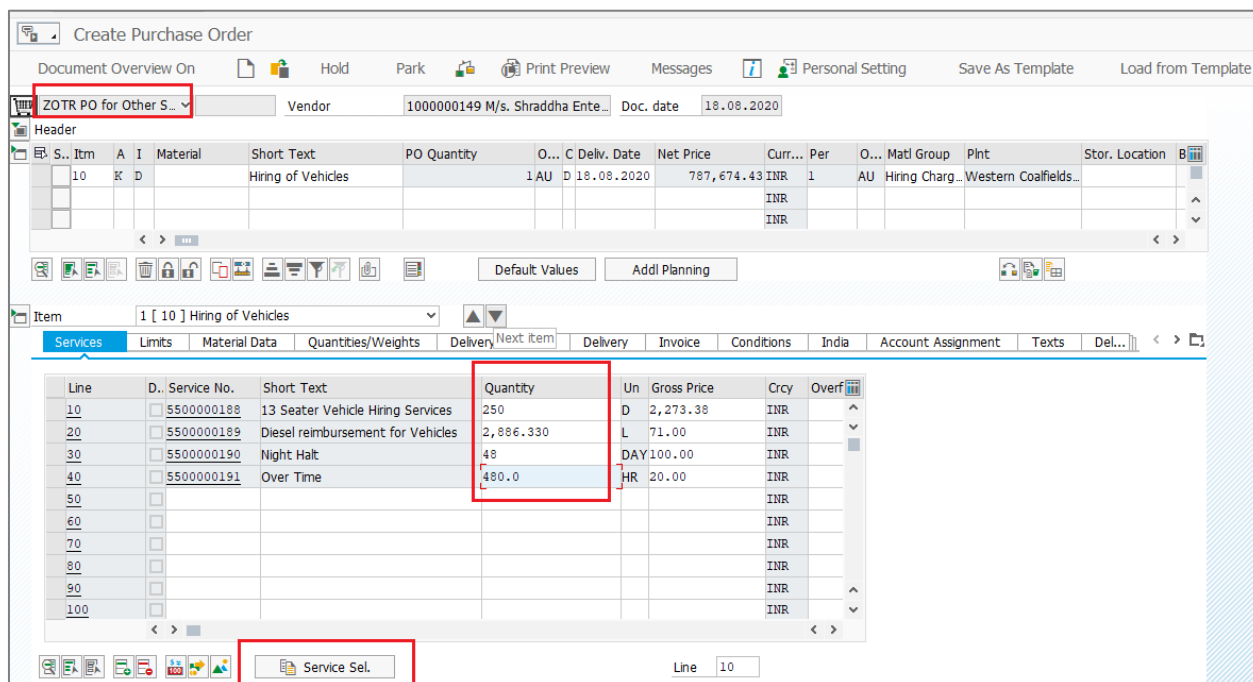
### Create Purchase Order w.r.t Contract

- I. Execute transaction code **ME21N** from SAP command field.
- II. Enter the following details:
  - Document Type
  - Contract Number
  - Quantity



The screenshot shows the 'Create Purchase Order' SAP screen. The 'Doc. date' is set to 18.08.2020. The 'Org. Data' tab is selected, showing fields for 'Purch. Org.', 'Purch. Group', and 'Company Code'. The 'Outline ag...' field is highlighted with a red box, showing the value '4600000056'.

- III. Click On **Service Selection** tab to adapt services. Enter Qty for 1 year.



The screenshot shows the 'Create Purchase Order' SAP screen with the 'Services' tab selected. The 'Item' is '1 [ 10 ] Hiring of Vehicles'. The 'Quantity' field is highlighted with a red box, showing the value '250'. The 'Service Sel.' button is also highlighted with a red box.

Line	D.. Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Overf
10	5500000188	13 Seater Vehicle Hiring Services	250	D	2,273.38	INR	
20	5500000189	Diesel reimbursement for Vehicles	2,886.330	L	71.00	INR	
30	5500000190	Night Halt	48	DAY	100.00	INR	
40	5500000191	Over Time	480.0	HR	20.00	INR	
50						INR	
60						INR	
70						INR	
80						INR	
90						INR	
100						INR	

### Release Purchase Order

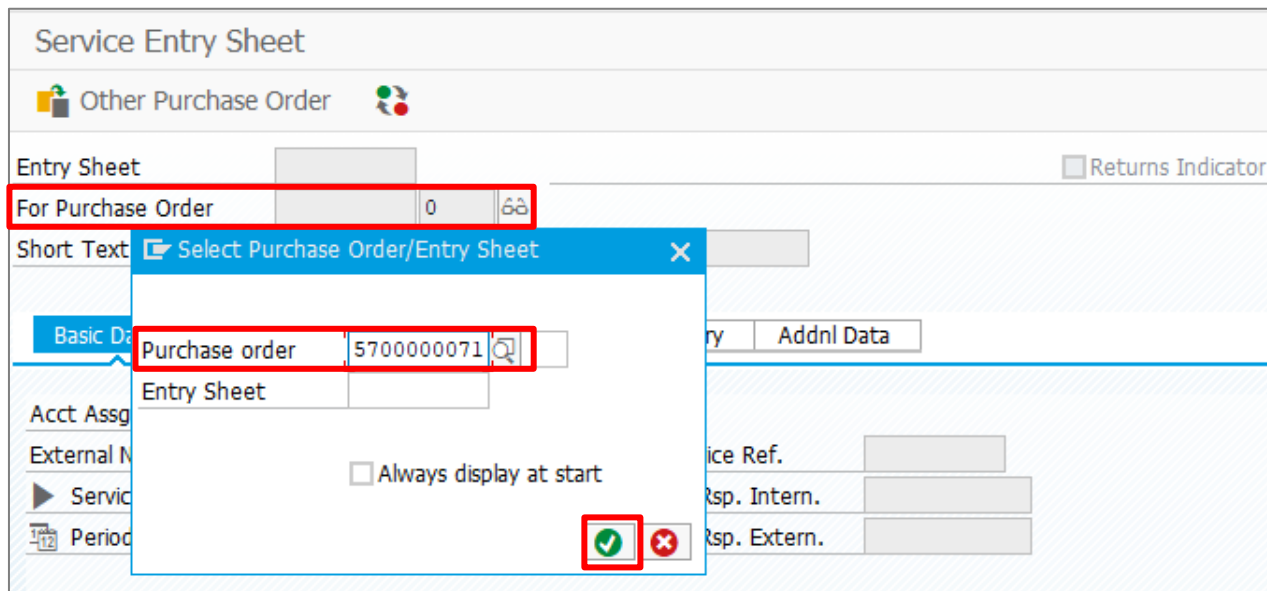
Transaction code: ME29N

As per the release procedure all the authorities will release the PO.



### Create Service entry sheet against Purchase Order

- I. Execute transaction code **ML81N** from SAP command field.
- II. Click on **Other Purchase Order**.
- III. Enter **Purchase order** number.



Service Entry Sheet

Other Purchase Order

Entry Sheet

For Purchase Order 0

Short Text

Select Purchase Order/Entry Sheet

Purchase order 5700000071

Entry Sheet

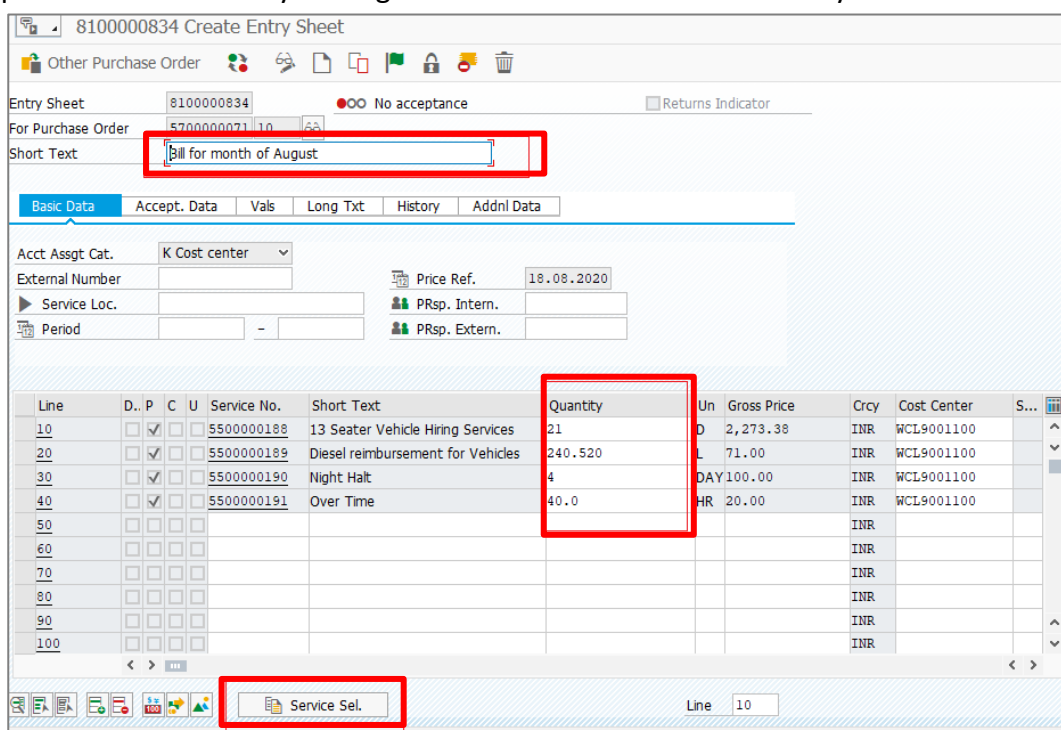
Always display at start

Service Ref.

Rsp. Intern.

Rsp. Extern.

- IV. Click **Service selection** tab to adapt services.  
Service entry should be made for monthly basis.
- V. Enter **Purchase Order Number** and click on Create.
- VI. Adopt services from PO by clicking on Service selection tab. Enter Qty for 1 month



8100000834 Create Entry Sheet

Other Purchase Order

Entry Sheet 8100000834

For Purchase Order 5700000071

Short Text Bill for month of August

Basic Data

Acct Assgt Cat. K Cost center

External Number

Service Loc.

Period

Price Ref. 18.08.2020

PRsp. Intern.

PRsp. Extern.

Line	D..	P	C	U	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Cost Center	S...
10					5500000188	13 Seater Vehicle Hiring Services	21		2,273.38	INR	WCL9001100	
20					5500000189	Diesel reimbursement for Vehicles	240.520		71.00	INR	WCL9001100	
30					5500000190	Night Halt	4		100.00	INR	WCL9001100	
40					5500000191	Over Time	40.0		20.00	INR	WCL9001100	
50										INR		
60										INR		
70										INR		
80										INR		
90										INR		
100										INR		

Service Sel.

Line 10

The item details are displayed.

Display Document: Data Entry View

Display Currency    General Ledger View

Data Entry View

Document Number	6600000472	Company Code	WCL	Fiscal Year	2020
Document Date	18.07.2020	Posting Date	18.07.2020	Period	4
Reference		Cross-Comp.No.			
Currency	INR	Texts exist	<input type="checkbox"/>	Ledger Group	

Key S	Account	Description	Amount	Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Center	Profit
81	41100252	Miscellaneous Servic	66,017.90	INR				66,017.90	INR		WCL9667205	WCL9667205
96	11000010	GR/IR clearing	66,017.90	INR				66,017.90	INR			WCL9667205

## Release SES

- I. Execute transaction code **ML85** from SAP command field.
- II. Enter the following details:
  - Release Code as per release strategy
  - Release Group code
  - Entry Sheet or SES number
- III. Click on the Entry Sheet number.

Collective Release of Entry Sheets

Release

Release Code	11		
Release Group	SE	to	
Set Release	<input checked="" type="checkbox"/>		
Cancel Release	<input type="checkbox"/>		

PO Data

Purchase Order		to	
Document Date		to	
Document Type		to	
Vendor		to	
Purchasing Organization		to	
Purchasing Group		to	
Plant		to	
Material/Service Group		to	

Entry Sheet Data

Entry Sheet	8100000834	to	
External Number		to	

Entry sheet opens.

List Edit Goto System Help

Release Entry Sheets with Release Code 11

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value PO Item	Del. Date
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value EntrySh.	Cr. Date
Rel.Str.				RelIn	Release Option	
5700000071	9000	004	1000000149	M/s. Shraddha Enterprises	INR	18.08.2020
00010	9001		S00000017	Hiring of Vehicles	787,674.43	18.08.2020
8100000834				Bill for month of August	66,017.90	18.08.2020
SE/10 Up to 3750000	inr			A Blocked, Changable	Release Set	

- IV. Click the release button (green flag). A pop-up window appears.
- V. Enter a **Document Date**.
- VI. Click ok/continue button.

Release Entry Sheets with Release Code 14

Rel. strategy Block/unblock Set fin. entry Reset f. entry

Pur. Order	POrg	PGrp	Vendor	Name	Currency	PO Date
Item	Plant	FinEnt	Mat. Grp	Sh. Text	Net Value PO Item	Del. Date
EntrySh.	AccIn	FinEnt	BlkgInd	Sh. Text	Net Value EntrySh.	Cr. Date
Rel.Str.				RelIn	Release Option	
5700000071	9000	004	1000000149	M/s. Shraddha Enterprises	INR	18.08.2020
00010	9001		S00000017	Hiring of Vehicles	787,674.43	18.08.2020
8100000834				Bill for month of August	66,017.90	18.08.2020
SE/10 Up to 375					Release Set	

Header Data: Acceptance Document

Document Date 18.08.2020

Posting Date 18.08.2020

Reference

Document Header Text

OK Cancel

The item details are displayed.

Display Document: Data Entry View

Display Currency General Ledger View

Data Entry View

Document Number 8600000524 Company Code WCL Fiscal Year 2020

Document Date 18.08.2020 Posting Date 18.08.2020 Period 5

Reference Cross-Comp.No.

Currency INR Texts exist Ledger Group

CoCd	Item	Key S	Account	Description	Amount	Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Cen
WCL	1	81	41100037	Hire Chg-Ex HEMM	66,017.90	INR				66,017.90	INR		WCL9001
	2	96	11000010	GR/IR clearing	66,017.90-	INR				66,017.90-	INR		

## Invoice Receipt against Service Entry Sheet

- I. Execute transaction code **MIRO** from SAP command field.
- II. Enter **Invoice date**.
- III. Enter **Amount**.
- IV. Under PO Reference, select **Service Entry Sheet** option and number.

Enter Incoming Invoice: Company Code WCL

Show PO structure Show worklist Hold Simulate Messages Help NF

Transaction 1 Invoice Balance 0.00 INR

Diff. Posting Not Applicable

Basic Data Payment Details Tax Withholding tax

Invoice date 18.08.2020 Reference

Posting Date 18.08.2020

Amount 69,318.80 INR ☒ Calculate tax

Tax Amount 3,300.90

Bus.place/sectn WCLM / 9001

Other Details

Paymt terms Due immediately

Baseline Date 18.08.2020

Vendor 1000000149

M/s. Shraddha Enterprises

At.Sonpur Po.Adasa, Tah. Kamleshwar

440001 NAGPUR

INDIA

Bank Key DUMMY

Bank acct 12345678905

DUMMY BK

PO Reference G/L Account Material

4 Service Entry Sheet 8100000834

Layout 13\_6310 All Information

Item	Amount	Quantity	O...	Purchase ...	Item	PO Text	Outline a
1	66,017.90			5700000071	10	Bill for month of August	

- V. Press Enter.

Display Document: Data Entry View

Taxes Display Currency General Ledger View

Data Entry View

Document Number 3200000129 Company Code WCL Fiscal Year 2020

Document Date 18.08.2020 Posting Date 18.08.2020 Period 5

Reference Cross-Comp.No.

Currency INR Texts exist Ledger Group

CoCd	Item	Key S	Account	Description	Amount	Curr.	Pmnt/c amnt	Pcurr	Tx	Loc.curr.amount	LCurr	Sender cost ctr	Cost Cen
WCL	1	31	1000000149	M/s. Shraddha Enterprises	69,318.80	INR			V1	69,318.80	INR		
	2	86	11000010	GR/IR clearing	66,017.90	INR			V1	66,017.90	INR		WCL9001
	3	40	21400005	CGST ITC Receivable	1,650.45	INR			V1	1,650.45	INR		
	4	40	21400006	SGST ITC Receivable	1,650.45	INR			V1	1,650.45	INR		

## Payment

- I. Execute transaction code **F110** from SAP command field.
- II. Enter **Accounting Document Number**.  
The payment run is carried out and the automatic payment procedure is completed.
- III. Execute transaction code **FBL1N** to see Vendor Open item Balance.

**Vendor Line Item Display**

Vendor: 1000000149  
Company Code: WCL  
Name: M/s. Shraddha Enterprises  
City: Nagpur

St	Assignment	DocumentNo	Type	Doc. Date	S DD	Amount in local cur.	LCurr	Clrng doc.	Other Details
		3200000129	RE	18.08.2020		69,318.80-	INR		
						69,318.80-	INR		

- IV. Execute transaction code **F110** from SAP command field.
- V. Enter **Run Date**.
- VI. Click the **Parameter** tab.

**Automatic Payment Transactions: Status**

Status Proposal Payment Run

Run Date: 18.08.2020

Identification: RCHV2

Status Parameter Free selection Additional Log Printout/data medium

Status

Parameters have been entered

- VII. Enter **Posting Date**.
- VIII. Enter **Docs entered up to date**.
- IX. Enter Company Code where payment needs to generate.

**Automatic Payment Transactions: Parameters**

B.ex./pmt request...

Run Date: 18.08.2020  
Identification: RCHV2

Status Parameter Free selection Additional Log Printout/data medium

Posting Date: 18.08.2020  
Docs entered up to: 18.08.2020  
Customer items due by:

Payments control

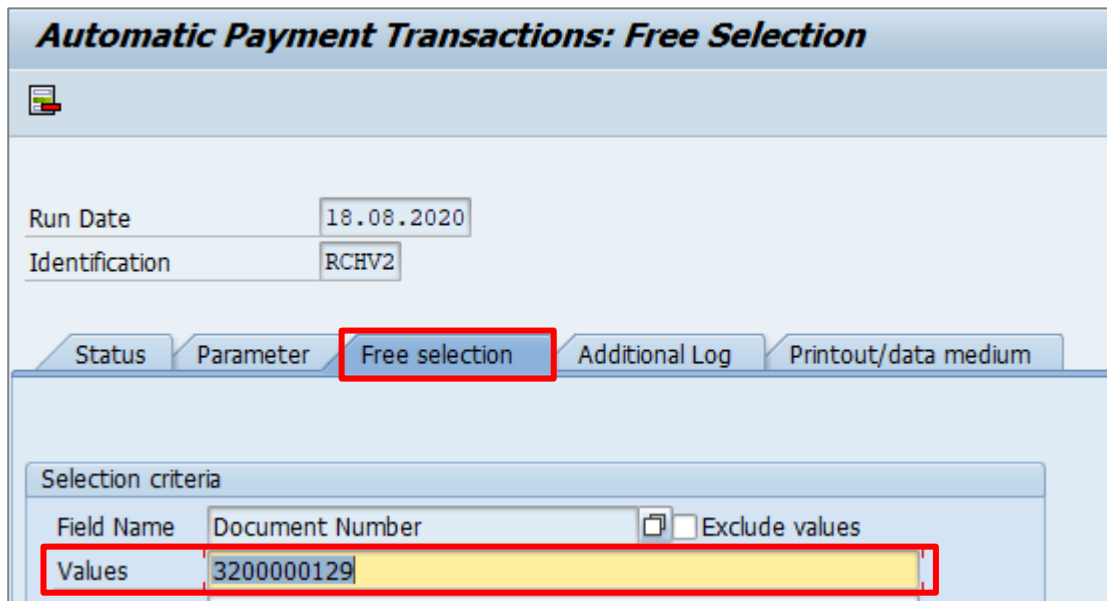
Company codes	Pmt meths	Next p/date
WCL	T	19.08.2020

Accounts

Vendor: 1000000149 to

- X. Click **Free selection** tab.

XI. Enter invoice document number in **Values** field.



**Automatic Payment Transactions: Free Selection**

Run Date: 18.08.2020  
Identification: RCHV2

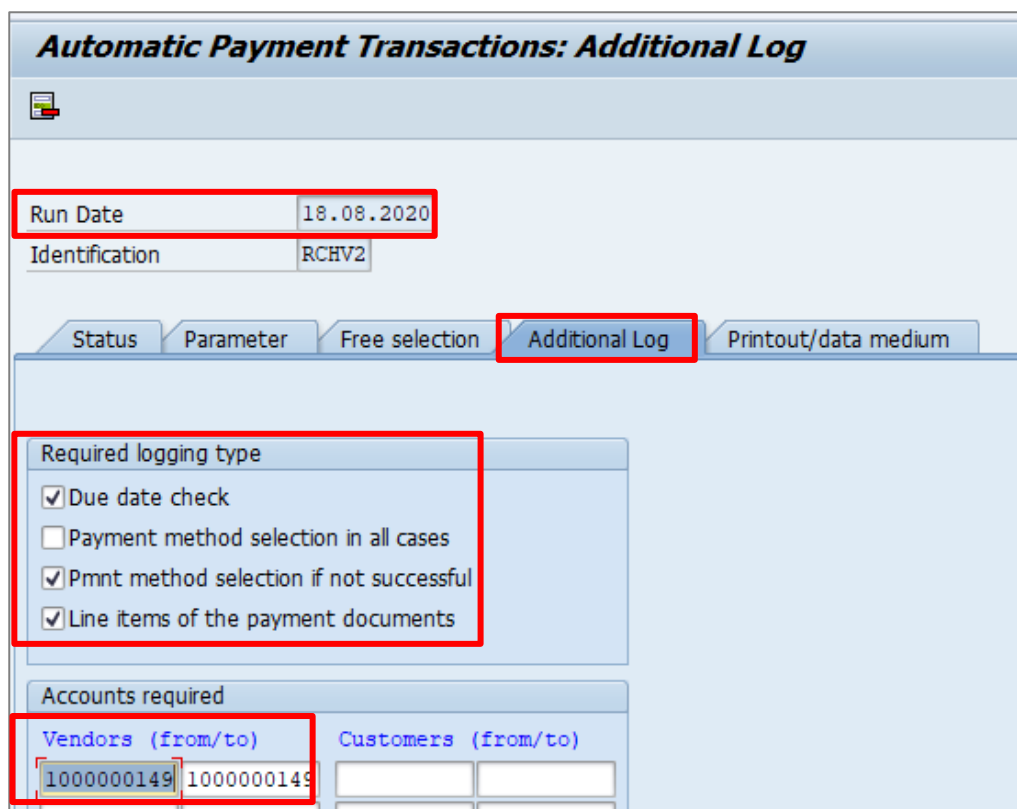
Tab: **Free selection** (Selected)

Selection criteria:  
Field Name: Document Number  
Values: 3200000129  
Exclude values: ☐

XII. Click **Additional Log** tab.

XIII. Click the applicable **Required logging types**.

XIV. Enter the **Vendor** number to whom you want to pay.



**Automatic Payment Transactions: Additional Log**

Run Date: 18.08.2020  
Identification: RCHV2

Tab: **Additional Log** (Selected)

Required logging type:  
☒ Due date check  
☐ Payment method selection in all cases  
☒ Pmnt method selection if not successful  
☒ Line items of the payment documents

Accounts required:  
 Vendors (from/to): 1000000149  
 Customers (from/to): 1000000149

XV. Click the **Proposal** button at the top.

XVI. Enter **Start date**.

XVII. Click the **Start immediately** checkbox if the payment needs to be made immediately.

**Automatic Payment Transactions: Status**

Status **Proposal** Payment Run

Run Date: 18.08.2020  
Identification: RCHV2

Status Parameter Free selection Additional Log Printout/data medium

**Schedule Proposal**

Start date: 18.08.2020 ☒ Start immediately  
Start time: 00:00:00  
Target computer:

☒ ☐

Check the proposal log.

**Job Log Entries for F110-20200818-RCHV2 -X / 14202200**

Long text Previous Page Next page

Job log overview for job: F110-20200818-RCHV2 -X / 14202200

Date	Time	Message text
18.08.2020	14:20:22	Job started
18.08.2020	14:20:22	Step 001 started (program SAPF110S, variant s00000000000199, user ID SS595560)
18.08.2020	14:20:22	Log for proposal run for payment on 18.08.2020, identification RCHV2
18.08.2020	14:20:22	>
18.08.2020	14:20:22	> Additional log for vendor 1000000149 company code WCL
18.08.2020	14:20:22	>
18.08.2020	14:20:22	> Due date determination additional log
18.08.2020	14:20:22	> Document 3200000129 line item 001 via INR 69,318.80-
18.08.2020	14:20:22	> Terms of payment: 18.08.2020 0 0.000 % 0 0.000 % 0
18.08.2020	14:20:22	> 00 days grace period is being considered
18.08.2020	14:20:22	> Payment must take place before 18.08.2020; next payment on 19.08.2020
18.08.2020	14:20:22	> Item is due with 0.000 % cash discount
18.08.2020	14:20:22	>
18.08.2020	14:20:22	> Posting documents additional log
18.08.2020	14:20:22	> Document F110000001 company code WCL currency INR payment method T
18.08.2020	14:20:22	> Lit PK Acct RA Amount Tax
18.08.2020	14:20:22	>
18.08.2020	14:20:22	> 001 25 1000000149 69,318.80 0.00
18.08.2020	14:20:22	> 002 50 0021001392 69,318.80 0.00
18.08.2020	14:20:22	>
18.08.2020	14:20:22	End of log
18.08.2020	14:20:22	Job finished

XVIII. Click the **Payment Run** button at the top.

XIX. Enter **Start date**.

XX. Click the **Start immediately** checkbox.



**Automatic Payment Transactions: Status**

Status **Payment Run** Proposal Proposal Proposal

Run Date 18.08.2020  
Identification RCHV2

Status Parameter Free selection Additional Log Printout/data medium

**Schedule Payment**

Start date 18.08.2020 ☒ Start immediately  
Start time 00:00:00  
Target computer

☒ ☐

Payment document is generated. Check the payment log.

**Automatic Payment Transactions: Status**

Status Payment Proposal Proposal Printout

Run Date 18.08.2020  
Identification RCHV2

Status Parameter Free selection Additional Log Printout/data medium

**Status**

- ☒ Parameters have been entered
- ☒ Payment proposal has been created
- ☒ Payment run has been carried out

Posting orders: 1 generated, 1 completed

**Job Log Entries for F110-20200818-RCHV2 / 14213800**

Long text Previous Page Next page

Job log overview for job: F110-20200818-RCHV2 / 14213800

Date	Time	Message text
18.08.2020	14:21:38	Job started
18.08.2020	14:21:38	Step 001 started (program SAPF110S, variant s00000000000200, user ID SS595560)
18.08.2020	14:21:38	Log for payment run for payment on 18.08.2020, identification RCHV2
18.08.2020	14:21:38	>
18.08.2020	14:21:38	> Additional log for vendor 1000000149 company code WCL
18.08.2020	14:21:38	>
18.08.2020	14:21:38	> Posting documents additional log
18.08.2020	14:21:38	> Document 2000000038 company code WCL currency INR payment method T
18.08.2020	14:21:38	> Lit PK Acct RA Amount Tax
18.08.2020	14:21:38	>
18.08.2020	14:21:38	> 001 25 1000000149 69,318.80 0.00
18.08.2020	14:21:38	> 002 50 0021001392 69,318.80 0.00
18.08.2020	14:21:38	>
18.08.2020	14:21:38	End of log
18.08.2020	14:21:38	Job finished

Payment run executed and payment has been made. Check the cleared item in FBL1N transaction code.

**Vendor Line Item Display**

Selections Dispute Case

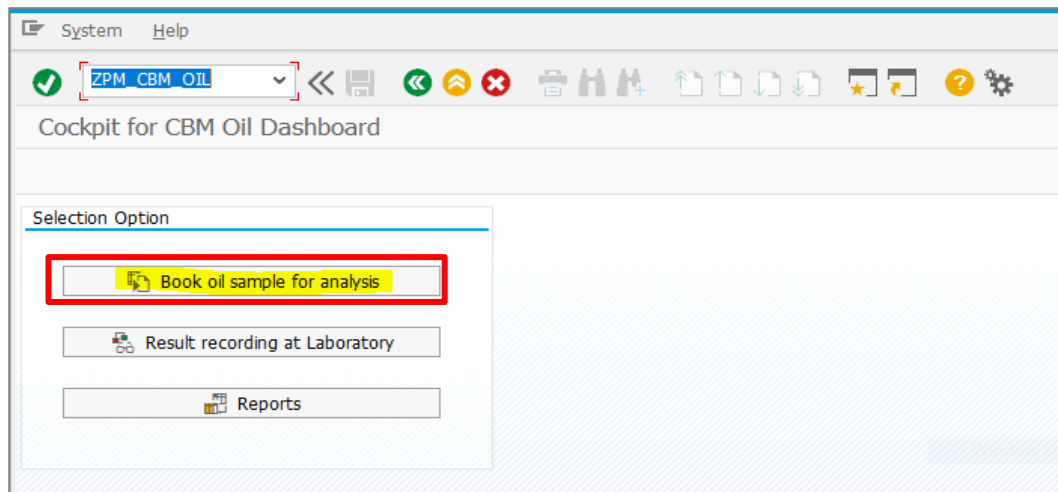
Vendor 1000000149  
Company Code WCL  
Name M/s. Shradha Enterprises  
City Nagpur

St	Assignment	DocumentNo	Type	Doc. Date	S	DD	Amount in local cur.	LCurr	Clrng doc.	Other Details
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2000000037	ZP	18.08.2020			1,777.08	INR	2000000037	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3200000086	RE	05.07.2020			1,777.08-	INR	2000000037	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2000000038	ZP	18.08.2020			69,318.80	INR	2000000038	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	3200000129	RE	18.08.2020			69,318.80-	INR	2000000038	

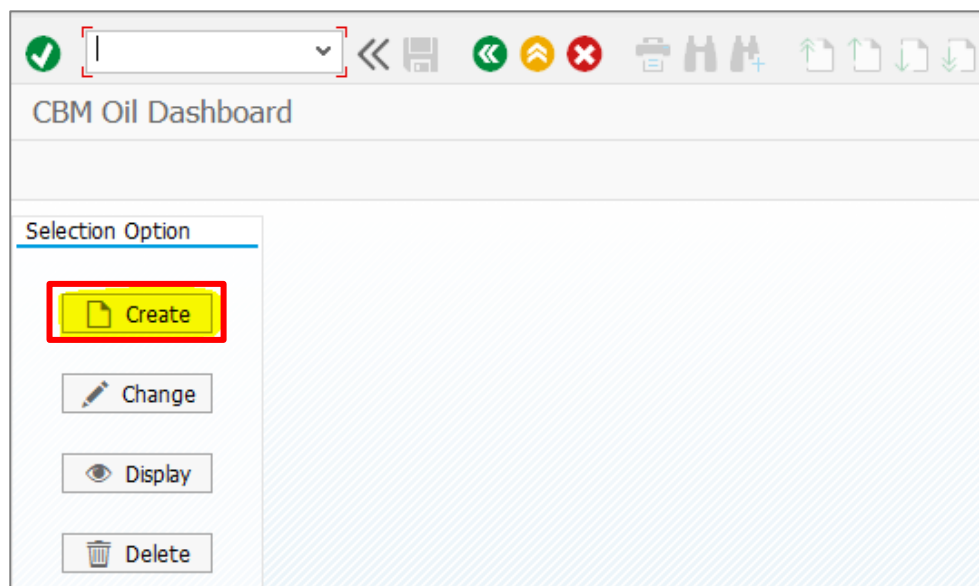
## CBM Oil Analysis

### Oil Sample Collection from Plant & Transfer to Laboratory

- I. Execute transaction code **ZPM\_CBM\_OIL** to add oil sample details at the mine level (plant).
- II. Click **Book oil sample for analysis** for sample booking.

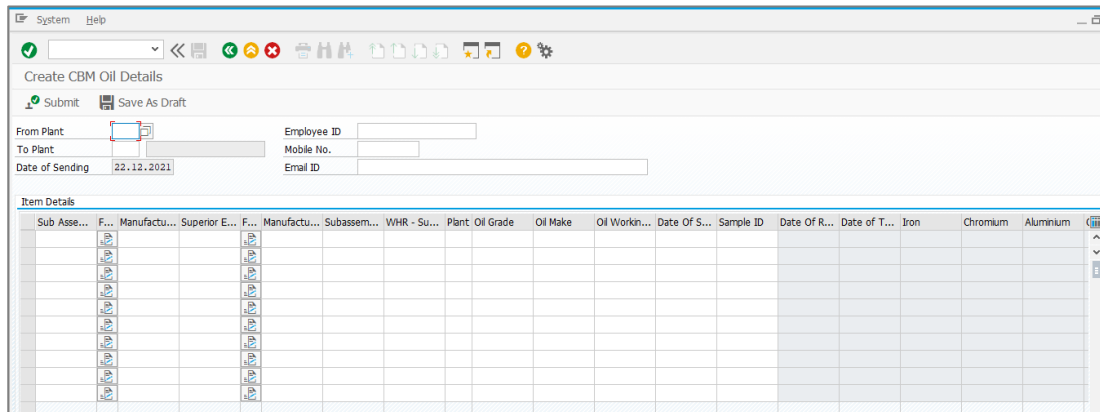


- III. Click **Create** button.

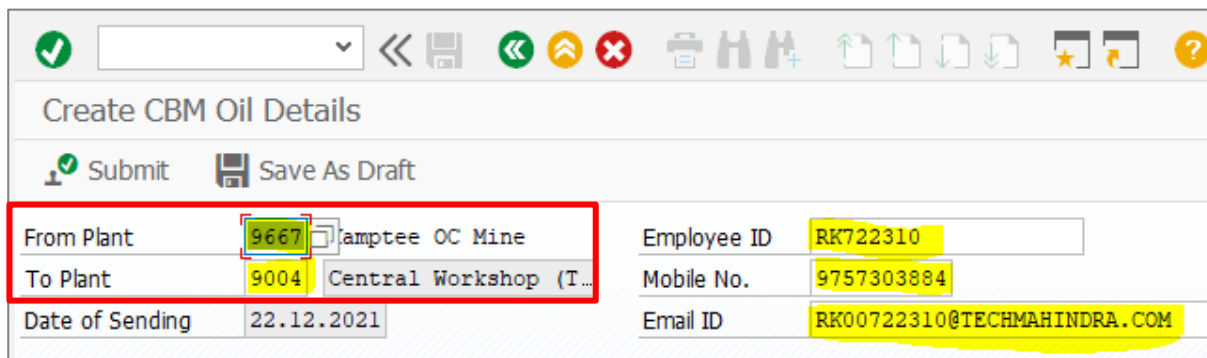


A screen will appear to fill-up the details of oil sample which we are sending for analysis.

- IV. Enter details of the oil sample at plant (mine).



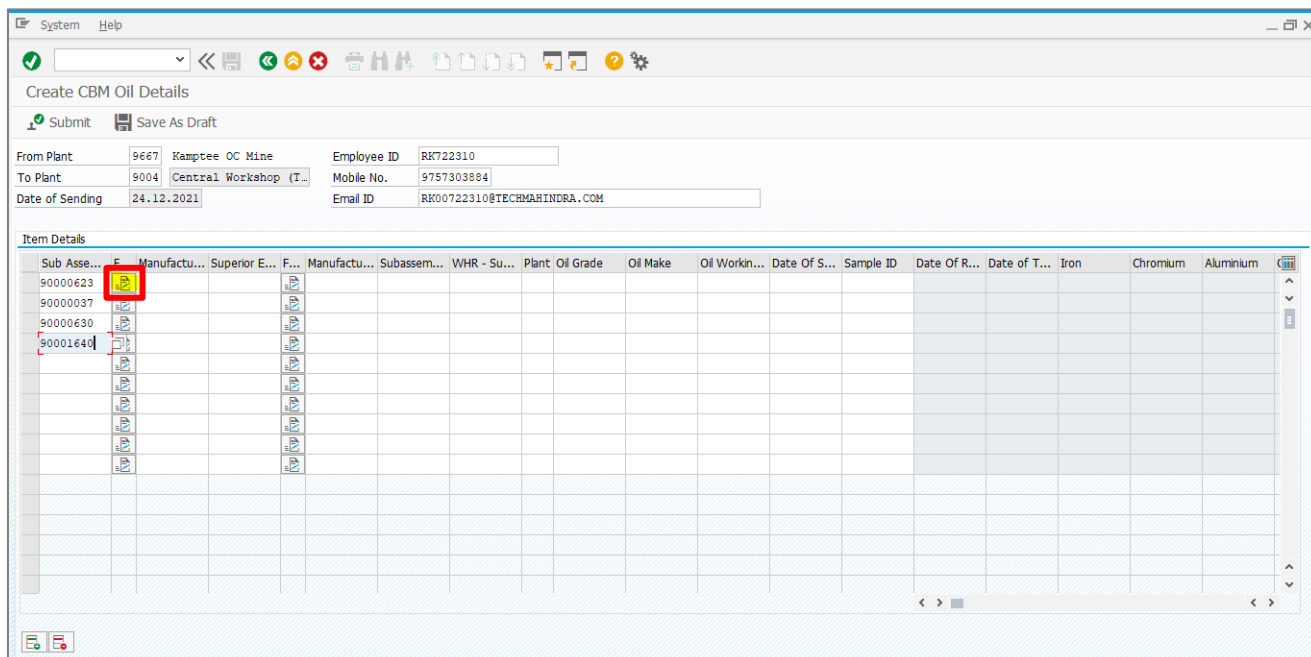
V. Enter **From Plant** and **To Plant** code.



VI. Enter the following details:

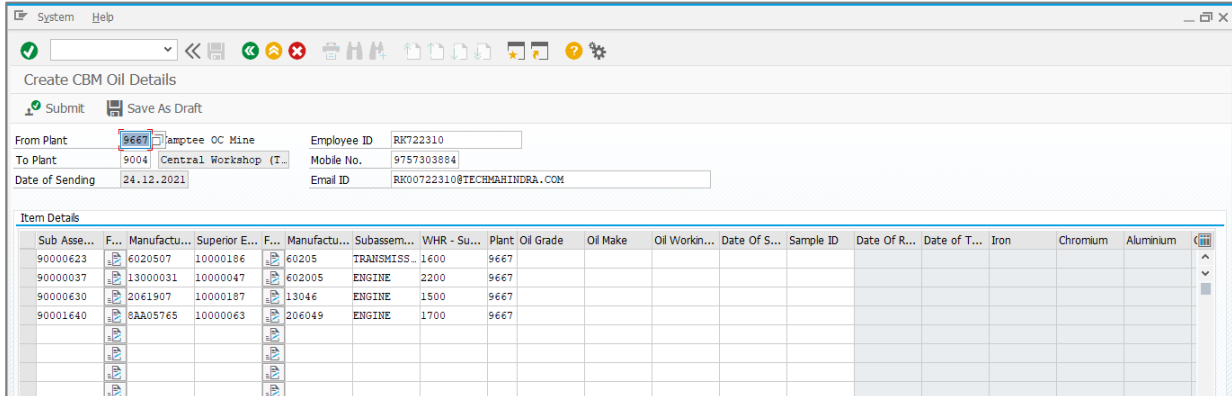
- Sub-Assembly ID. SAP no. (for example, Engine SAP number, Transmission SAP number).

VII. Click on fetch details icon next to the ID row.



On the fetch button, below data will get automatically fetched:

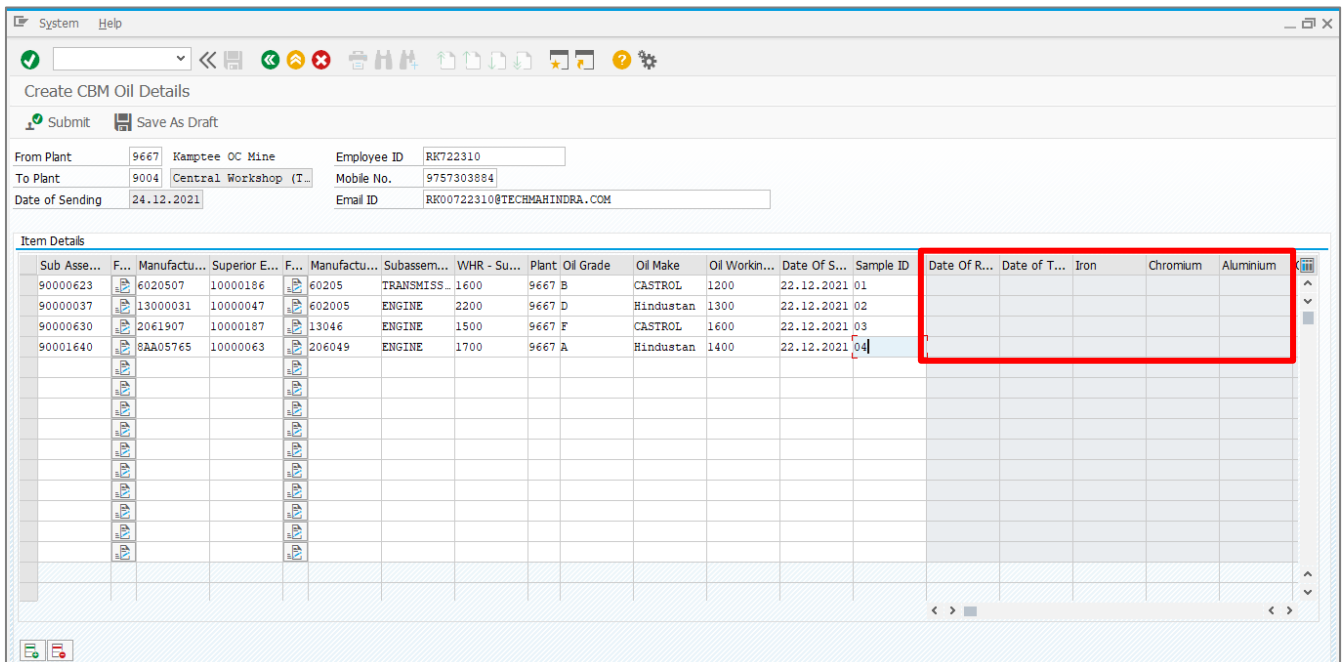
- Manufacturing serial no. of sub-assembly
- Superior equipment no. & plant.
- Manufacturing serial no. of superior equipment.
- Sub-assembly object type.
- Working hours of sub-equipment no.
- Plant



Sub Asse...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Workin...	Date Of S...	Sample ID	Date Of R...	Date of T...	Iron	Chromium	Aluminium
90000623		6020507	10000186		60205	TRANSMISS...	1600	9667										
90000037		13000031	10000047		602005	ENGINE	2200	9667										
90000630		2061907	10000187		13046	ENGINE	1500	9667										
90001640		8AA05765	10000063		206049	ENGINE	1700	9667										

VIII. Enter the following details:

- Oil Grade
- Oil Make
- Working hour of oil
- Date of sample and Sample id (Bottle number of sample)

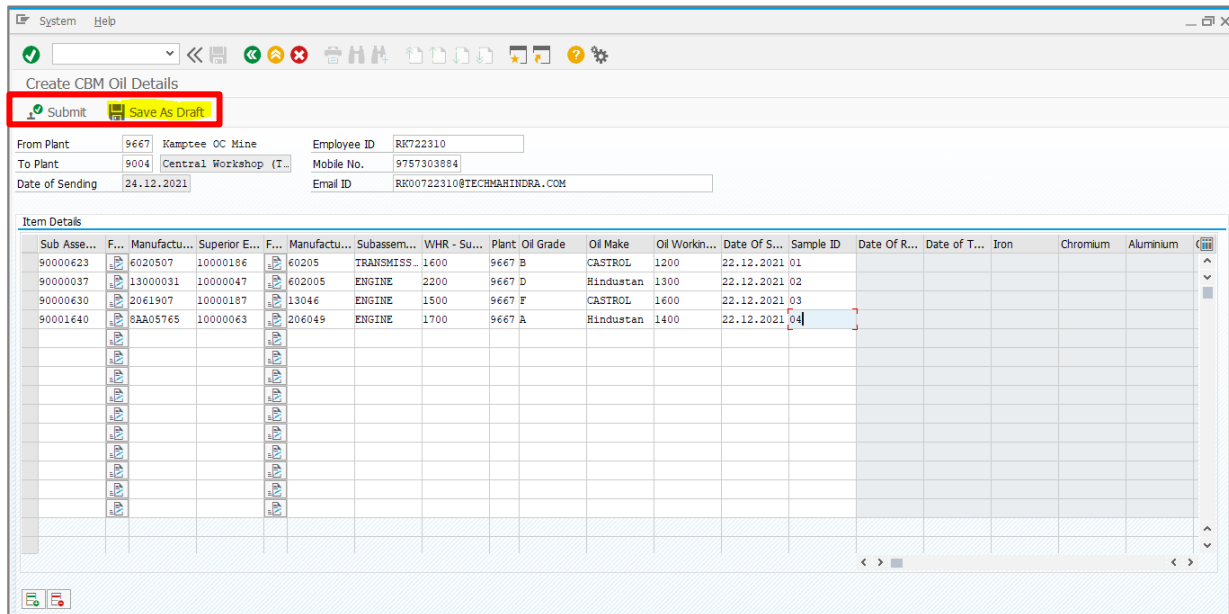


Sub Asse...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Workin...	Date Of S...	Sample ID	Date Of R...	Date of T...	Iron	Chromium	Aluminium
90000623		6020507	10000186		60205	TRANSMISS...	1600	9667	B	CASTROL	1200	22.12.2021	01					
90000037		13000031	10000047		602005	ENGINE	2200	9667	D	Hindustan	1300	22.12.2021	02					
90000630		2061907	10000187		13046	ENGINE	1500	9667	F	CASTROL	1600	22.12.2021	03					
90001640		8AA05765	10000063		206049	ENGINE	1700	9667	A	Hindustan	1400	22.12.2021	04					

IX. Click on **Save as Draft** option to edit or add other details in CBM oil details.

OR

X. Click directly on **Submit** option, so it cannot be edited further.



System Help

Create CBM Oil Details

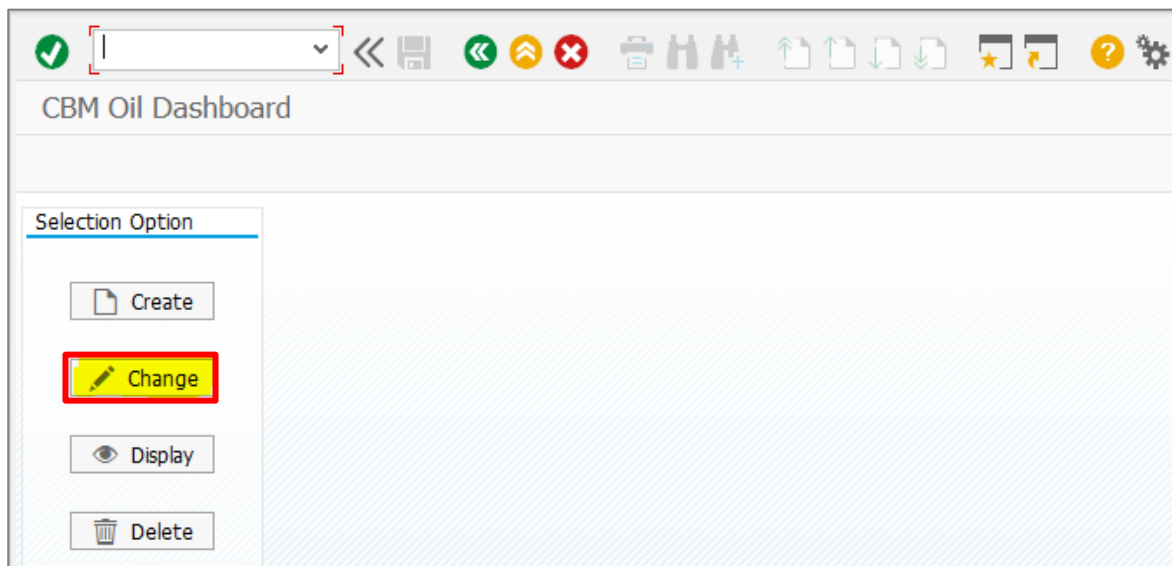
Submit Save As Draft

From Plant 9667 Kamptee OC Mine Employee ID RK722310  
To Plant 9004 Central Workshop (T... Mobile No. 9757303884  
Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Asse...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Workin...	Date Of S...	Sample ID	Date Of R...	Date of T...	Iron	Chromium	Aluminium
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021 01									
90000037	13000031	10000047	60205	ENGINE	2200	9667 D	Hindustan	1300	22.12.2021 02									
90000630	2061907	10000187	13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021 03									
90001640	8AA05765	10000063	206045	ENGINE	1700	9667 A	Hindustan	1400	22.12.2021 04									

After saving as draft document no. will get generated. Note down this document no. for further process.

- XI. Click the **Change** button in CBM oil dashboard to change the data of the oil sample.



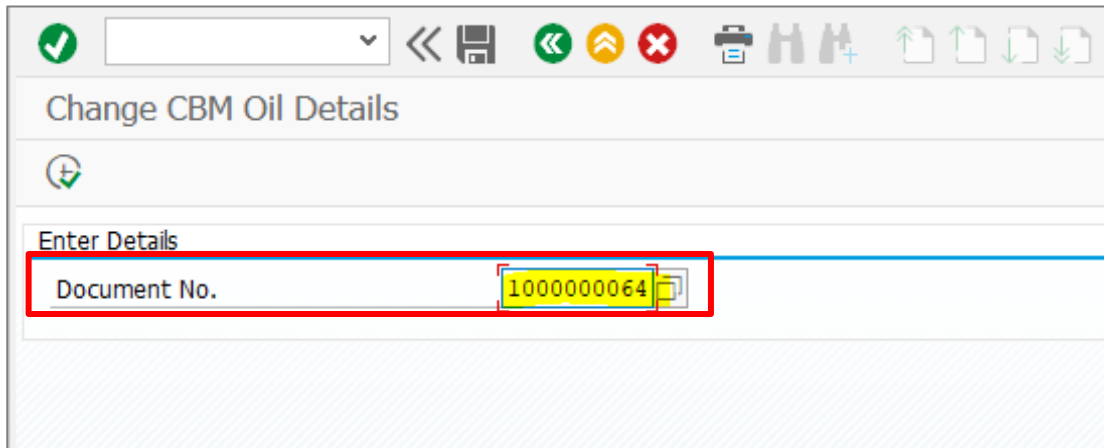
CBM Oil Dashboard

Selection Option

Create Change Display Delete

This option will only be available there, if document is saved as draft. On Submit button, Document will not be able to change further.

- XII. Enter the **Document No.**
- XIII. Click the execute button to make any further changes to oil sample details.

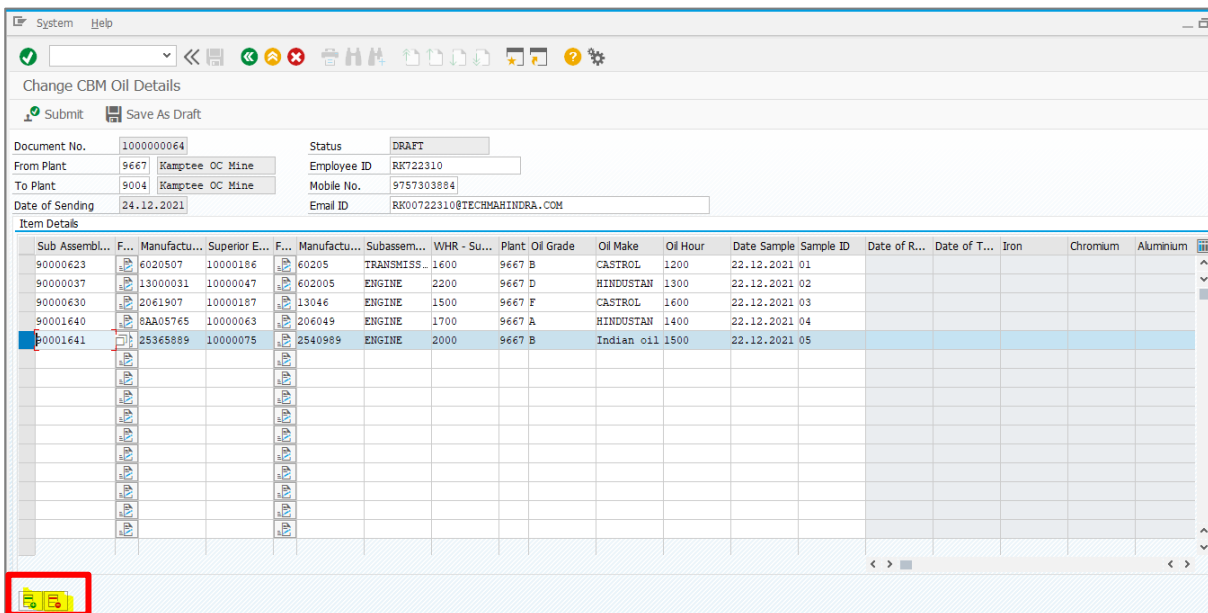


Change CBM Oil Details

Enter Details

Document No. 1000000064

- XIV. Make the edits as required.
- XV. Insert/Delete rows as required.



System Help

Change CBM Oil Details

Submit Save As Draft

Document No. 1000000064 Status DRAFT

From Plant 9667 Kamptee OC Mine Employee ID RK722310

To Plant 9004 Kamptee OC Mine Mobile No. 9757303884

Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Assembl...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Date of R...	Date of T...	Iron	Chromium	Aluminium
90000623		6020507	10000186		60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01						
90000037		13000031	10000047		602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02						
90000630		2061907	10000187		13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03						
90001640		8AA05765	10000063		206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04						
90001641		25365889	10000075		2540989	ENGINE	2000	9667 B	Indian oil	1500	22.12.2021	05						

**Note:** If Superior Equipment's (Ex- UDM, LHD Gearbox) Oil sample need to be send for analysis. Provide Superior equipment SAP id. On Fetch button- Manufacturing serial number and Plant will get fetched.



Sub Assembly...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Date of R...	Date of T...	Iron	Chromium	Aluminium
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01								
90000037	13000031	10000047	602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02								
900000630	2061907	10000187	13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03								
90001640	8AA05765	10000063	206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04								
90001641	25365889	10000075	2540989	ENGINE	2000	9667 B	INDIAN OIL	1500	22.12.2021	05								

Sub assembly type (Ex- Gear box) and WHR should be provided manually.

Sub Assembly...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Date of R...	Date of T...	Iron	Chromium	Aluminium
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01								
90000037	13000031	10000047	602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02								
900000630	2061907	10000187	13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03								
90001640	8AA05765	10000063	206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04								
90001641	25365889	10000075	2540989	ENGINE	2000	9667 B	INDIAN OIL	1500	22.12.2021	05								

**Note:** After submitting this CBM oil details it can't be changed further.

- XVI. Click the display option to take the printout of the Oil sample details in the CBM oil sample analysis details.

**CBM Oil Dashboard**

**Selection Option**

- Create
- Change
- Display**
- Delete

XVII. Enter **Document No.**

XVIII. Press Enter.

Display CBM Oil Details

Enter Details

Document No. 1000000064

XIX. Click the **Print** option to get a printout.

Display CBM Oil Details

**Print**

Document No. 1000000064 Status SUBMITTED

From Plant 9667 Kamptee OC Mine Employee ID RK722310

To Plant 9004 Central Workshop (Mobile No. 9757303884)

Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Asse...	Manufactu...	Superior E...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667	B	CASTROL	1200	22.12.2021	01
90000037	13000031	10000047	602005	ENGINE	2200	9667	D	HINDUSTAN	1300	22.12.2021	02
90000630	2061907	10000187	13046	ENGINE	1500	9667	F	CASTROL	1600	22.12.2021	03
90001640	8AA05765	10000063	206049	ENGINE	1700	9667	A	HINDUSTAN	1400	22.12.2021	04
90001641	25365889	10000075	2540989	ENGINE	2000	9667	B	INDIAN OIL	1500	22.12.2021	05
		10000033	201806904	GEARBOX	2200	9667	C	HINDUSTAN	1600	22.12.2021	06

XX. Click **Print Preview**.

Print:

Output Device LOCAL KOLKATA

Frontend Printer Microsoft Print to PDF

Spool Request

Name PBFORM LOCL RK722310

Cover Page Text

Authorization

Spool Control

☐ Print Immediately

☐ Delete After Output

☐ New Spool Request

☐ Close Spool Request

Spool Retention 8 Day(s)

Storage Mode 1 Print only

Number of Copies

Number of Copies 1

Cover Page Settings


SAP Cover Page Do Not Print

Recipient

Department

Print Print Preview Additional Options

Printable output is generated.



Document No. : 1000000064      User : RK722310

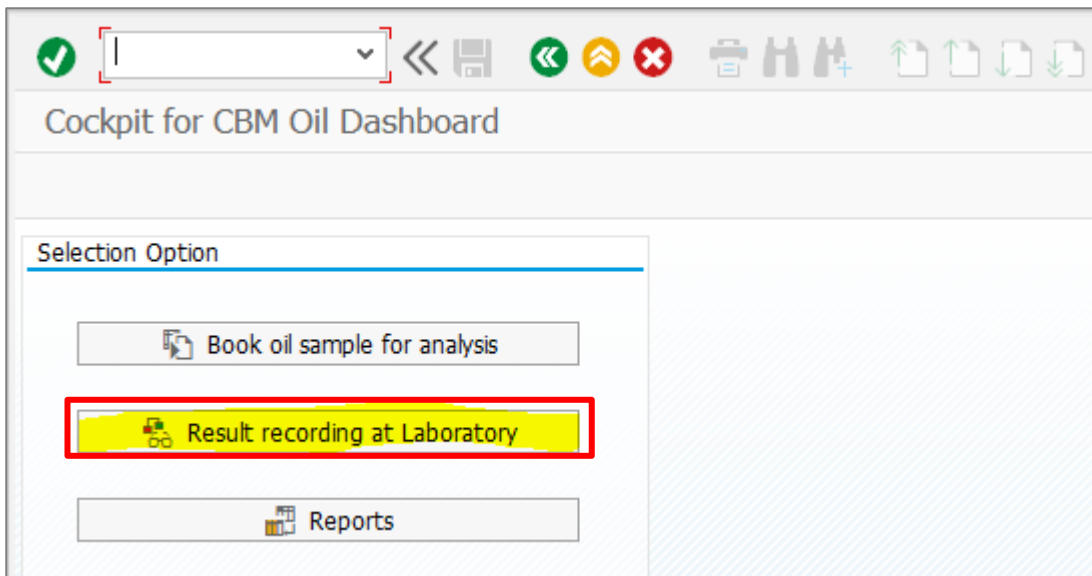
From Plant : 9667      To Plant : 9004      Mobile No. : 9757303884      Email ID : RK00722310@TECHMAHINDRA.COM

Item No.	Sub Assembly ID	Manufacturer Serial	Superior Equipment	Manufacturer Serial	Object Type	WHR of Subassembly	Plant	Oil Grade	Oil Make	Oil Working Hours	Date Of Sample	Sample ID
00001	90000623	6020507	10000186	0000060205	TRANSMISSION	1600	9667	B	CASTROL	1200	Dec 22, 2021	01
00002	90000037	13000031	10000047	0000602005	ENGINE	2200	9667	D	HINDUSTAN	1300	Dec 22, 2021	02
00003	90000630	2061907	10000187	0000013046	ENGINE	1500	9667	F	CASTROL	1600	Dec 22, 2021	03
00004	90001640	8AA05765	10000063	0000206049	ENGINE	1700	9667	A	HINDUSTAN	1400	Dec 22, 2021	04
00005	90001641	25365889	10000075	0002540989	ENGINE	2000	9667	B	INDIAN OIL	1500	Dec 22, 2021	05
00006			10000033	0201806904	GEARBOX	2200	9667	C	HINDUSTAN	1600	Dec 22, 2021	06

Oil sample is transferred to CWS along with this printout for testing it at Laboratory.

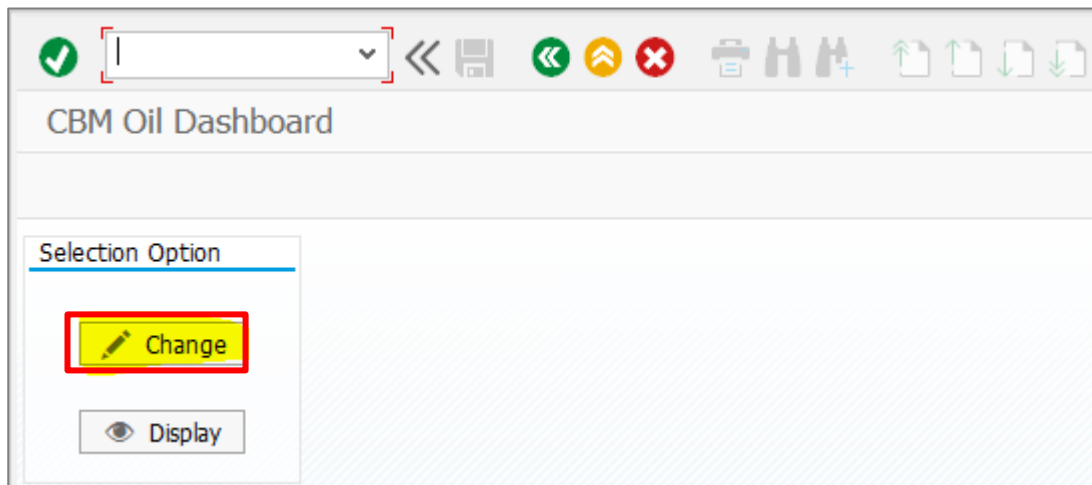
### Result Recording

- I. Execute transaction code **ZPM\_CBM\_OIL** from SAP command field.
- II. Click **Result recording at Laboratory** button to test the received oil sample from mine(plant).

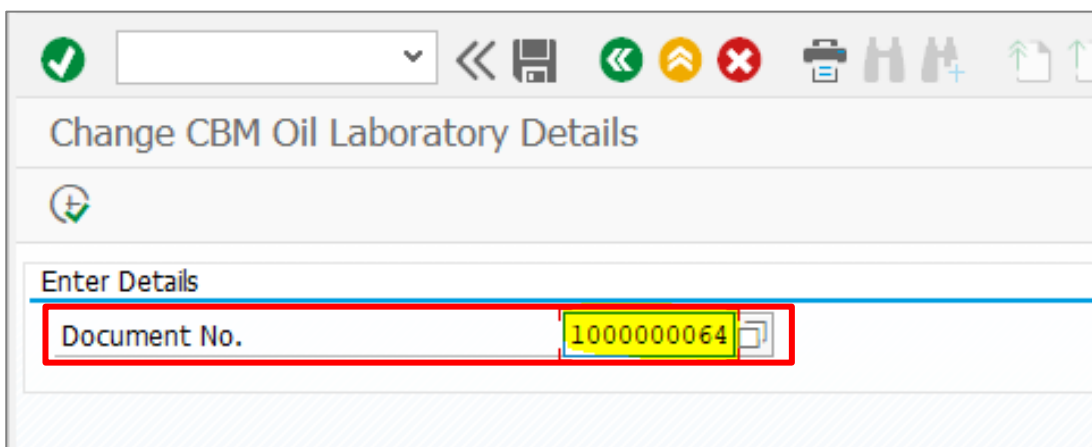


The screenshot shows a web interface titled "Cockpit for CBM Oil Dashboard". At the top, there is a navigation bar with a search icon, a dropdown menu, and several action icons (back, forward, refresh, etc.). Below the navigation bar, there is a section titled "Selection Option" which contains three buttons: "Book oil sample for analysis", "Result recording at Laboratory" (highlighted with a red box), and "Reports".

- III. Click the **Change** button to add the results of the test done at Laboratory.

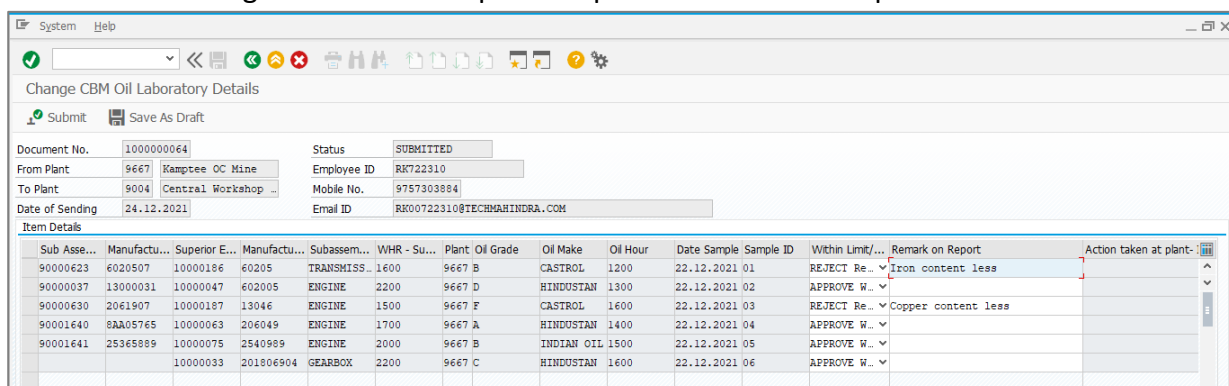


IV. Enter **Document** number.



V. Add the following details at result recording in Laboratory:

- Date of receipt (When oil sample was received to laboratory from mine).
- Date of test(When oil sample went under testing process).
- Percentage amount of components present in the oil sample.



Document No. 10000000064 Status SUBMITTED

From Plant 9667 Kamptee OC Mine Employee ID RK722310

To Plant 9004 Central Workshop ... Mobile No. 9757303884

Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Asse...	Manufactu...	Superior E...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Within Limit/...	Remark on Report	Action taken at plant...
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01	REJECT Re...	Iron content less		
90000037	13000031	10000047	602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02	APPROVE W...			
90000630	2061907	10000187	13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03	REJECT Re...	Copper content less		
90001640	8AA05765	10000063	206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04	APPROVE W...			
90001641	25365889	10000075	2540989	ENGINE	2000	9667 B	INDIAN OIL	1500	22.12.2021	05	APPROVE W...			
		10000033	201806904	GEARBOX	2200	9667 C	HINDUSTAN	1600	22.12.2021	06	APPROVE W...			

System Help

Change CBM Oil Laboratory Details

Submit Save As Draft

Document No. 1000000064 Status SUBMITTED

From Plant 9667 Kamptee OC Mine Employee ID RK722310

To Plant 9004 Central Workshop Mobile No. 9757303884

Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Asse...	Manufactu...	Superior E...	Manufactu...	Subassem...	WHR - Su...	Plant Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Other Parameter (Desc...	Other Parameter Result...	Within Limit/...	Remark o...
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01	Dielectric value	3.5	REJECT Re...	Iron cor
90000037	13000031	10000047	602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02			APPROVE W...	
90000630	2061907	10000187	13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03			REJECT Re...	Copper c
90001640	8AA05765	10000063	206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04			APPROVE W...	
90001641	25365889	10000075	2540989	ENGINE	2000	9667 B	INDIAN OIL	1500	22.12.2021	05			APPROVE W...	
		10000033	201806904	GEARBOX	2200	9667 C	HINDUSTAN	1600	22.12.2021	06			APPROVE W...	

While Result recording, Two columns are added - 'Other parameter Description' and 'Other parameter Result'. These columns will get used, if test on any other parameter is performed (Whose column is not present in design).

System Help

Change CBM Oil Laboratory Details

Submit Save As Draft

Document No. 1000000064 Status SUBMITTED

From Plant 9667 Kamptee OC Mine Employee ID RK722310

To Plant 9004 Central Workshop Mobile No. 9757303884

Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Asse...	Manufactu...	Superior E...	Manufactu...	Subassem...	WHR - Su...	Plant Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Other Parameter Result...	Within Limit/...	Remark on Report
90000623	6020507	10000186	60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01	3.5	REJECT Re...	Iron content less
90000037	13000031	10000047	602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02		APPROVE W...	
90000630	2061907	10000187	13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03		REJECT Re...	Copper content less
90001640	8AA05765	10000063	206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04		APPROVE W...	
90001641	25365889	10000075	2540989	ENGINE	2000	9667 B	INDIAN OIL	1500	22.12.2021	05		APPROVE W...	
		10000033	201806904	GEARBOX	2200	9667 C	HINDUSTAN	1600	22.12.2021	06		APPROVE W...	

- VI. Select Within limits/reject option to approve/reject oil samples after undergoing tests.
- VII. Add remarks next to it.
- VIII. Click on Submit or save as draft option (if need to edit it further).

System generated mail of this report will be forwarded to the user who have send this oil samples to CWS for testing.


### Action Taken on Rejected Samples (ATR)


Oil changes are done at mine level after testing the oil sample at Laboratory.

- I. Execute transaction code **ZPM\_CBM\_OIL** at mine level.
- II. Click on **Book Oil sample for analysis** option to add the corrected measures taken at mine.

### Cockpit for CBM Oil Dashboard

#### Selection Option

 **Book oil sample for analysis**

 **Result recording at Laboratory**

 **Reports**

### III. Enter Document No.

Change CBM Oil Details

Enter Details

Document No. **1000000064**

### IV. After opening the CBM oil details document at mine scroll to the right hand side.

### V. Add action taken at mine level & user details of the person who took this action.

### VI. Click on **Submit** option to save the data.

Change CBM Oil Details

**Submit** Save As Draft

Document No. 1000000064 Status SENT FOR CORREC

From Plant 9667 Kamptee OC Mine Employee ID RK722310

To Plant 5004 Central Workshop ... Mobile No. 9757303884

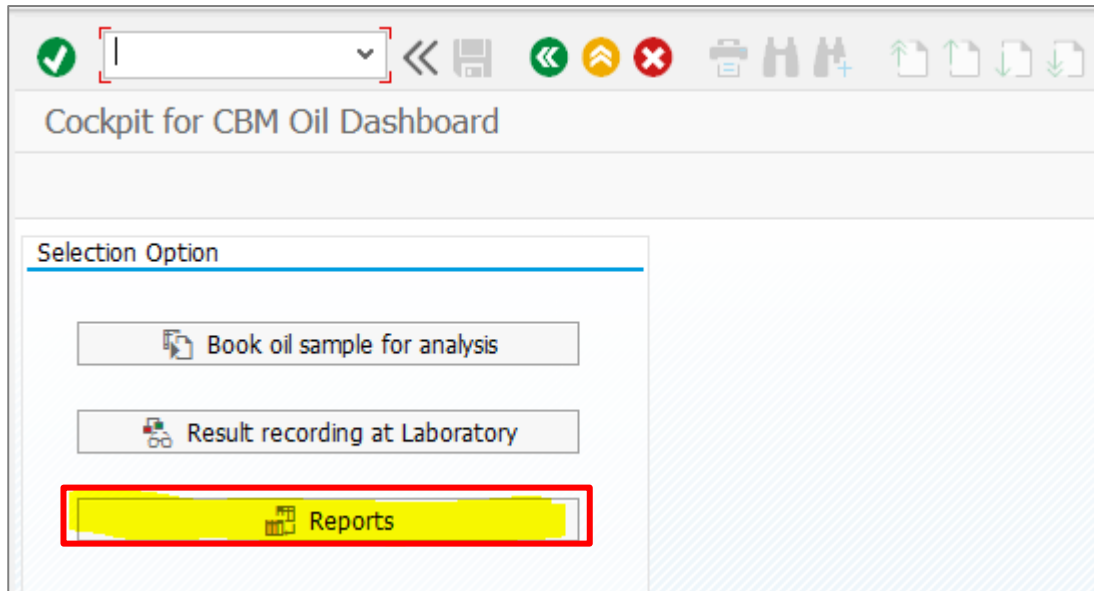
Date of Sending 24.12.2021 Email ID RK00722310@TECHMAHINDRA.COM

Sub Assembl...	F...	Manufactu...	Superior E...	F...	Manufactu...	Subassem...	WHR - Su...	Plant	Oil Grade	Oil Make	Oil Hour	Date Sample	Sample ID	Remark on Report	Action taken at plant- I...	User data
90000623		6020507	10000186		60205	TRANSMISS...	1600	9667 B	CASTROL	1200	22.12.2021	01		IRON CONTENT LESS	Oil changed	Raptor
90000037		13000031	10000047		602005	ENGINE	2200	9667 D	HINDUSTAN	1300	22.12.2021	02				
90000630		2061907	10000187		13046	ENGINE	1500	9667 F	CASTROL	1600	22.12.2021	03		COPPER CONTENT LESS	Oil changed	Tricerat
90001640		8AA05765	10000063		206049	ENGINE	1700	9667 A	HINDUSTAN	1400	22.12.2021	04				
90001641		25365899	10000075		2540989	ENGINE	2000	9667 B	INDIAN OIL	1500	22.12.2021	05				
			10000033		201806904	GEARBOX	2200	9667 C	HINDUSTAN	1600	22.12.2021	06				

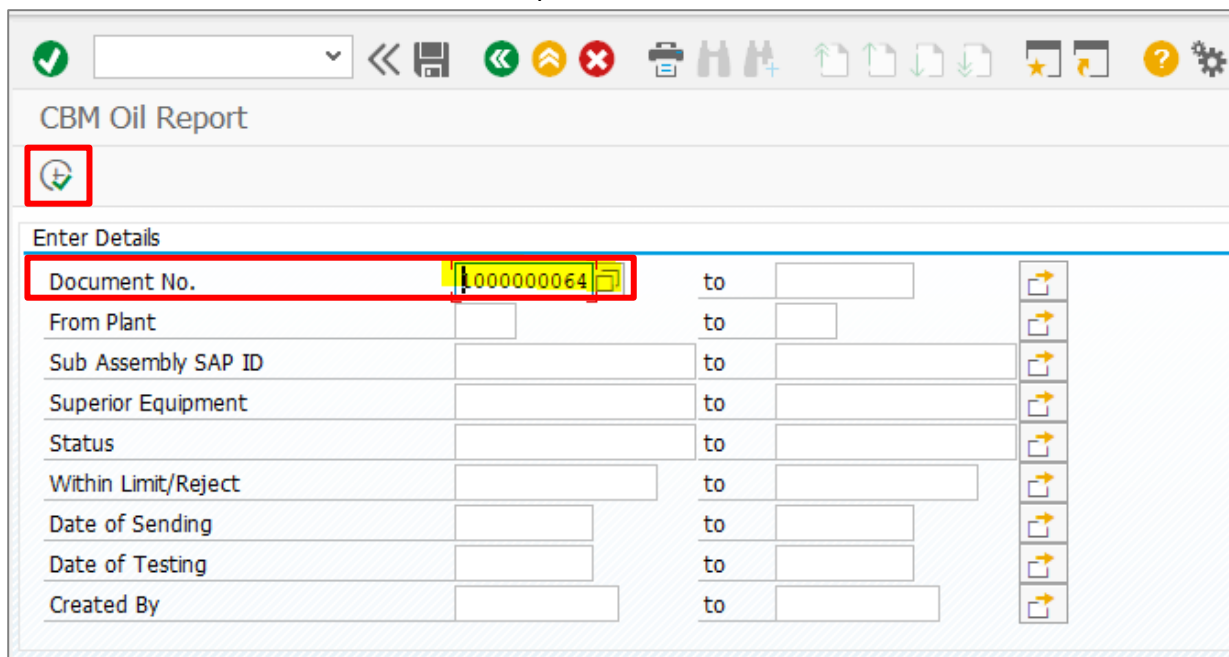
## Report on Oil Analysis

### CBM oil analysis reports

- I. Execute transaction code **ZPM\_CBM\_OIL** from SAP command field.
- II. Click **Reports** option to check the reports.



- III. Enter CBM oil analysis **Document No.**
- IV. Click the execute button to view the report.



Enter Details	
Document No.	1000000064
From Plant	
Sub Assembly SAP ID	
Superior Equipment	
Status	
Within Limit/Reject	
Date of Sending	
Date of Testing	
Created By	

**Note:** Report can be also searched from other selection criteria.



File Edit Goto Views Settings System Help

</

This report can be converted to excel sheet by clicking on the spreadsheet icon as marked in the above screenshot.

## Preventive Maintenance

### Preventive Maintenance (Single Cycle Plan)

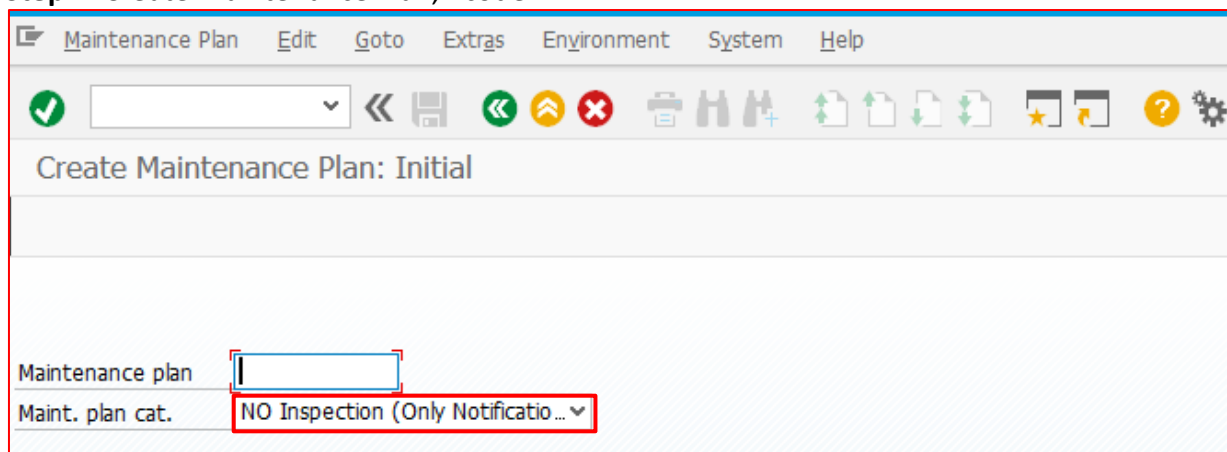
Single cycle plan has only one cycle. Upon completion of the cycle, call object (Notification/ Maintenance Order) will generated.

CIL has two Single Cycle types:

- Time-Based – 1M (M indicates Month)
- Performance Based – Running Hours 500 Hrs

**Navigation Path** : Logistics→Plant Maintenance→Preventive Maintenance→Maintenance Planning→Maintenance Plans→Create→Single Cycle Plan IP41

#### Step 1: Create Maintenance Plan, Tcode-IP41



**Create Maintenance Plan: Initial**

Maintenance plan:

Maint. plan cat.: **NO Inspection (Only Notificatio...**

**Step 2:**

Maintenance Plan
Edit
Goto
Extras
Environment
System
Help

Create Maintenance Plan: Single cycle plan

---

Maintenance plan

Maint. plan hea...

Maintenance plan cycle
Maintenance plan scheduling parameters
Maintenance plan additional data

---

Cycle/Unit
 DAY

Cycle text

Offset/Unit
 DAY

Counter

---

Item
Item location

---

Maintenance Item

---

Reference object

Functional loc.

Equipment
Dozer BD-155

Assembly

---

Planning data

Planning plant
Kamptee OC Mine
Planner group
IH-Planer 010

Notifictn type
All Dept Maintenance
Priority

Main WorkCtr
 / 
HEMM Dept, Dozer Section

Sales Document
 /

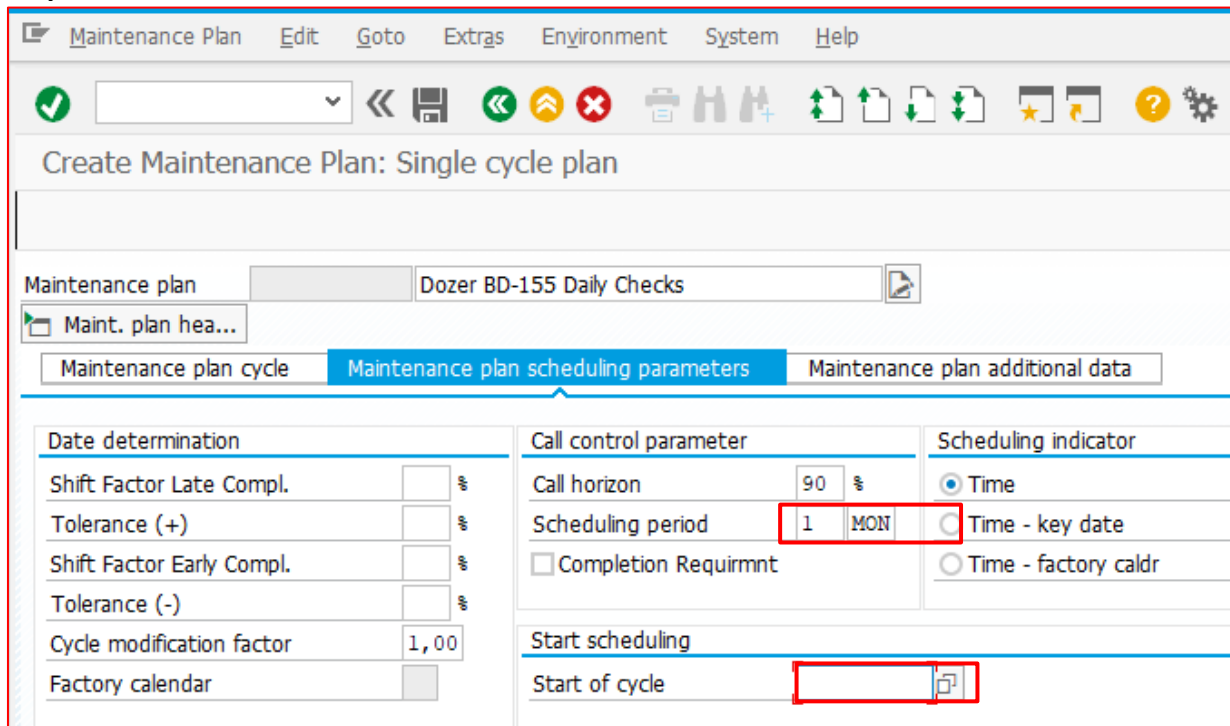
☐ Determine tasks

---

Task list

Cat	TL group	GrpCr	Description
A	10000008	L	Dozer BD-155 Daily Checks

**Step 3:**



Maintenance Plan Edit Goto Extras Environment System Help

Create Maintenance Plan: Single cycle plan

Maintenance plan Dozer BD-155 Daily Checks

Maint. plan hea...

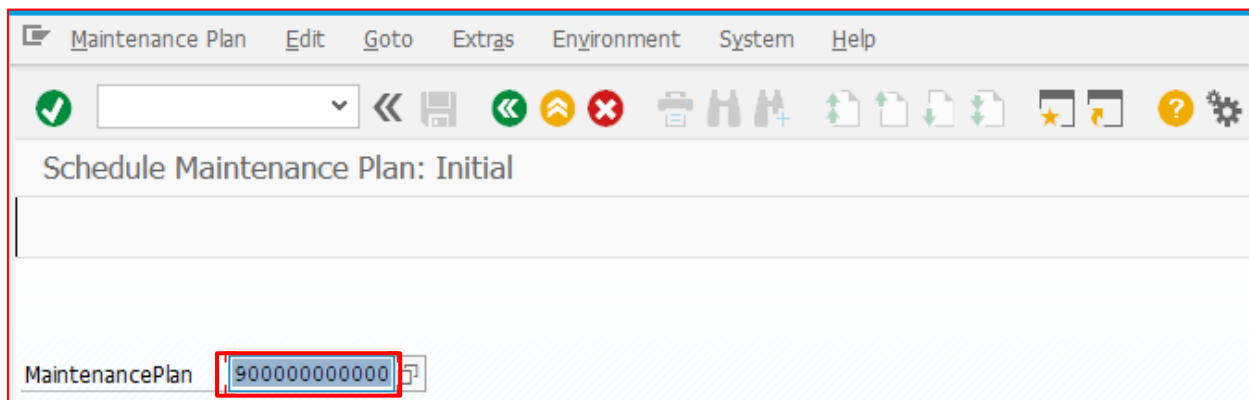
Maintenance plan cycle Maintenance plan scheduling parameters Maintenance plan additional data

Date determination	Call control parameter	Scheduling indicator
Shift Factor Late Compl.	Call horizon 90 %	<input checked="" type="radio"/> Time
Tolerance (+)	Scheduling period 1 MON	<input type="radio"/> Time - key date
Shift Factor Early Compl.	<input type="checkbox"/> Completion Requirmnt	<input type="radio"/> Time - factory caldr
Tolerance (-)		
Cycle modification factor 1,00	Start scheduling	
Factory calendar	Start of cycle	

**Step 4:** Press **Save Button**  or **Ctrl + S** to save the document

✓ Maintenance plan 900000000000 created

**Step 5:**



Maintenance Plan Edit Goto Extras Environment System Help

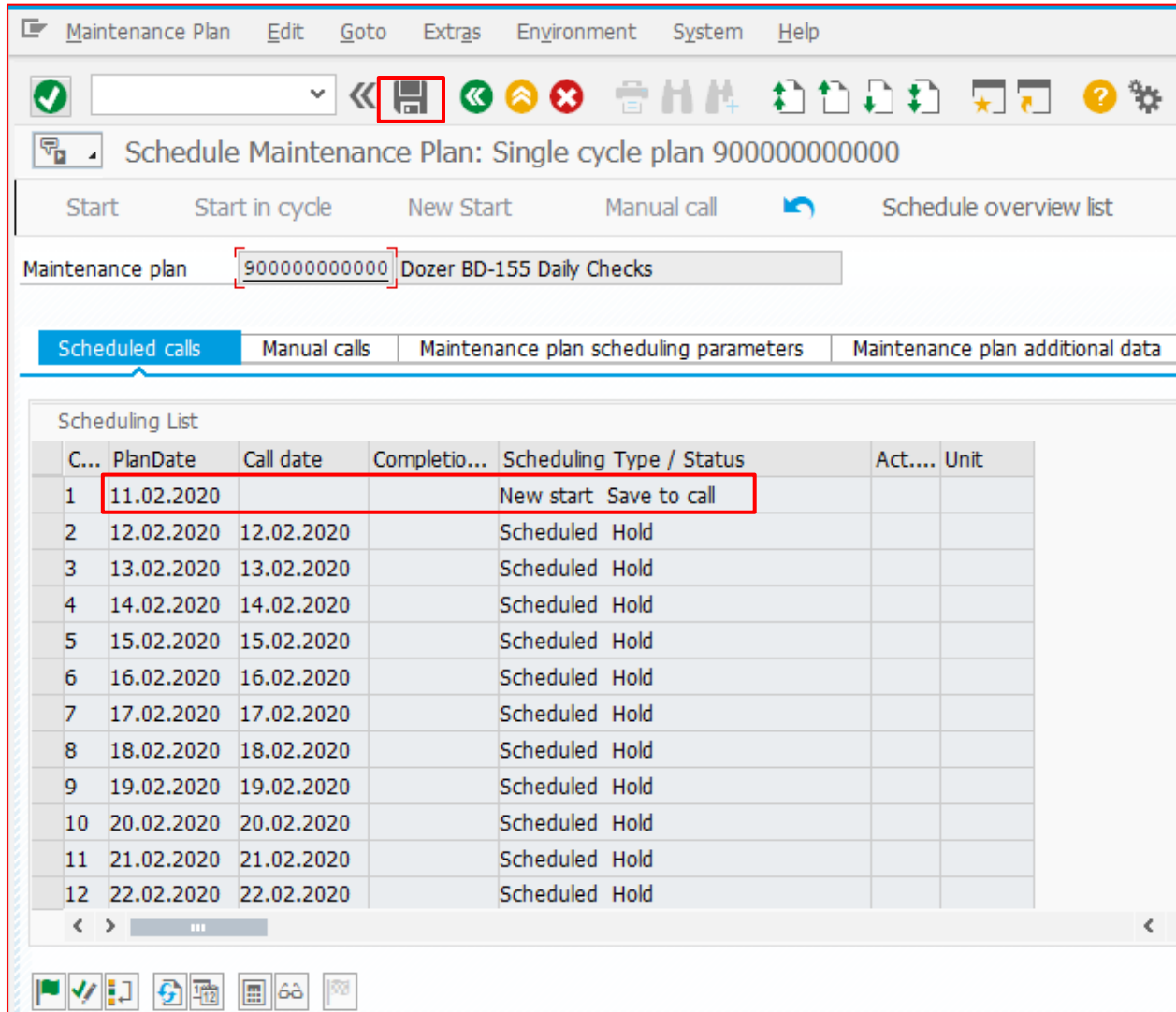
Schedule Maintenance Plan: Initial

MaintenancePlan 900000000000

[illegible]

The screenshot shows the 'Start Date' dialog box in SAP. The 'Start of cycle' row in the table has the date '10.02.2020' entered in the 'Act....' column. The date is highlighted with a red box. The dialog box has a title bar with a close button (X) and a table with columns 'Act....' and 'Unit'. At the bottom right, there are two buttons: a green checkmark and a red X.

**Step 8:**



Maintenance Plan Edit Goto Extras Environment System Help

Save Undo Redo Print Refresh Help

Schedule Maintenance Plan: Single cycle plan 900000000000


Start Start in cycle New Start Manual call Schedule overview list


Maintenance plan 900000000000 Dozer BD-155 Daily Checks

Scheduled calls Manual calls Maintenance plan scheduling parameters Maintenance plan additional data

Scheduling List

C...	PlanDate	Call date	Completi...	Scheduling Type / Status	Act....	Unit
1	11.02.2020			New start Save to call		
2	12.02.2020	12.02.2020		Scheduled Hold		
3	13.02.2020	13.02.2020		Scheduled Hold		
4	14.02.2020	14.02.2020		Scheduled Hold		
5	15.02.2020	15.02.2020		Scheduled Hold		
6	16.02.2020	16.02.2020		Scheduled Hold		
7	17.02.2020	17.02.2020		Scheduled Hold		
8	18.02.2020	18.02.2020		Scheduled Hold		
9	19.02.2020	19.02.2020		Scheduled Hold		
10	20.02.2020	20.02.2020		Scheduled Hold		
11	21.02.2020	21.02.2020		Scheduled Hold		
12	22.02.2020	22.02.2020		Scheduled Hold		

**Step 9:** Press **Save Button**  or **Ctrl + S** to save the document

 Maintenance plan 900000000000 scheduled

**Step 10: Scheduling Overview, Tcode-IP24**

Program Edit Goto System Help

Scheduling overview list form: Selection Criteria

Maintenance item selection

Maint. plan cat.		to		
MaintPlan sort field		to		
Maintenance Plan	900000000000	to		
Maintenance item		to		
Maintenance strategy		to		
Maint. item text		to		
Functional Location		to		
Equipment		to		
Assembly		to		
Material		to		
Serial Number		to		
Settlement rule	<input checked="" type="radio"/> with or w/o <input type="radio"/> w/ <input type="radio"/> w/o			
<input type="checkbox"/> with object list				

List Edit Goto Environment Settings System Help

Scheduling overview list form: Maintenance Scheduling Overview List

	Maintenance item	Maintenance Plan	Strategy	Maint. item text	Call Number	Start date	Notification
<input checked="" type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	1	11.02.2020	10000000016
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	2	12.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	3	13.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	4	14.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	5	15.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	6	16.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	7	17.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	8	18.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	9	19.02.2020	
<input type="checkbox"/>	1000000002	900000000000		Dozer BD-155 Daily Checks	10	20.02.2020	

**Step 11: Change Maintenance Order, Tcode-IW32**

Maintenance notification   Edit   Goto   Extras   Environment   System   Help

Change PM Notification: All Dept Maintenance

Notification: 1000000016   Z4 Dozer BD-155 Daily Checks

Notific. Status: OSNO

Order: [Icon]

Notification   Reference Object   Additional data 2   Malfunction, breakdown   Location data   Schedule

Reference object

Functional loc.:

Equipment: 10000002   Dozer BD-155

Assembly:

Subject

Description: Dozer BD-155 Daily Checks

Responsibilities

Planner group: 010 / 9667   IH-Planer 010

Main WorkCtr: PM-WC01 / 9667   HEMM Dept, Dozer Section

Reported by: SK617126   Notif.date: 11.02.2020 18:44:40

Start/End Dates

Required Start: 11.02.2020 00:00:00   Priority: [Dropdown]

Required End: 11.02.2020 00:00:00   ☐ Breakdown

Item

Object part:

Damage:

Text:

Cause:

Cause text:

Entry   1 frm   0



**Step 12:**

Change PM Notification: All Dept Maintenance

Notification: 1000000016 24 Dozer BD-155 Daily Checks

Notific. Status: OSNO

Order:

Notification Reference Object Additional data 2 Malfunction, breakdown Location data Sched

Create Order

Reference object

Functional location

Equipment

Assembly

Subject

Description

Order Type: ZPM2

Planning plant: 9667

Business Area

Main work center: PM-WC01 / 9667 HEMM Dept, Dozer Section

**Step 13:**

Order Edit Goto Extras Environment System Help

Create Preventive Maintenance Order : Central Header

Order: ZPM2 1000000000001 Dozer BD-155 Daily Checks

Sys.Status: CRTD MANC

HeaderData Operations Components Costs Objects Additional Data Location Planning

Person responsible

PlannerGrp: 010 / 9667 IH-Planer 010

Mn.wk.ctr: PM-WC01 / 9667 HEMM Dept, Doze...

Notification: 1000000016

Costs: INR

PMActType

SystCond.

Dates

Bsc start: 11.02.2020

Basic fin.: 11.02.2020

Priority

Revision

Reference object

Func. Loc.

Equipment: 10000002 Dozer BD-155

Assembly

First operation

Operation: Dozer BD-155 Daily Checks

WkCtr/Plnt: PM-WC01 / 9667

Ctrl key: PM01

Acty Type: 100008

Work durtn: HR

Person. no

CcKey: 1 Calculate duration

Oprtn dur.: HR

Order Edit Goto Extras Environment System Help

✓ [Save Icon] [Back] [Forward] [Cancel] [Print] [Refresh] [Zoom In] [Zoom Out] [Zoom Reset] [Star] [Help] [Settings]

Create Preventive Maintenance Order : Component Overview

[Flag Icon] [Tools] [Views] [Print] [Refresh] [Zoom In] [Zoom Out] [Zoom Reset] [Star] [Help] [Settings]

Order ZPM2 000000000001 Dozer BD-155 Daily Checks

Sys.Status CRID MANC

HeaderData	Operations	Components	Costs	Objects	Additional Data	Location	Planning					
Item	Component	Description	L...	Reqmnt...	UM	IC	S..	SLoc	Plnt	Act	Batch	Proc. Category
0010	10400000000048	BALL BEARING		1	PC	L			9667	0010	1009082	Reservation for Order
0020												
0030												

Order Edit Goto Extras Environment System Help

✓ [Save Icon] [Back] [Forward] [Cancel] [Print] [Refresh] [Zoom In] [Zoom Out] [Zoom Reset] [Star] [Help] [Settings]

Change Preventive Maintenance Order 2000000004: Component Detail Gener

⏮ ⏪ ⏩ ⏭

Order 2000000004 Activity 0010

Material 10400000000048 BALL BEARING

Item 0010 Item cat. L

**General Data**

Component	
Plant	9667
Batch	1009082
Goods Recipient	
Reqmt Date	10.02.2020 22:00:00
Reservation	10000000045 1
Storage Loc.	
Sort String	
Unloading Point	
Offset	
Movement type	261

**Step 14:** Press **Save Button**  or **Ctrl + S** to save the document

✓ Order 2000000004 saved with notification 1000000016

**Step 15: Goods Issue, Tcode-MIGO**

Goods Receipt Settings System Help

Goods Issue Order 2000000004 - Sudeep Kademani

Show Overview Hold Check Post Help

Document Date 11.02.2020 Material Slip  
Posting Date 11.02.2020 Doc.Header Text  
1 Individual Slip

Line	St...	Mat. Short Text	OK	Qty in UnE	E...	SLoc	Order	Ac...	Co...	Batch	Valuation ...
1	●○○	BALL BEARING	✓	1	PC	CS-Sp...	2000000004	0010	WCL	1009082	

Material Quantity Where Reservation Batch Account Assignment

Movement type 261 - GI for order Stock type Unrestricted use

Plant Kamptee OC Mine 9667  
Storage Location CS-Spareparts C002  
Goods recipient  
Unloading Point  
Text

Item OK Line 1

**Step 16: Time Confirmation, Tcode-IW41**

Confirmation Edit Goto Environment System Help

Enter PM Order Confirmation: Initial Screen

Parameters

Confirmation No. of Operation

Confirmation

Order

Order 2000000004

Activity

Suboperation

Long-term order for

Functional loc.

Equipment

Confirmation Edit Goto Environment System Help

Enter PM Order Confirmation: Actual Data

Goods Movements Notification Object List Measurement Documents

Order 2000000004 Dozer BD-155 Daily Checks

Activity 0010 Dozer BD-155 Daily Checks

System Status REL

Confirmation Data

Confirmation 143

Work Center PM-WC01 67 HEMM Dept, Dozer Section

Personnel no.

Actual Work 4,0 HR Activity Type 100008

Wage type

Posting Date 11.02.2020

AcctIndicator

☒ Final Confirmtn ☒ No Remain. Work

☐ Clear Open Res. Remaining Work

Work Start 10.02.2020 22:00:00

Actual Duration

Work Finish 11.02.2020 19:14:36

Forecast End 24:00:00

Reason

Confirm. text

Long text exists

Total Confirmation Data

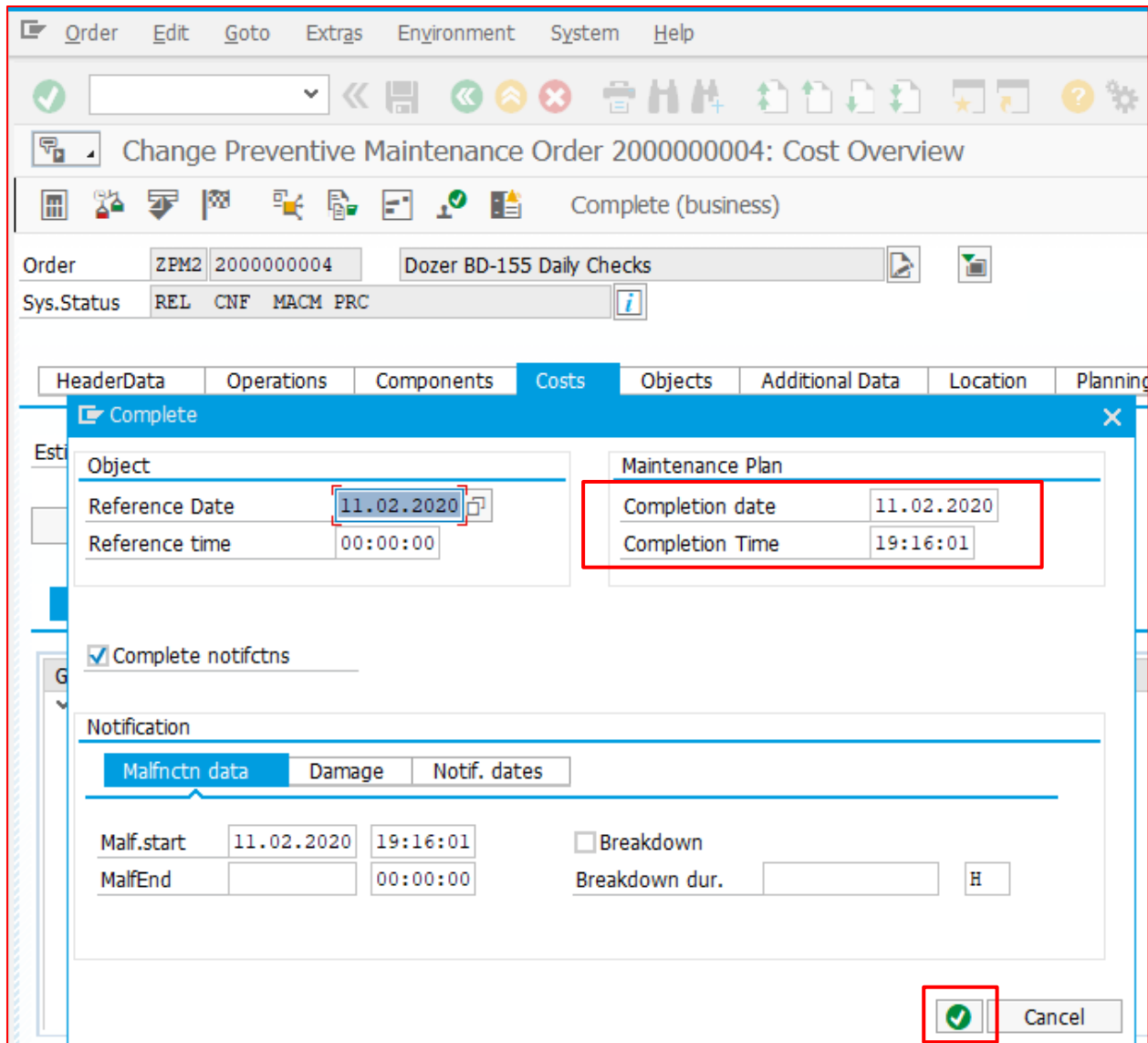
Cum.Actual Work 0,0 HR ActDuratn 0,0 HR

Forecast work 4,0 HR Planned Dur. 2,0 HR

Actual Start 00:00:00 Actual End 00:00:00

✓ Number of confirmations saved for order 2000000004: 1

**Step 17: Change Maintenance Order, Tcode-IW32**



Order: ZPM2 2000000004 Dozer BD-155 Daily Checks

Sys.Status: REL CNF MACM PRC

HeaderData Operations Components **Costs** Objects Additional Data Location Planning

**Complete**

Object

Reference Date: 11.02.2020

Reference time: 00:00:00

Maintenance Plan

Completion date: 11.02.2020

Completion Time: 19:16:01

☒ Complete notifctns

Notification

Malfnctn data Damage Notif. dates

Malf.start: 11.02.2020 19:16:01

MalfEnd: 00:00:00

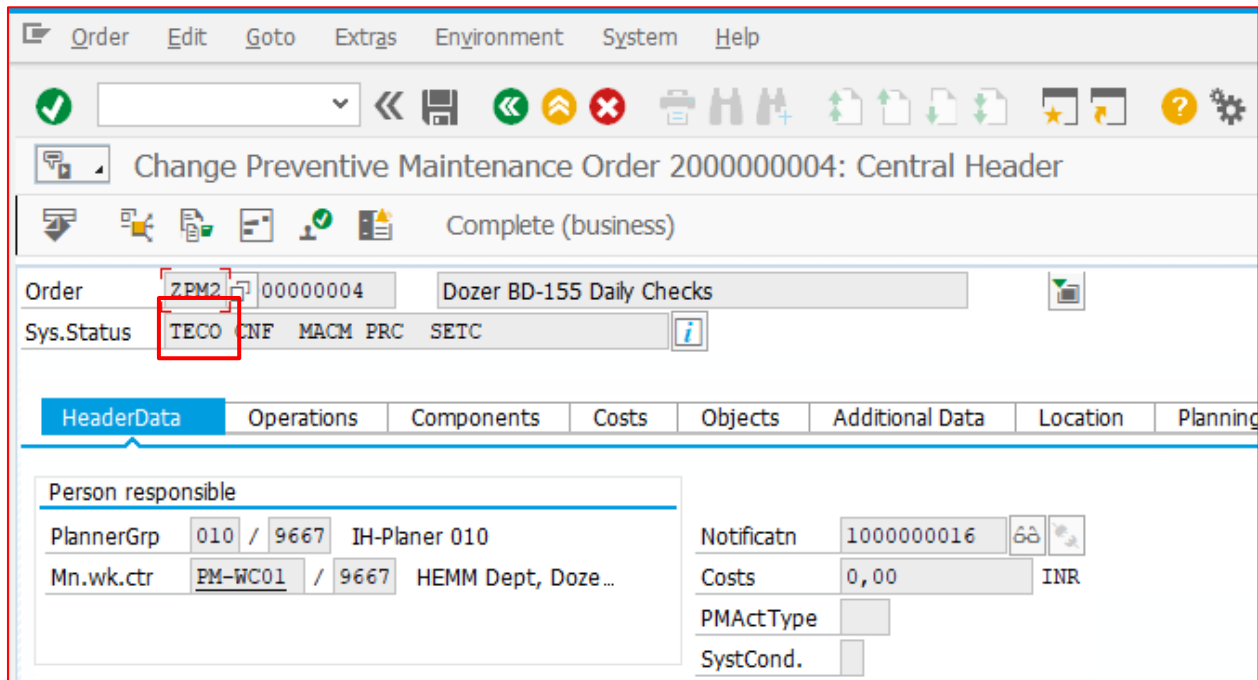
☐ Breakdown

Breakdown dur.: H

✓ Cancel

✓ Order 2000000004 saved with notification 1000000016

**Step 18:** Display Maintenance Order, Tcode-IW33



Order Edit Goto Extras Environment System Help

Change Preventive Maintenance Order 2000000004: Central Header

Complete (business)

Order **ZPM2** 00000004 Dozer BD-155 Daily Checks

Sys.Status **TECO** CNF MACM PRC SETC

HeaderData Operations Components Costs Objects Additional Data Location Planning

Person responsible

PlannerGrp 010 / 9667 IH-Planer 010

Mn.wk.ctr **PM-WC01** / 9667 HEMM Dept, Doze...

Notificatn 1000000016

Costs 0,00 INR

PMActType

SystCond.

## Preventive Maintenance (Strategy Plan)

Maintenance Strategy defines the rules for planned maintenance work to effectively manage risk, equipment reliability and contains the scheduling requirements. Maintenance package identifies the cycle interval for the maintenance strategy.

It contains general scheduling information and therefore be assigned to as many maintenance task list and maintenance plans as required.

Within a strategy there shall be many packages.

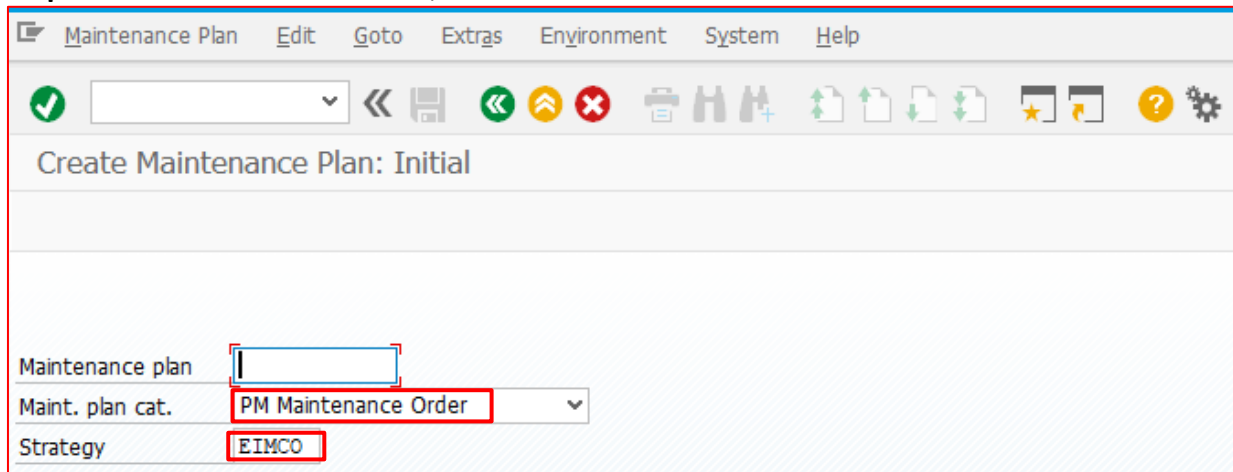
Strategy plans are maintenance plans with which we can show time-based or performance-based maintenance cycles and strategy plans can handle complex maintenance cycles.

SAP functionality for Strategy Based maintenance is divided into two distinct steps:

- A. Creation and Scheduling of Time-based strategy maintenance plans.
- B. Creation and scheduling of performance-based strategy maintenance plans.

**Navigation Path :** Logistics→Plant Maintenance→Preventive Maintenance→Maintenance Planning→Maintenance Plans→Create→Strategy Plan IP42

### Step 1: Create Maintenance Plan, Tcode-IP42



The screenshot shows the SAP Tcode IP42 - Create Maintenance Plan: Initial. The interface includes a menu bar (Maintenance Plan, Edit, Goto, Extras, Environment, System, Help) and a toolbar with various icons. The main area displays the title "Create Maintenance Plan: Initial". Below this, there are three input fields: "Maintenance plan" (empty), "Maint. plan cat." (set to "PM Maintenance Order"), and "Strategy" (set to "EIMCO").



[Maintenance Plan](#)
[Edit](#)
[Goto](#)
[Extras](#)
[Environment](#)
[System](#)
[Help](#)

### Create Maintenance Plan: Strategy plan

Maintenance plan

Maint. plan hea...

Maintenance plan cycle 07.02.2020
 Maintenance plan scheduling parameters
 Maintenance plan additional data

Counter 


 Operating Hours

Cycles

Cycle	Unit	Maintenance cycle text	Offset
50 H		50 Hrs Maintenance	0
100 H		100 Hrs Maintenance	0
500 H		500 Hours Maintenance	0

[Item](#)
[Object list item](#)
[Item location](#)
[Cycle item 07.02.2020](#)

Maintenance Item

### Reference object

Functional loc.	<input type="text" value="WCL-NGP-U-9675-SM5"/>	Saoner II UGM Coal Seam 5
Equipment	<input type="text" value="20000003"/>	LHD 811-788 1.1 CU.M 37 KW 550V
Assembly	<input type="text"/>	

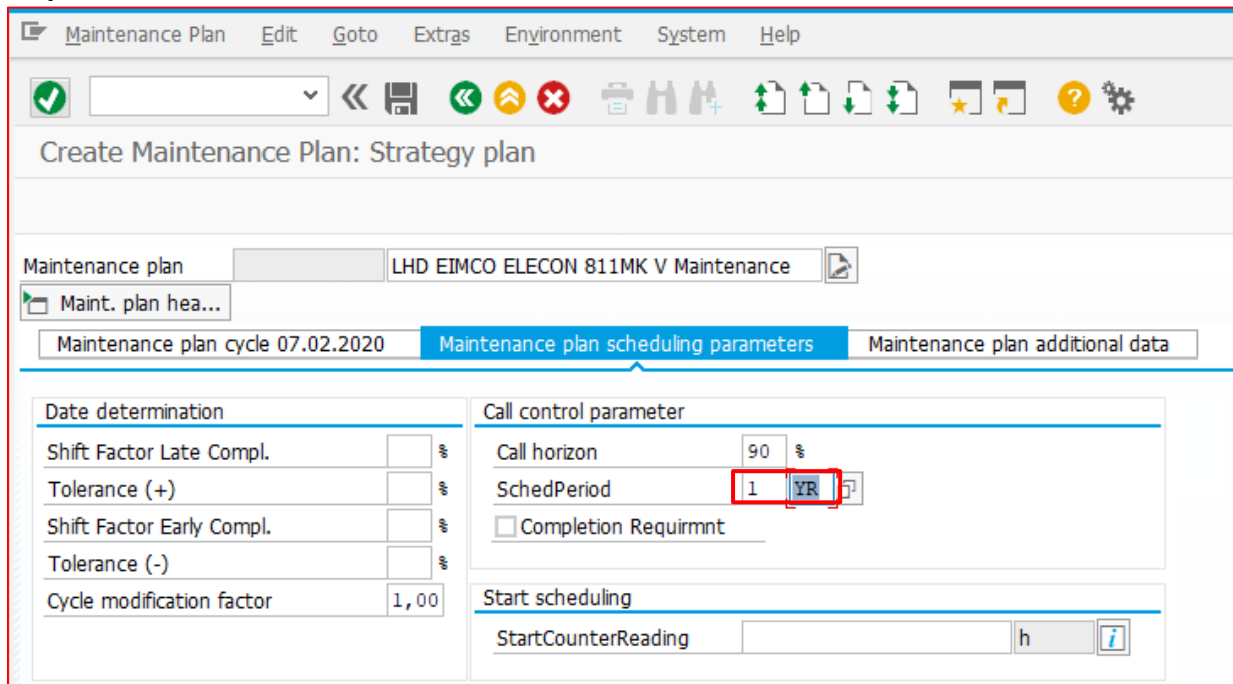
### Planning Data

Planning plant	<input type="text" value="9675"/> Saoner II UG Mine	Maint. Planner Group	<input type="text" value="010"/> IH-Planer 010
Order Type	<input type="text" value="ZPM2"/> Preventive Maintenance Order	MaintActivityType	<input type="text"/>
Main WorkCtr	<input type="text" value="PM-WC23"/> / <input type="text" value="9675"/> LHD,UDM, Man Rider	Business Area	<input type="text"/>
Priority	<input type="text"/>	Settlement Rule	
Sales Document	<input type="text"/> / <input type="text"/>		

### Task List

Typ	Task LstGrp	GrpCr	Description
A /	<input type="text" value="10000007"/>	/ 1	LHD-EIMCO ELECON 811MK V Strategy Maint

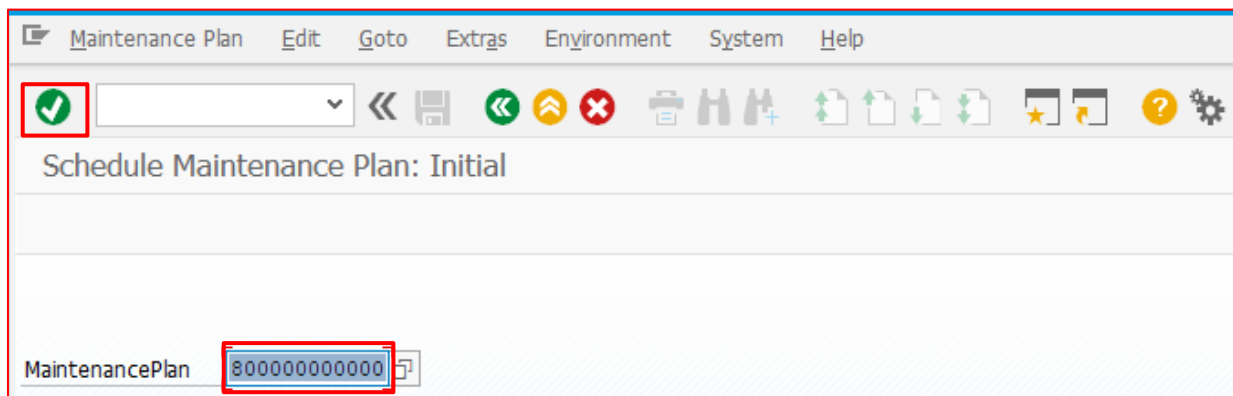
**Step 3:**



**Step 4:** Press **Save Button**  or **Ctrl + S** to save the document

 Maintenance plan 800000000000 created


**Step 5:** Schedule Maintenance Plan, Tcode-IP10



The screenshot shows the SAP Maintenance Plan configuration interface. The 'Start' button is highlighted with a red box. Below it, the 'Maintenance plan' field displays '800000000000' and 'LHD EIMCO ELECON 811MK V Maintenance'. The 'Scheduled calls' tab is selected. A modal window titled 'Start Counter Reading' is open, showing a table with columns 'CountReading' and 'Unit'. The 'Start of cycle' row has a red box around the 'CountReading' input field, which contains the value '0', and the 'Unit' field, which contains 'H'.

Maintenance Plan Edit Goto Extras Environment System Help


✓ [Dropdown] << [Save] [Undo] [Redo] [Print] [Home] [Back] [Forward] [Star] [Help] [Settings]

 Schedule Maintenance Plan: Strategy plan 800000000000

Start Start in cycle New Start Manual call ↶ Schedule overview list

Maintenance plan [800000000000] LHD EIMCO ELECON 811MK V Maintenance

Scheduled calls Manual calls Maintenance plan scheduling parameters Maintenance plan additional data

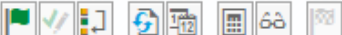
Counter [3]  Operating Hours

TotalCounterReading [ ] [10] [H]

Scheduling List

C...	PlanDate	Call date	Completo...	Due packages	Scheduling Type / Status	Act....	Unit
1	13.02.2020	13.02.2020		C1	New start Hold		
2	16.02.2020	15.02.2020		C2	Scheduled Hold		
3	18.02.2020	18.02.2020		C1	Scheduled Hold		
4	21.02.2020	20.02.2020		C2	Scheduled Hold		
5	23.02.2020	23.02.2020		C1	Scheduled Hold		
6	26.02.2020	25.02.2020		C2	Scheduled Hold		
7	28.02.2020	28.02.2020		C1	Scheduled Hold		
8	02.03.2020	02.03.2020		C2	Scheduled Hold		
9	04.03.2020	04.03.2020		C1	Scheduled Hold		
10	07.03.2020	07.03.2020		C3	Scheduled Hold		
11	09.03.2020	09.03.2020		C1	Scheduled Hold		
12	12.03.2020	12.03.2020		C2	Scheduled Hold		

< > ... <



✓ Maintenance plan 800000000000 scheduled

**Step 7:**Scheduling Overview,Tcode-IP24

Program Edit Goto System Help

Scheduling overview list form: Selection Criteria

Maintenance item selection

Maint. plan cat.		to		
MaintPlan sort field		to		
Maintenance Plan	800000000000	to		
Maintenance item		to		
Maintenance strategy		to		
Maint. item text		to		
Functional Location		to		
Equipment		to		
Assembly		to		
Material		to		
Serial Number		to		
Settlement rule	<input checked="" type="radio"/> with or w/o <input type="radio"/> w/ <input type="radio"/> w/o			
<input type="checkbox"/> with object list				

List Edit Goto Environment Settings System Help

Scheduling overview list form: Maintenance Scheduling Overview List

Maintenance item Maintenance plans

S	MaintItem	MntPlan	Strategy	Maint. item text	Call No.	Start date	Order
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	1	12.02.2020	2000000005
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	2	14.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	3	16.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	4	19.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	5	21.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	6	24.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	7	26.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	8	29.02.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	9	02.03.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	10	05.03.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	11	07.03.2020	
	1000000001	800000000000	EIMCO	LHD EIMCO ELECON 811M...	12	10.03.2020	

**Step 8: Change Maintenance Order, Tcode-IW32**

Order Edit Goto Extras Environment System Help

Change Order: Initial Screen

Header data Operations Components Costs Additional data Planning

Order 2000000005

Order Edit Goto Extras Environment System Help

Change Preventive Maintenance Order 2000000005: Central Header

Complete (business)

Order ZPM2 2000000005 LHD EIMCO ELECON 811MK V Maintenance

Sys.Status REL NMAT PRC

HeaderData Operations Components Costs Objects Additional Data Location Planning

Person responsible

PlannerGrp 010 / 9675 IH-Planer 010

Mn.wk.ctr PM-WC23 / 9675 LHD,UDM, Man Ri...

Notificatn

Costs 0,00 INR

PMActType

SystCond.

Dates

Bsc start 12.02.2020 Priority

Basic fin. 12.02.2020 Revision

Reference object

Func. Loc. WCL-NGP-U-9675-SM5 Saoner II UGM Coal Seam 5

Equipment 20000003 LHD 811-788 1.1 CU.M 37 KW 550V

Assembly

First operation

Operation STEERING CcKey 2 Calculate work

WkCtr/Plnt PM-WC23 / 9675 Ctrl key PM01 Acty Type 100008 PRT

Work durtn 1,0 HR Number 1 Oprtn dur. 1,0 HR Comp.

Person. no

Order Edit Goto Extras Environment System Help

Change Preventive Maintenance Order 2000000005: Operation Overview

Order ZPM2 2000000005 LHD EIMCO ELECON 811MK V Maintenance

Sys.Status REL NMAI PRC

HeaderData Operations Components Costs Objects Additional Data Location Planning

Act	S..	Work ctr	Plant	Co...	S..	S..	Operation short text	L...	Act...	W...	Un	N...	Dur.	Un	C.Key	ActTyp
0010		PM-WC23	9675	PM01			STEERING		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0020		PM-WC23	9675	PM01			CENTER PIVOT		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0030		PM-WC23	9675	PM01			LINK ASSEMBLY		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0040		PM-WC23	9675	PM01			CABLE REELER		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0050		PM-WC23	9675	PM01			GENERAL CHECKINGS		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0060		PM-WC23	9675	PM01			HYDRAULIC SYSTEM		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0070		PM-WC23	9675	PM01			TRANSMISSION		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0080		PM-WC23	9675	PM01			BRAKES		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0090		PM-WC23	9675	PM01			STEERING		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0100		PM-WC23	9675	PM01			DRIVE LINE (FRONT...		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0110		PM-WC23	9675	PM01			DRIVE LINE (REAR)		0,0	1,0	HR	1	1,0	HR	2 C...	100008
0120		PM-WC23	9675	PM01					0,0		HR			HR		
0130		PM-WC23	9675	PM01					0,0		HR			HR		
0140		PM-WC23	9675	PM01					0,0		HR			HR		
0150		PM-WC23	9675	PM01					0,0		HR			HR		

General Internal External Dates Act. Data Enhancement Ex. Factor



Order Edit Goto Extras Environment System Help

Change Preventive Maintenance Order 2000000005: Cost Overview

Complete (business)

Order ZPM2 2000000005 LHD EIMCO ELECON 811MK V Maintenance

Sys.Status REL NMAT PRC

HeaderData Operations Components **Costs** Objects Additional Data Location Planning

Estimated costs 0,00 INR

Val.in Object Curr. INR

Val.in CoAreaCurr. INR

Rep. Plan/Act. Rep. Budget/Commit.

Overview Costs Quantities Key figures

Group/Dscrptn	Est. costs	Plan costs	Act. costs	C.
Costs	0,00	1.100,00	0,00	INR
Internal Labor	0,00	1.100,00	0,00	INR

**Step 9:** Press **Save Button**  or **Ctrl + S** to save the document

✓ Order saved with number 2000000005

**Step 10:** Order Time Confirmation, Tcode-IW41

Confirmation Edit Goto Environment System Help

Enter PM Order Confirmation: Initial Screen

Parameters

Confirmation No. of Operation

Confirmation

Order

Order 2000000005

Activity

Suboperation

Long-term order for

Functional loc.

Equipment

✓ Number of confirmations saved for order 2000000005: 8

✓ Number of confirmations saved for order 2000000005: 3

**Step 11: Change Maintenance Order, Tcode-IW32**

Order Edit Goto Extras Environment System Help

Change Preventive Maintenance Order 2000000005: Cost Overview

Complete (business)

Order **ZPM2** **2000000005** **LHD EIMCO ELECON 811MK V Maintenance**

Sys.Status REL CNF NMAT PRC

HeaderData Operations Components **Costs** Objects Additional Data Location Planning

Estimated costs 0,00 INR

Val.in Object Curr. INR

Val.in CoAreaCurr. INR

Rep. Plan/Act. Rep. Budget/Commit.

Overview Costs Quantities Key figures

Group/Dscrptn	Est. costs	Plan costs	Act. costs	C.
Costs	0,00	1.100,00	1.100,00	INR
Internal Labor	0,00	1.100,00	1.100,00	INR

Order Edit Goto Extras Environment System Help

Change Preventive Maintenance Order 2000000005: Cost Overview

Complete (business)

Order **ZPM2** **2000000005** **LHD EIMCO ELECON 811MK V Maintenance**

Sys.Status REL CNF NMAT PRC

HeaderData Operations Components **Costs** Objects Additional Data Location Planning

**Complete**

Object

Reference Date **12.02.2020**

Reference time 06:10:05

Maintenance Plan

Completion date **12.02.2020**

Completion Time **06:10:05**

☒ Complete notifictns

☒ Create Measurement Documents Cancel

Order saved with number 2000000005

**Step 12:** Display Maintenance Order, Tcode-IW33

Order Edit Goto Extras Environment System Help

Display Preventive Maintenance Order 2000000005: Central Header

Order **ZPM2** **000000005** LHD EIMCO ELECON 811MK V Maintenance

Sys.Status **TECO** **CNF** **NMAT** **PRC** **SETC**

HeaderData Operations Components Costs Objects Additional Data Location Planning

Person responsible

PlannerGrp **010 / 9675** IH-Planer 010

Mn.wk.ctr **PM-WC23 / 9675** LHD,UDM, Man Ri...

Notificatn

Costs **0,00** INR

PMActType

SystCond.

Dates

Bsc start **12.02.2020** Priority

Basic fin. **12.02.2020** Revision

Reference object

Func. Loc. **WCL-NGP-U-9675-SM5** Saoner II UGM Coal Seam 5

Equipment **20000003** LHD 811-788 1.1 CU.M 37 KW 550V

Assembly

First operation

Operation **STEERING** CcKey **2 Calculate work**

WkCtr/Plnt **PM-WC23 / 9675** Ctrl key **PM01** Acty Type **100008** ☐ PRT

Work durtn **1,0** HR Number **1** Oprtn dur. **1,0** HR ☐ Comp.

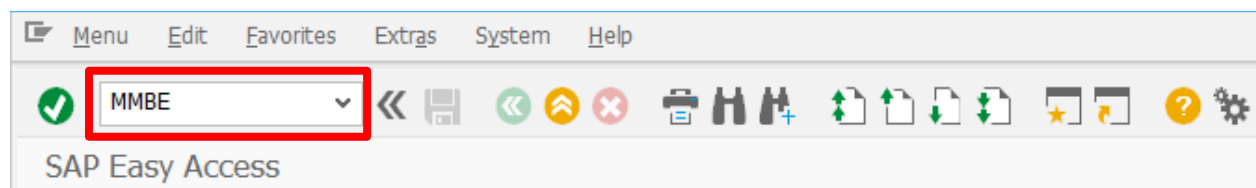
Person. no **0**

## Quality Inspection

### Work Instructions:

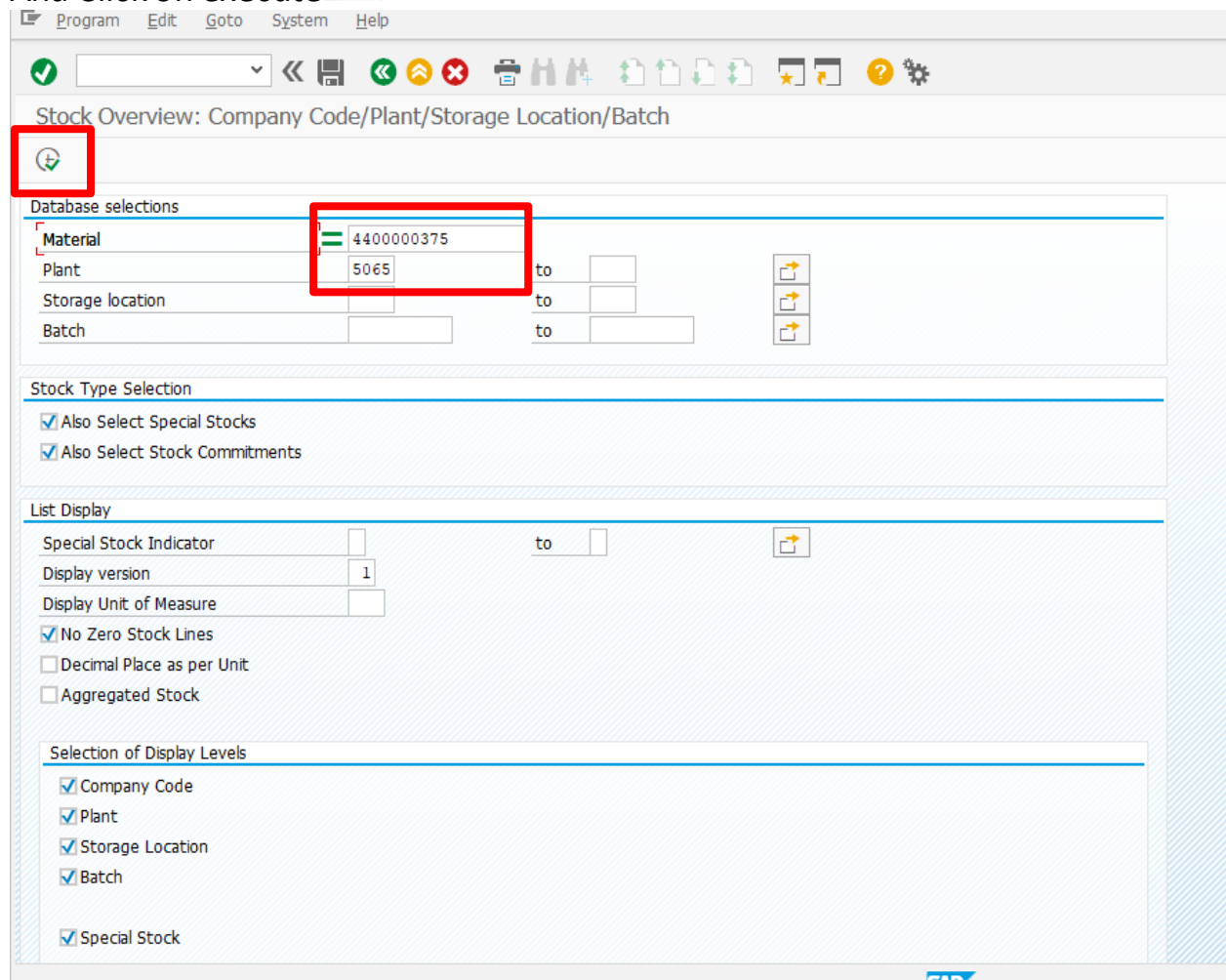
After Goods Receipt the stock will be in as (Receipt Section) Quality Inspection stock.

Enter the T-code for checking stock overview - MMBE



Enter the **Material number – 44000000375 & Plant - 5065**

And Click on execute 



Now we can observe the stock in for Quality Inspection (receipt section)

Stock Overview: Basic List

Selection

Material: 4400000375 roller pin Ext. Manufacturer  
Material Type: ZSPR HEMM Spare Parts  
Unit of Measure: PC Base Unit of Measure: PC

Stock Overview

Client/Company Code/Plant/Storage Location/Batch/Special Stock	RecValSit	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation	On-Order Stock
Full	0.000	113.000	50.000			4,197.000
MCL Mahanadi Coalfields Ltd	0.000	113.000	50.000			4,197.000
5065 Samleswari OC Mine	0.000	113.000	50.000			4,197.000
U002 US-Spare Parts	0.000	113.000	50.000			4,197.000

For Quality Inspection results and usage decision enter the T-code **QA32**

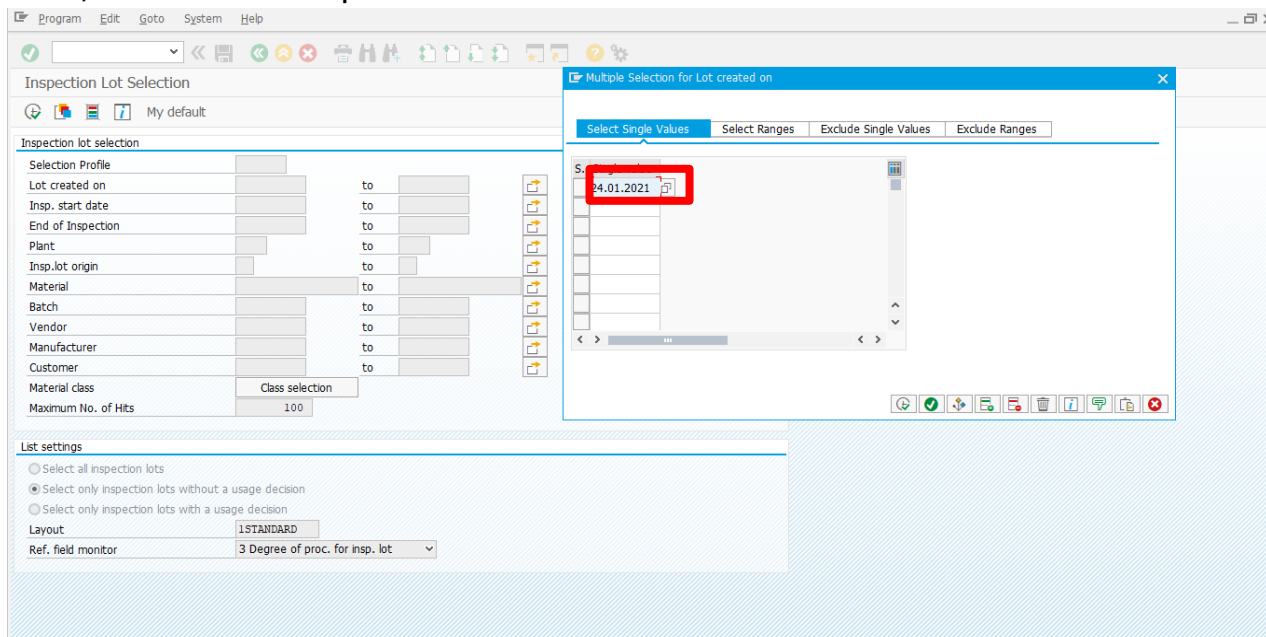
SAP Easy Access

Menu Edit Favorites Extras System Help

QA32

Press **ENTER**

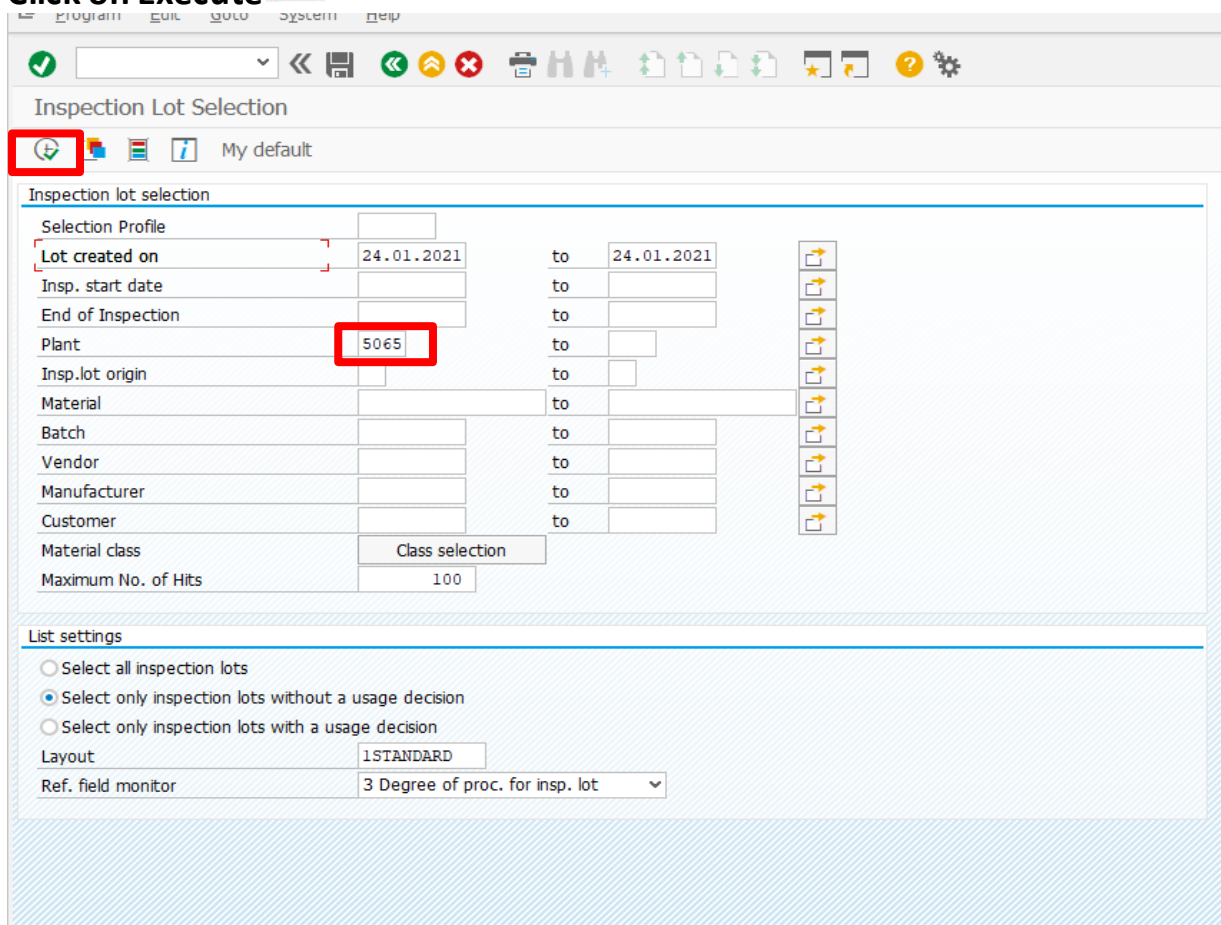
Now, Select  and put the **Dates** on which **Lot** created.



The screenshot shows the 'Inspection Lot Selection' window. A dialog box titled 'Multiple Selection for Lot created on' is open, showing a date '24.01.2021' selected. The main window has a 'Selection Profile' section with fields for 'Lot created on', 'Insp. start date', 'End of Inspection', 'Plant', 'Insp. lot origin', 'Material', 'Batch', 'Vendor', 'Manufacturer', 'Customer', 'Material class', and 'Maximum No. of Hits'. The 'List settings' section at the bottom has radio buttons for 'Select all inspection lots', 'Select only inspection lots without a usage decision', and 'Select only inspection lots with a usage decision'. The 'Layout' is set to '1STANDARD' and the 'Ref. field monitor' is '3 Degree of proc. for insp. lot'.

Now, enter the plant – 5065

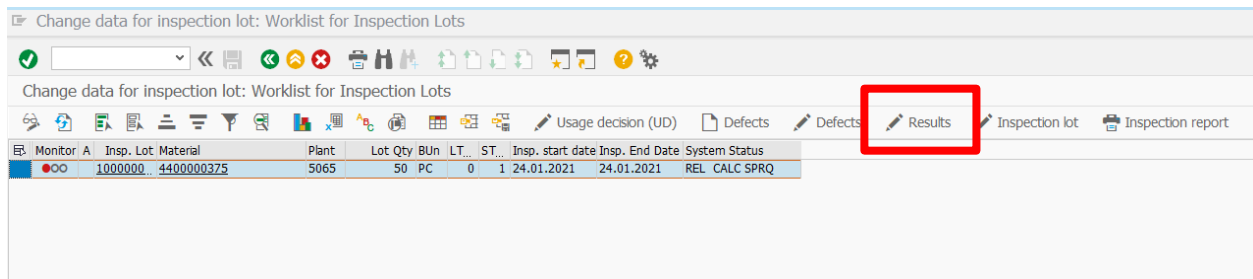
Click on Execute 



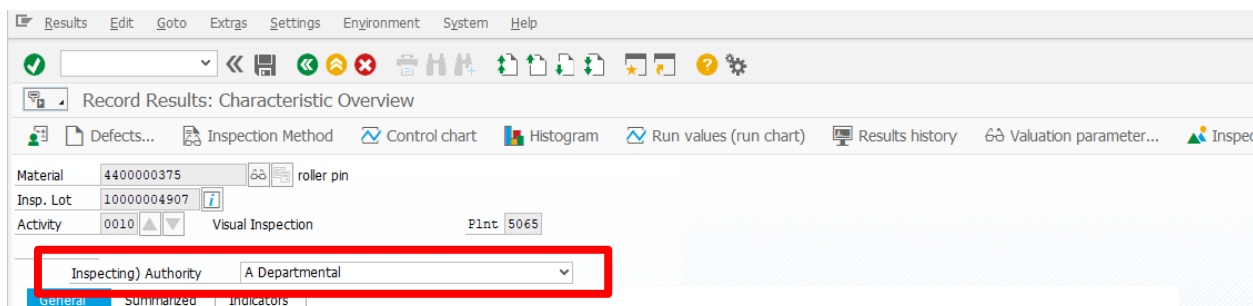
The screenshot shows the 'Inspection Lot Selection' window after entering the plant number '5065'. The 'Lot created on' field is set to '24.01.2021'. The 'Plant' field is highlighted with a red box. The 'Execute' button (a green circle with a white 'X') is highlighted with a red box. The 'List settings' section at the bottom has radio buttons for 'Select all inspection lots', 'Select only inspection lots without a usage decision', and 'Select only inspection lots with a usage decision'. The 'Layout' is set to '1STANDARD' and the 'Ref. field monitor' is '3 Degree of proc. for insp. lot'.

Press ENTER

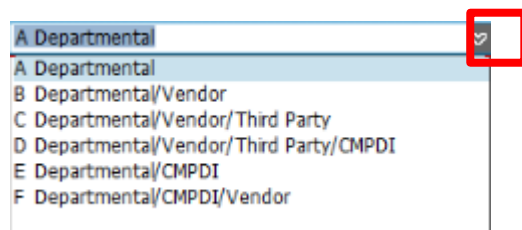
Now select the line and Click on **Result**



Select the **Inspecting Authority** according to by whom Inspection is going to perform.



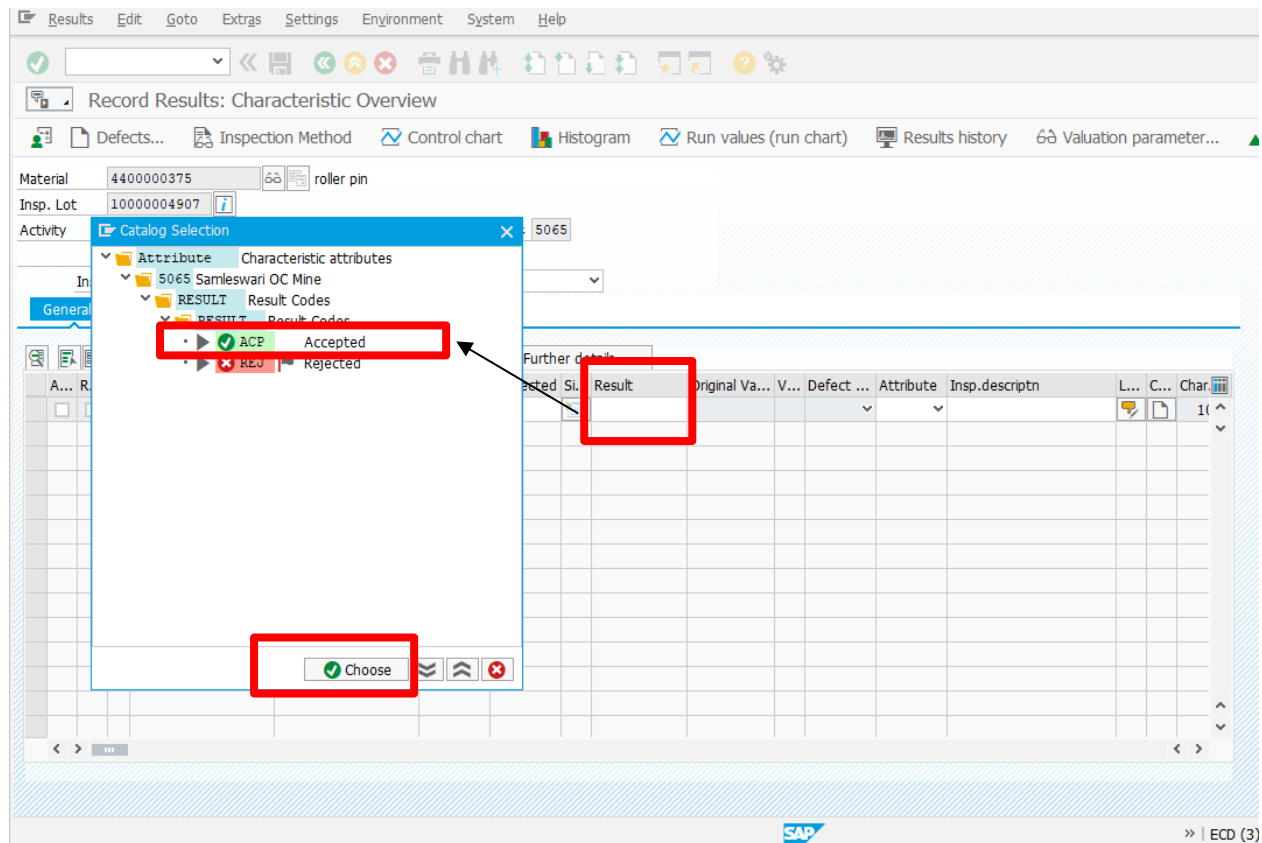
Click on dropdown and you will see the options for selecting inspection authority.



Explore **Result** column and select **Accepted** from Catalog Selection


And Click on 

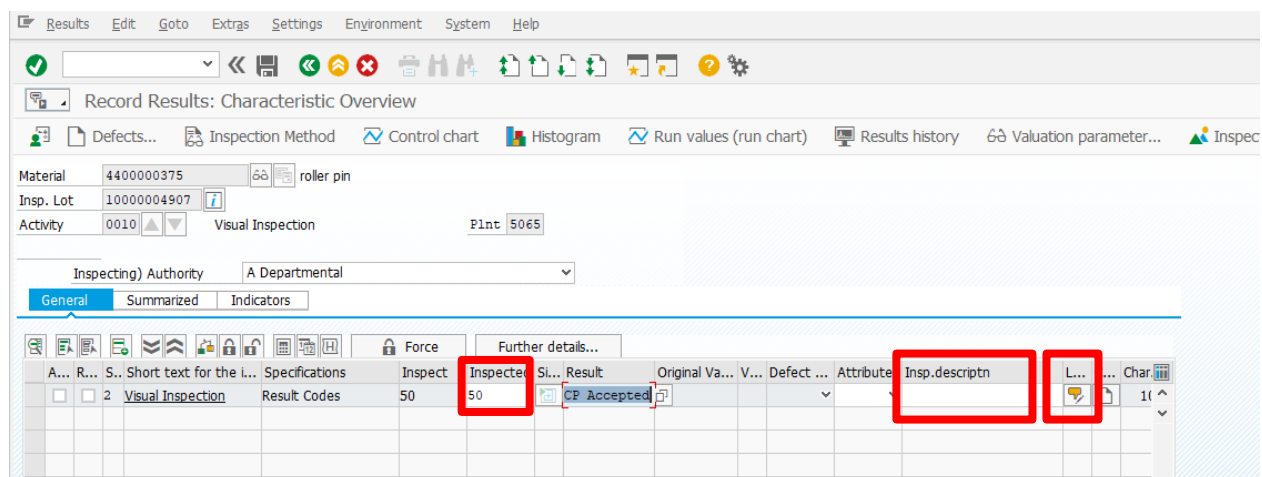




Enter the quantity in **Inspected** column.

We can enter Description about inspection done in **Inp. Description**.

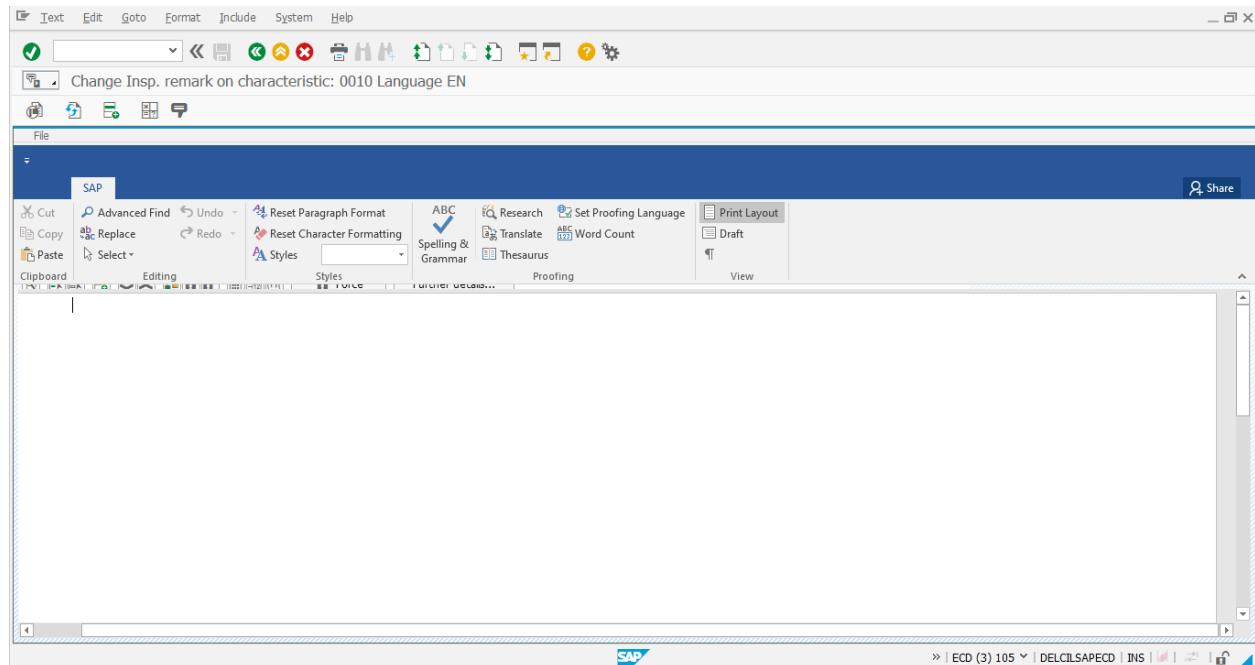
We can enter long description about inspection by clicking on 



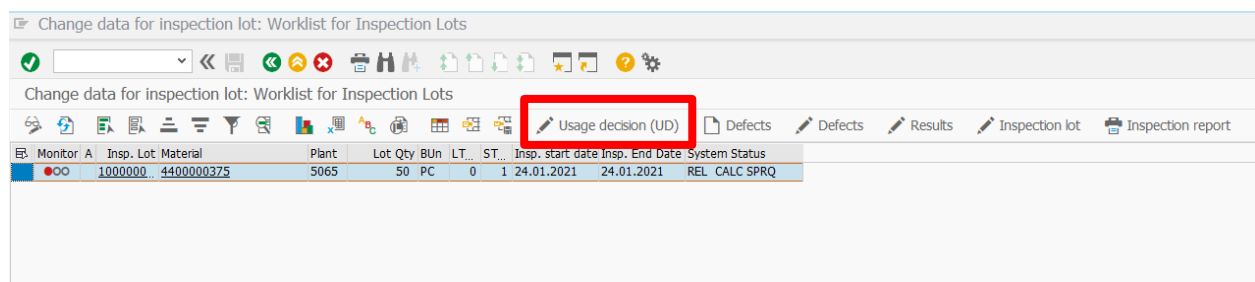
The following window is open as Word file in which you can enter the details of inspection.



After entering details click on back



Select line and click on **Usage Decision(UD)**.



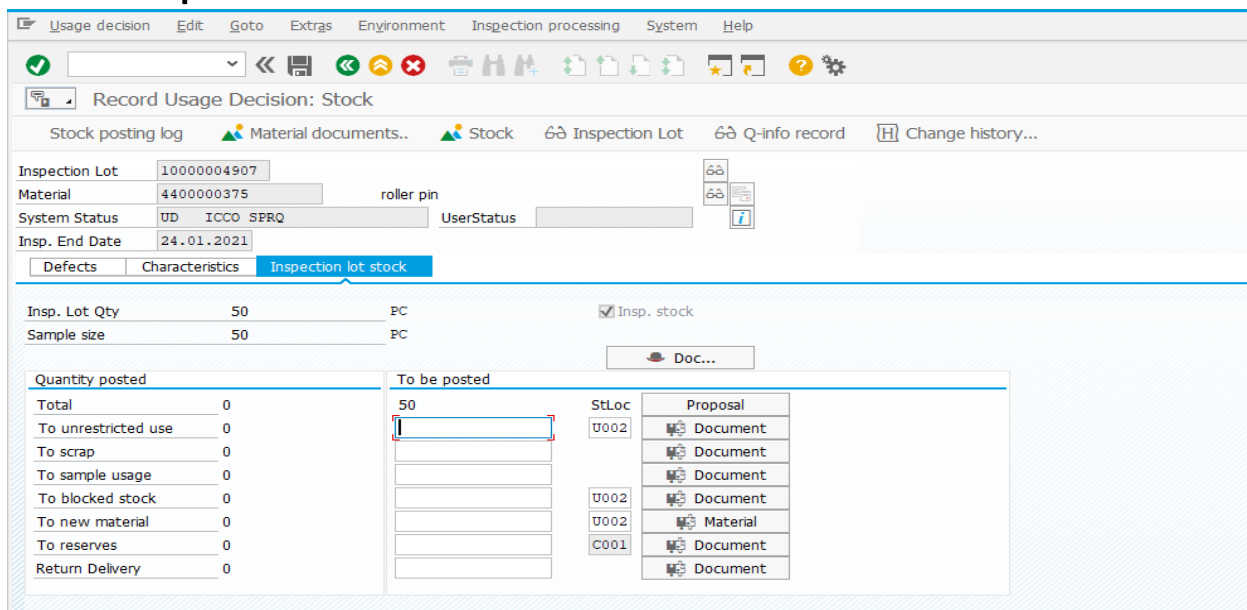
Click on **Charasteristics** tab.

Explore the **UD code** cell and Usage decision for inspection lot gets open and Select **Accept** from it.

Click on 



Click on **Inspection lot stock** tab.



Record Usage Decision: Stock

Stock posting log Material documents.. Stock Inspection Lot Q-info record Change history...

Inspection Lot 10000004907  
Material 4400000375 roller pin  
System Status UD ICCO SPRQ UserStatus  
Insp. End Date 24.01.2021


Defects Characteristics **Inspection lot stock**

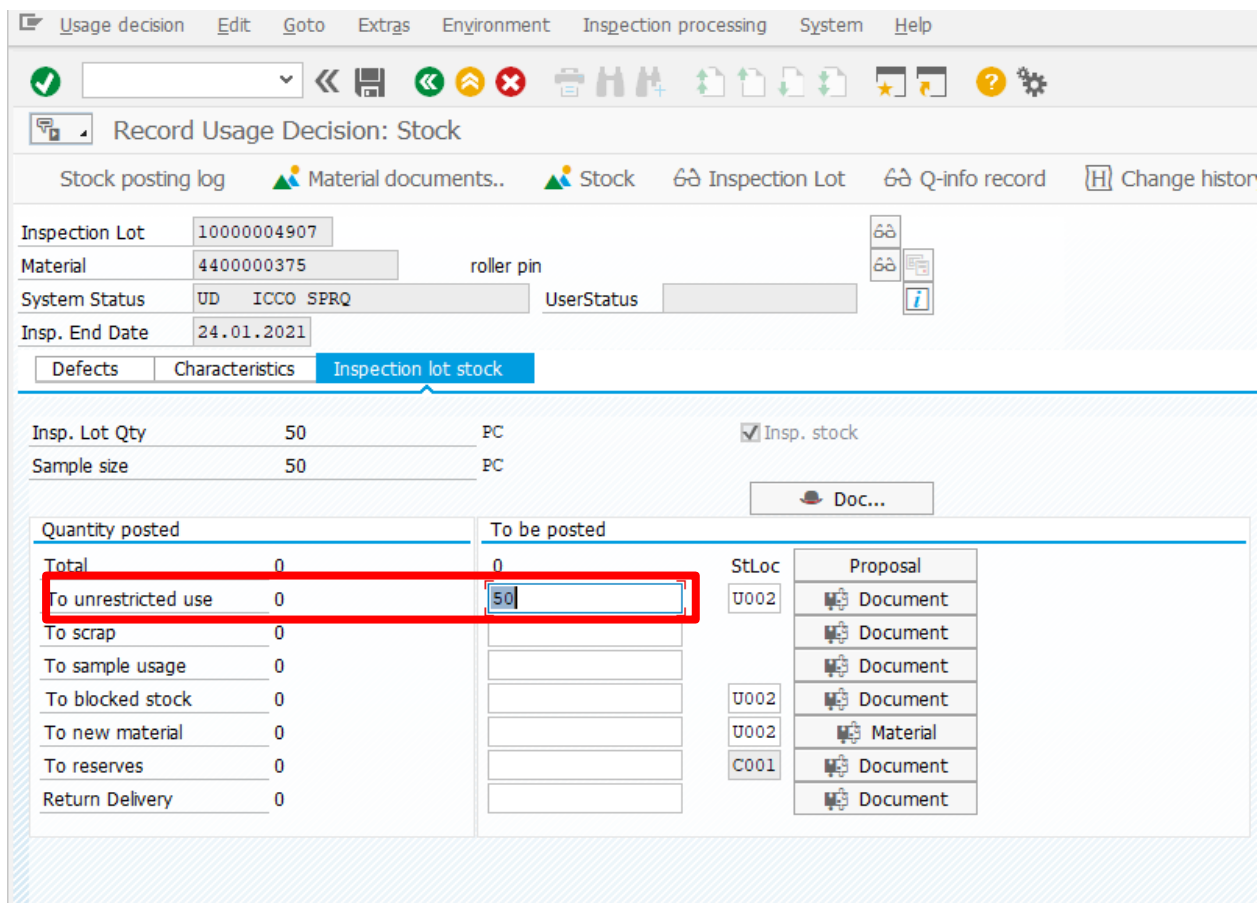
Insp. Lot Qty 50 PC ☒ Insp. stock  
Sample size 50 PC

Quantity posted To be posted

Quantity posted	To be posted	StLoc	Proposal
Total 0	50	U002	Document
To unrestricted use 0		U002	Document
To scrap 0		U002	Document
To sample usage 0		U002	Material
To blocked stock 0		C001	Document
To new material 0			
To reserves 0			
Return Delivery 0			

Enter the quantity inspected in **To unrestricted use**

Press **ENTER** and **save** 



Record Usage Decision: Stock

Stock posting log Material documents.. Stock Inspection Lot Q-info record Change history...

Inspection Lot 10000004907  
Material 4400000375 roller pin  
System Status UD ICCO SPRQ UserStatus  
Insp. End Date 24.01.2021

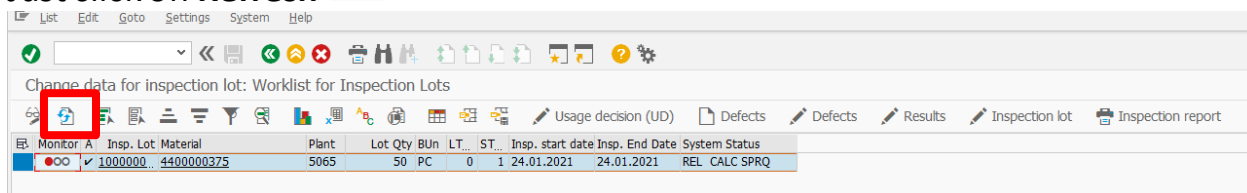
Defects Characteristics **Inspection lot stock**

Insp. Lot Qty 50 PC ☒ Insp. stock  
Sample size 50 PC

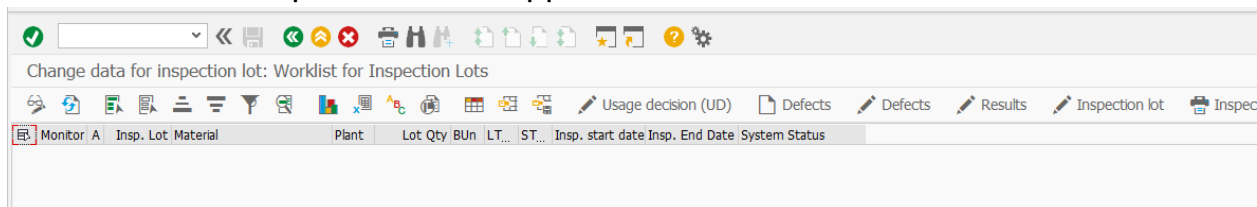
Quantity posted To be posted

Quantity posted	To be posted	StLoc	Proposal
Total 0	50	U002	Document
To unrestricted use 0		U002	Document
To scrap 0		U002	Document
To sample usage 0		U002	Material
To blocked stock 0		C001	Document
To new material 0			
To reserves 0			
Return Delivery 0			

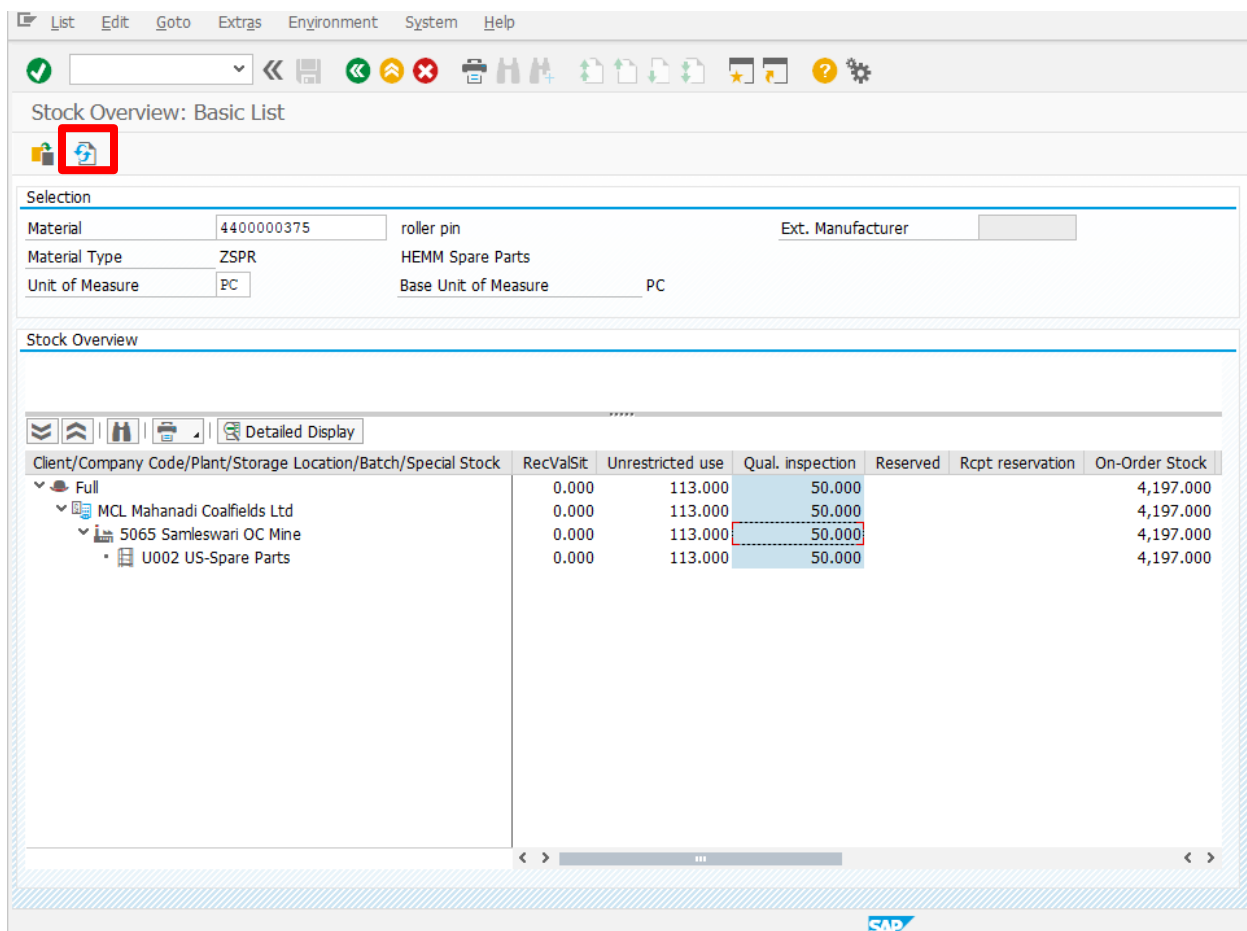
Just click on **Refresh**



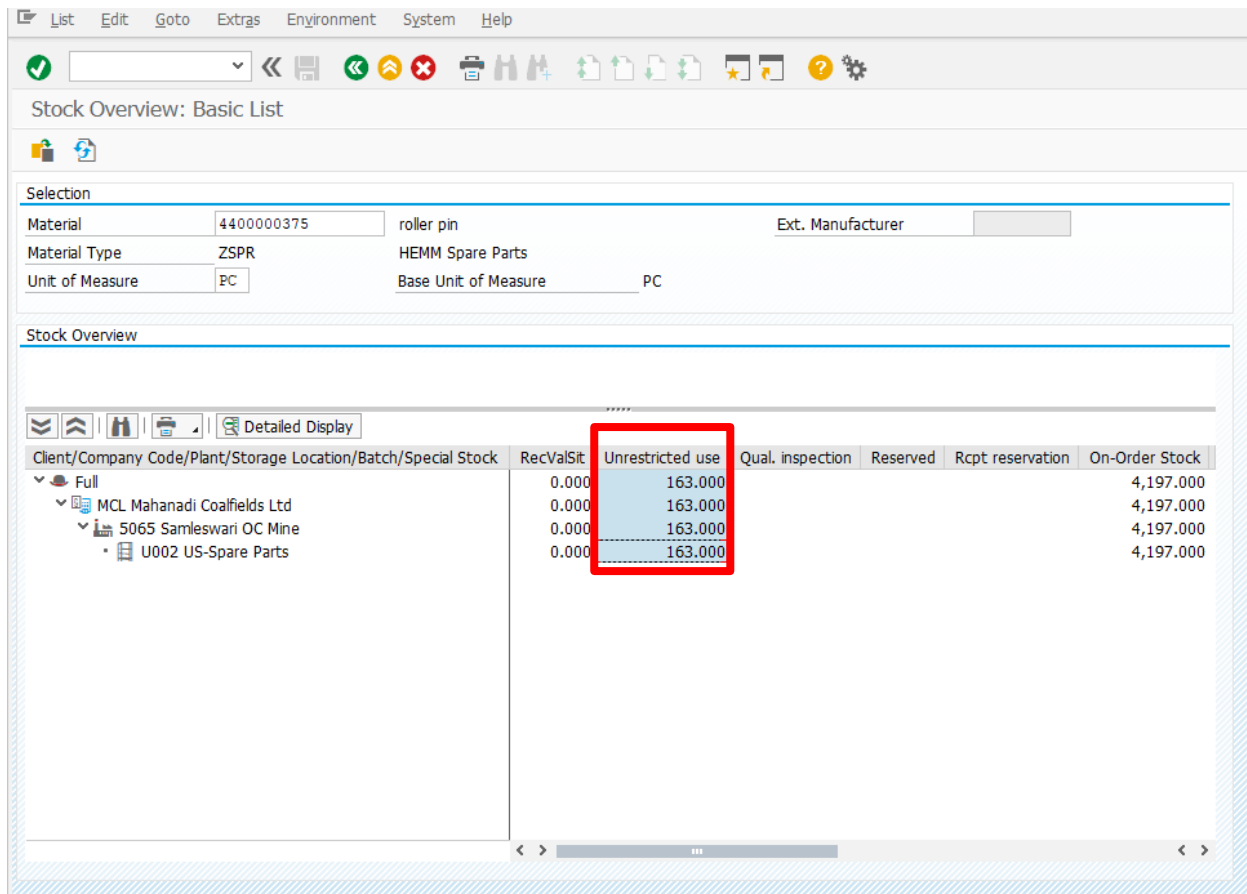
We can see the inspection lot disappears.



Go on the window in which Stock overview is opened and just refresh



The (Receipt Section) Inspection Stock is added to (Issue Section) unrestricted stock as shown in below image.



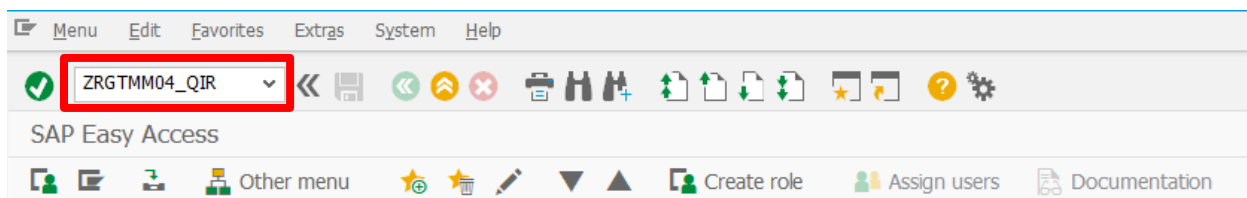
The screenshot shows the SAP Stock Overview: Basic List interface. The 'Selection' section at the top contains the following data:

Material	4400000375	roller pin	Ext. Manufacturer
Material Type	ZSPR	HEMM Spare Parts	
Unit of Measure	PC	Base Unit of Measure	PC

The 'Stock Overview' section displays a table with the following columns: Client/Company, Code/Plant/Storage, Location/Batch/Special Stock, RecValSit, Unrestricted use, Qual. inspection, Reserved, Rcpt reservation, and On-Order Stock. The data is as follows:

Client/Company	Code/Plant/Storage	Location/Batch/Special Stock	RecValSit	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation	On-Order Stock
Full			0.000	163.000				4,197.000
MCL Mahanadi Coalfields Ltd			0.000	163.000				4,197.000
5065 Samleswari OC Mine			0.000	163.000				4,197.000
U002 US-Spare Parts			0.000	163.000				4,197.000

For Quality Inspection Report Use T-code – **ZRGTMM04\_QIR**



The screenshot shows the SAP Easy Access menu. The 'Menu' dropdown is open, and 'ZRGTMM04\_QIR' is selected and highlighted with a red box.

Now enter the inspection lot number in **S\_LOT – 10000004907**

Enter the details

Inspected by -  
Received by –

Then click on execute



Program Edit Goto System Help

Quality Inspection Report

Quality Inspection Report

S\_LOT 10000004907

Inspected By

Name MR.ABC

Designation Inspector

Received By

Name MR.XYZ

Designation Clerk Issue Section

Print window will open

Enter **Output Device – LP01**

Click on

**Print Preview**

Program Edit Goto System Help

SAP

Print:

Output Device LP01

Spool Request

Name PBF000 SZ720660

Cover Page Text

Authorization

Spool Control

☐ Print Immediately

☐ Delete After Output

☐ New Spool Request

☐ Close Spool Request

Spool Retention 8 Day(s)

Storage Mode 1 Print only

Number of Copies

Number of Copies 1

Cover Page Settings

SAP Cover Page Do Not Print

Recipient(s)

Department


Print Print Preview



After Clicking on Print Preview Quality Inspection Report will display which we can take in printout form


Preview Edit Goto System Help

Print Preview, Document 1 of 1



Coal India Limited  
A Mahindra Group Company

Odisha  
PH: +91-663-2542461  
FAX: +91-663-2542770



### Quality Inspection Report

GR No. : 9300000161	Invoice No.: 1000555	Plant Name : Samleswari OC Mine
GR Date : Apr 17, 2020	Invoice Date:	Plant Code : 5065
Challan No:	Challan Date:	Order Vendor : 1000000006
PO No. : 5800000095	Doc. Date : Apr 17, 2020	Supply Vendor:
LR/RRNo. : 343535	LR/RR Date:	Vehicle No. : 537343
		Trns. Name : YASH TRANSPORT

### Inspecting Authority :

Sl No	Inspection Lot No	Material Code	Material Description	Manufacture PartNo	UOM	Net Price	Challan Quantity	Received Qty	Rejected Qty	Accepted Qty
1	010000004907	4400000375	roller pin	1040.18.01	PC	100	0	50	0	50

### Authorization Details

Inspected By	Received By
Mr.ABC	MR.XYZ
Inspector	Clerk Issue Section
	Authorized Signatory

## Calibration Maintenance process

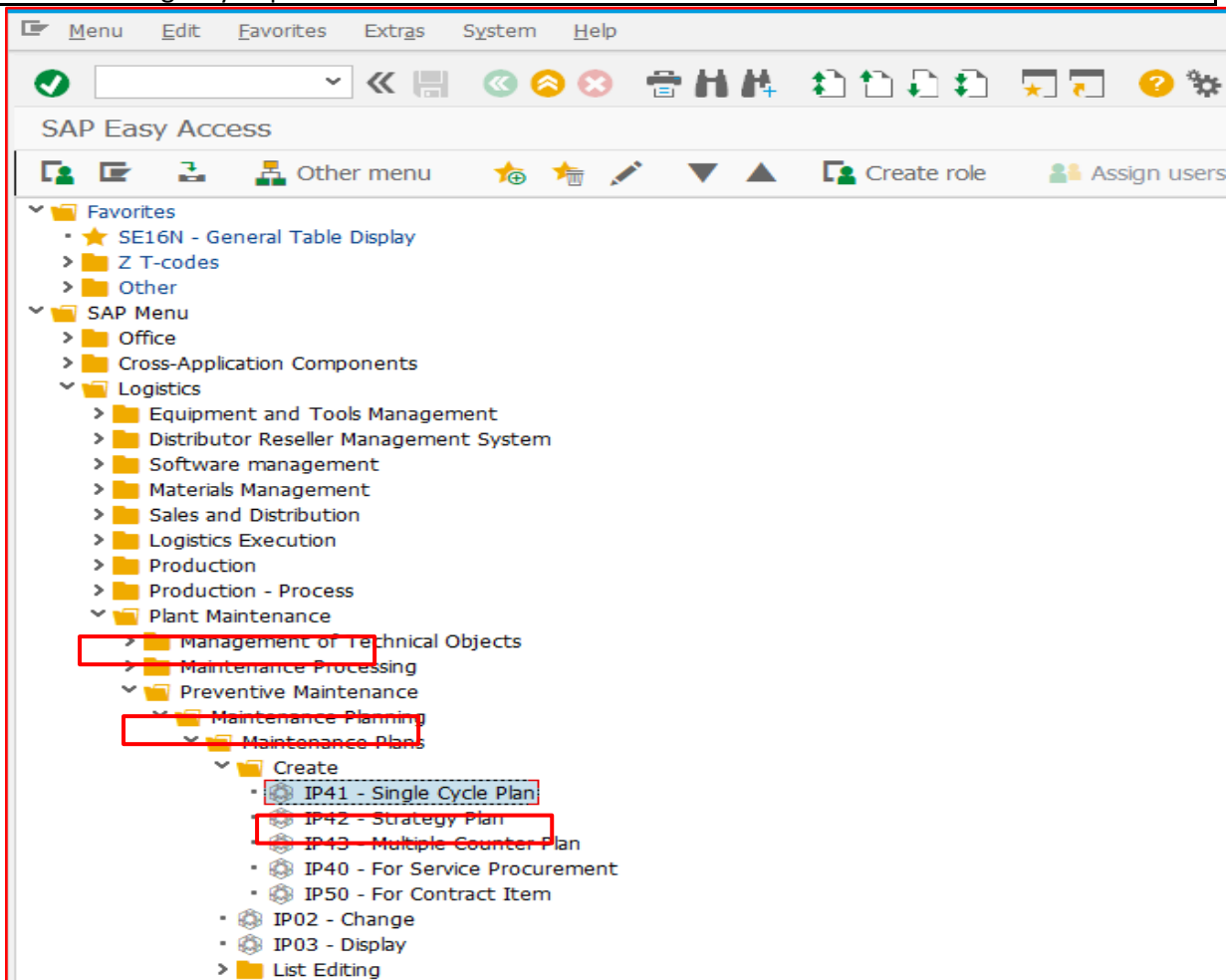
This process is applicable for all type of coal Mines and will be used by Excavation, E&M, E&T, Washery and system Departments where the testing Equipment's has to calibrate

Generally all testing Equipment, Diesel dispenser and Weighbridges need to be calibrated yearly or as per per due date as a statutory measure. Here Calibration service sheet will be generated through Single cycle Maintancne plan. After performing the calibration service by external agency , User has to create Calibration Maintenance order and need to confirm services.

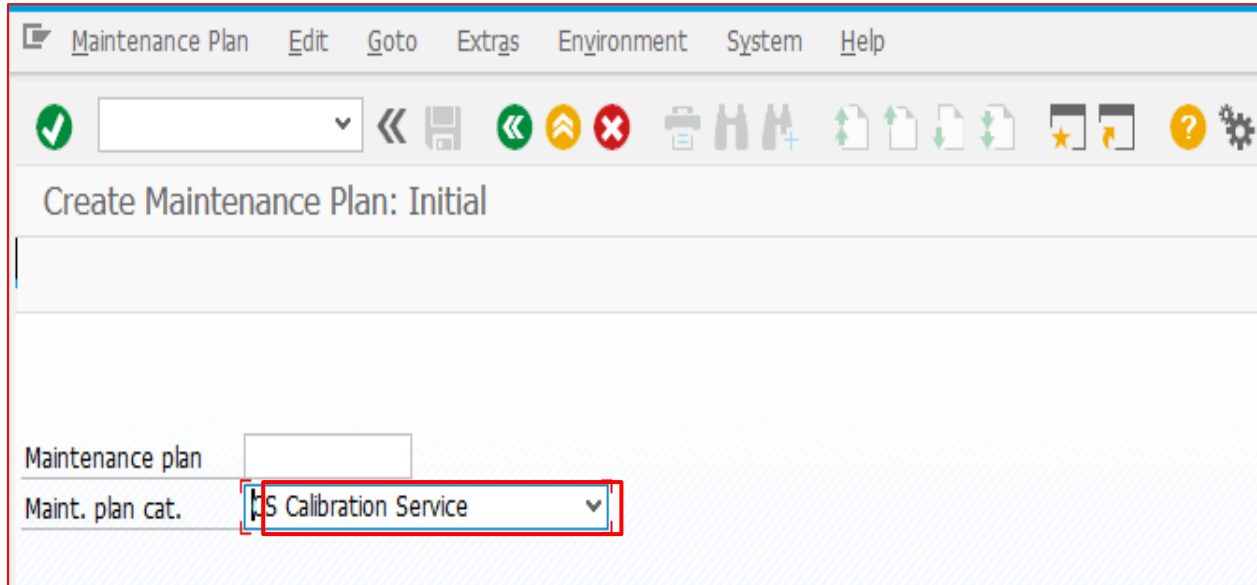
CS – Calibration Service

ZPM5 – Calibration Maintenance order

**Navigation Path :** Logistics→Plant Maintenance→Preventive Maintenance→Maitnenance plans→  
→Create Single Cycle plan IW21



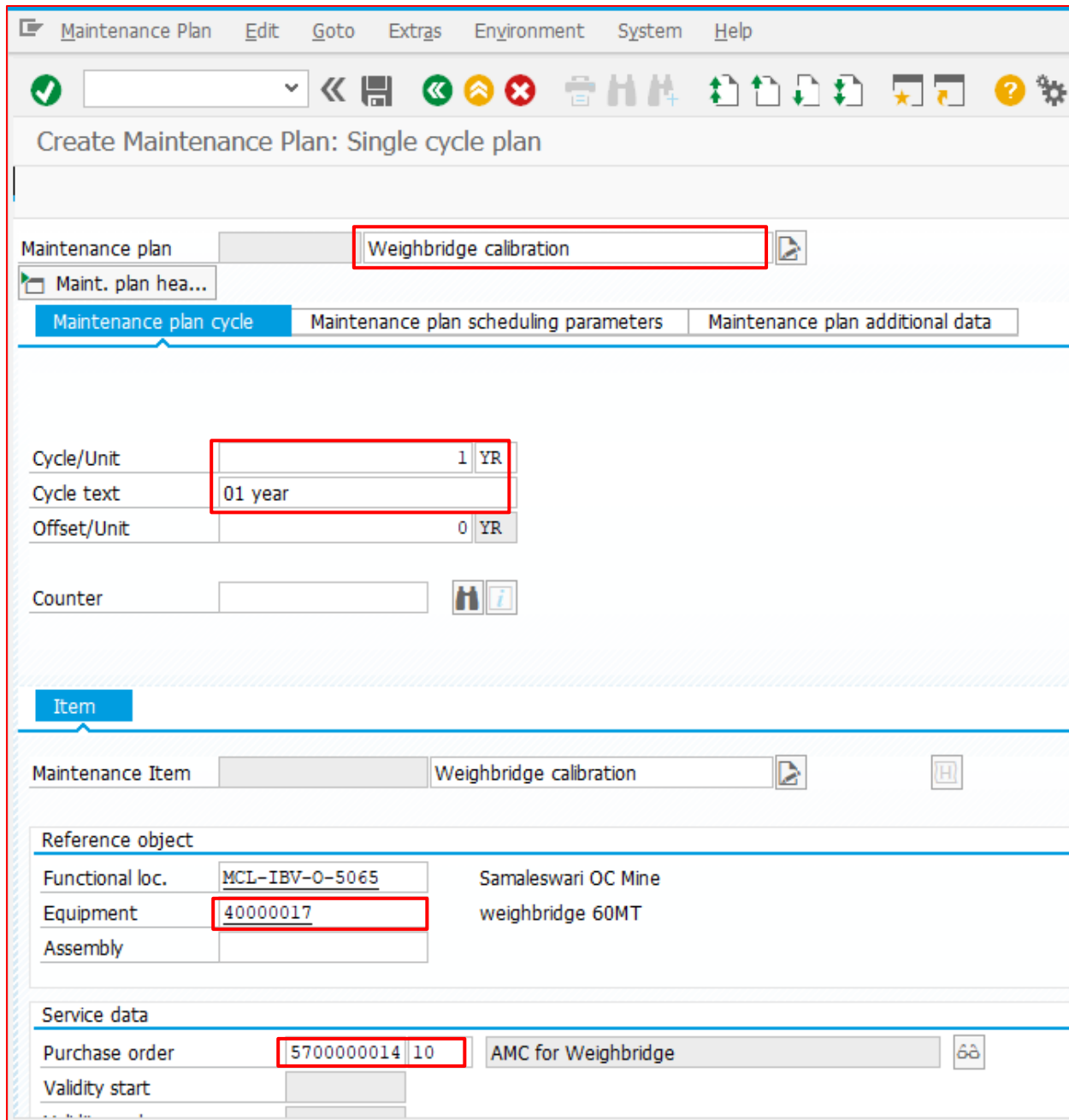
Step1: Create Single Cycle Maintenance plan, T code - **IP41**



The screenshot shows the SAP IP41 transaction interface. The title bar includes 'Maintenance Plan', 'Edit', 'Goto', 'Extras', 'Environment', 'System', and 'Help'. Below the title bar is a toolbar with various icons. The main area is titled 'Create Maintenance Plan: Initial'. At the bottom, there are two input fields: 'Maintenance plan' and 'Maint. plan cat.'. The 'Maint. plan cat.' dropdown menu is open, showing 'CS Calibration Service' as the selected option. A red box highlights the 'Maint. plan cat.' field and its dropdown menu.

- Select the Maintenance plan category as CS Calibration service. By selecting this Maintenance plan category call object will be generated as Service entry sheet (CS Calibration service sheet)
- Click on Enter

Step2: Maintenance plan cycle Details



Maintenance Plan Edit Goto Extras Environment System Help

Create Maintenance Plan: Single cycle plan

Maintenance plan Weighbridge calibration

Maint. plan hea...

Maintenance plan cycle Maintenance plan scheduling parameters Maintenance plan additional data

Cycle/Unit 1 YR

Cycle text 01 year

Offset/Unit 0 YR

Counter

Item

Maintenance Item Weighbridge calibration

Reference object

Functional loc. MCL-IBV-O-5065 Samaleswari OC Mine

Equipment 40000017 weighbridge 60MT

Assembly

Service data

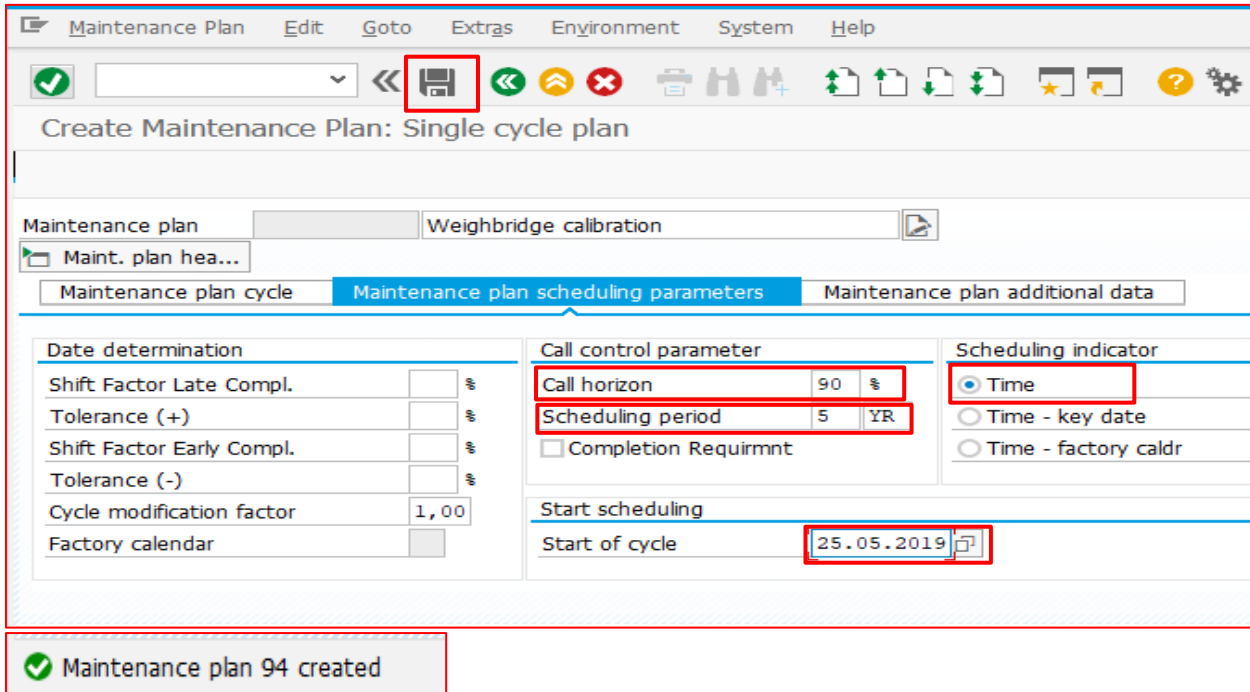
Purchase order 5700000014 10 AMC for Weighbridge

Validity start

- Enter the Maintenance plan short text i.e. Name of Maintenance plan
- Enter the Cycle/unit, Cycle text. Here for every 01 year Maintenance call object will be generated according to Maintenance plan
- Enter the Equipment Number. All the data related to Equipment will be fetched from Equipment Master

- Enter the purchase order Number and operation number for AMC of Weighbridge. Here concern Department will created the purchase order as per AMC. Before creating the Maintenance plan make sure purchase order should be created

### Step3: Maintenance plan scheduling parameters



Maintenance Plan Edit Goto Extras Environment System Help

Create Maintenance Plan: Single cycle plan


Maintenance plan Weighbridge calibration

Maint. plan hea...

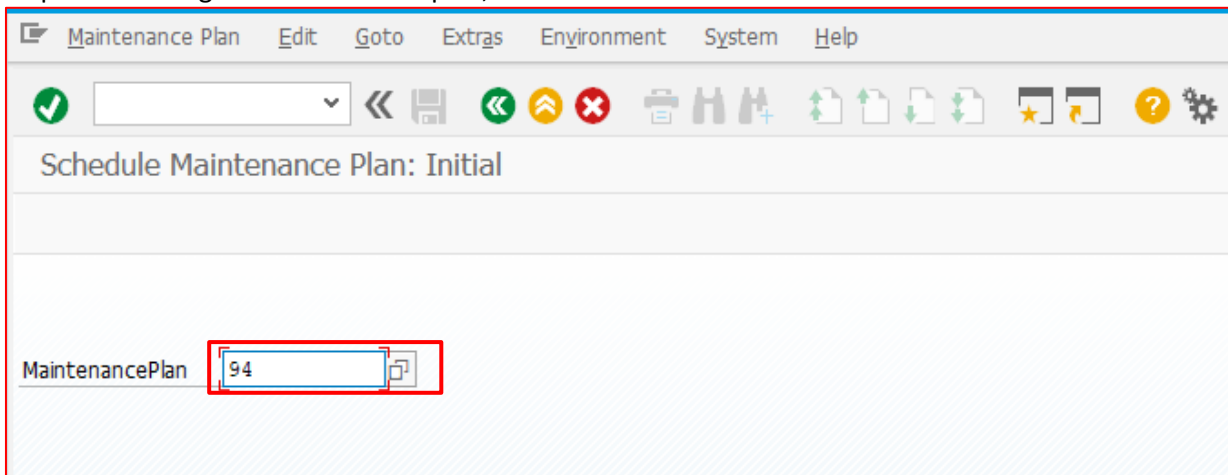
Maintenance plan cycle Maintenance plan scheduling parameters Maintenance plan additional data

Date determination	Call control parameter	Scheduling indicator
Shift Factor Late Compl.	Call horizon 90 %	<input checked="" type="radio"/> Time
Tolerance (+)	Scheduling period 5 YR	<input type="radio"/> Time - key date
Shift Factor Early Compl.	<input type="checkbox"/> Completion Requirmnt	<input type="radio"/> Time - factory caldr
Tolerance (-)		
Cycle modification factor 1,00	Start scheduling	
Factory calendar	Start of cycle 25.05.2019	

✓ Maintenance plan 94 created

- Enter the call horizon and scheduling period. The Call horizon determines the when a maintenance call object generates and scheduling period You can use the scheduling period to determine the length of time for which the system creates Maintenance calls
- Select scheduling indicator as Time. Here we are considering Time
- Enter the start of cycle and click on the save. When Maintenance plan is going to start
- Click on save icon  to save the Maintenance plan
- Maintenance plan number will be created

### Step4: Scheduling the Maintenance plan, T code – IP10



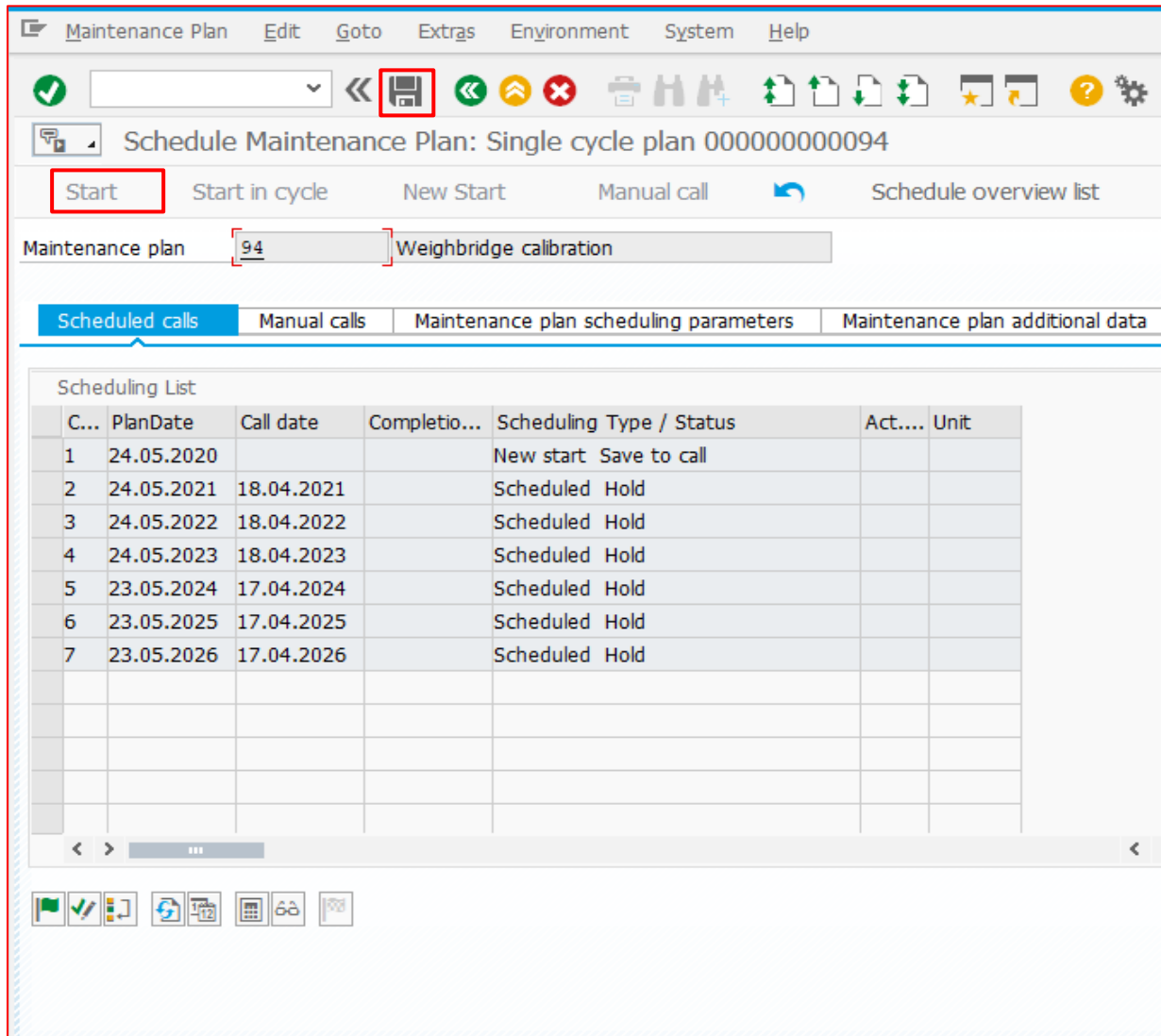
Maintenance Plan Edit Goto Extras Environment System Help

Schedule Maintenance Plan: Initial

MaintenancePlan 94


- In step 03 we have created Maintenance plan and same plan requires scheduling
- Enter the Maintenance plan number and click on Enter

Step5: Scheduling the Maintenance plan

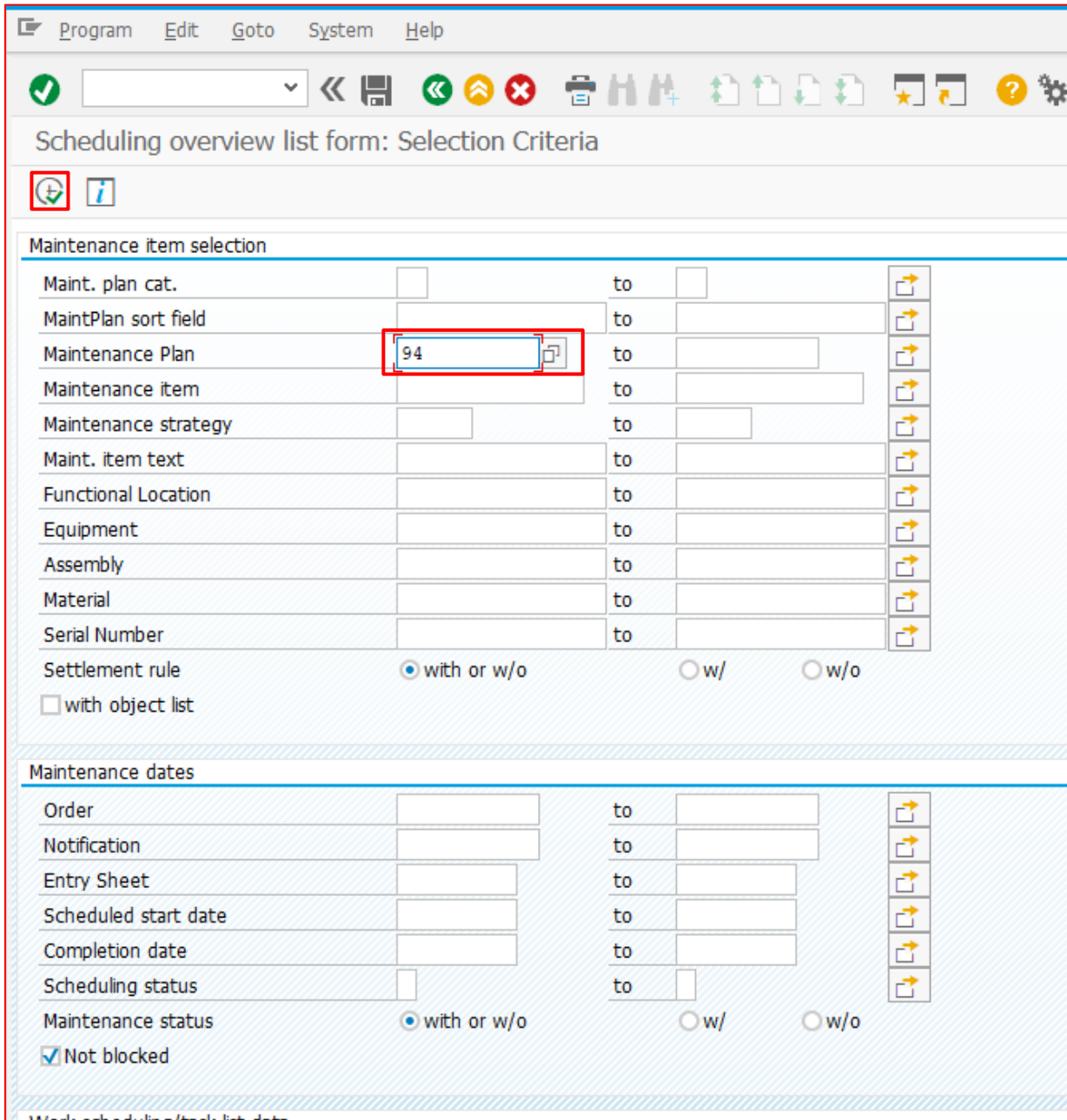


C...	PlanDate	Call date	Completio...	Scheduling Type / Status	Act...	Unit
1	24.05.2020			New start Save to call		
2	24.05.2021	18.04.2021		Scheduled Hold		
3	24.05.2022	18.04.2022		Scheduled Hold		
4	24.05.2023	18.04.2023		Scheduled Hold		
5	23.05.2024	17.04.2024		Scheduled Hold		
6	23.05.2025	17.04.2025		Scheduled Hold		
7	23.05.2026	17.04.2026		Scheduled Hold		

✓ Maintenance plan 94 scheduled

- First click on start on top of the screen to schedule the Maintenance plan
- System will ask you start date and enter the start date of scheduling
- All the scheduling planned dates will be displayed as per period mentioned in scheduling period i.e in step 03 we have 05 years
- Click on save Icon 
- Maintenance plan will be scheduled

Step6: Scheduling overview of Maintenance plan, T code – IP24



Program Edit Goto System Help

Scheduling overview list form: Selection Criteria

Maintenance item selection

Maint. plan cat.		to		
MaintPlan sort field		to		
Maintenance Plan	94	to		
Maintenance item		to		
Maintenance strategy		to		
Maint. item text		to		
Functional Location		to		
Equipment		to		
Assembly		to		
Material		to		
Serial Number		to		

Settlement rule ☒ with or w/o ☐ w/ ☐ w/o

☐ with object list

Maintenance dates

Order		to		
Notification		to		
Entry Sheet		to		
Scheduled start date		to		
Completion date		to		
Scheduling status		to		

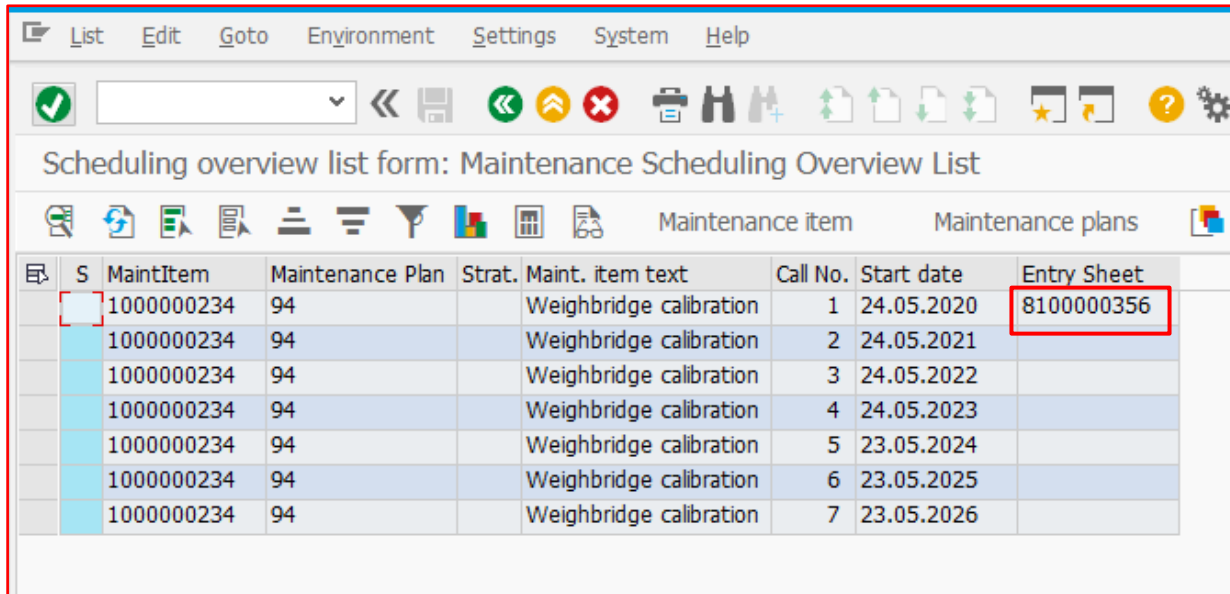
Maintenance status ☒ with or w/o ☐ w/ ☐ w/o

☒ Not blocked

- Enter the Maintenance plan number which is already created and click on execute



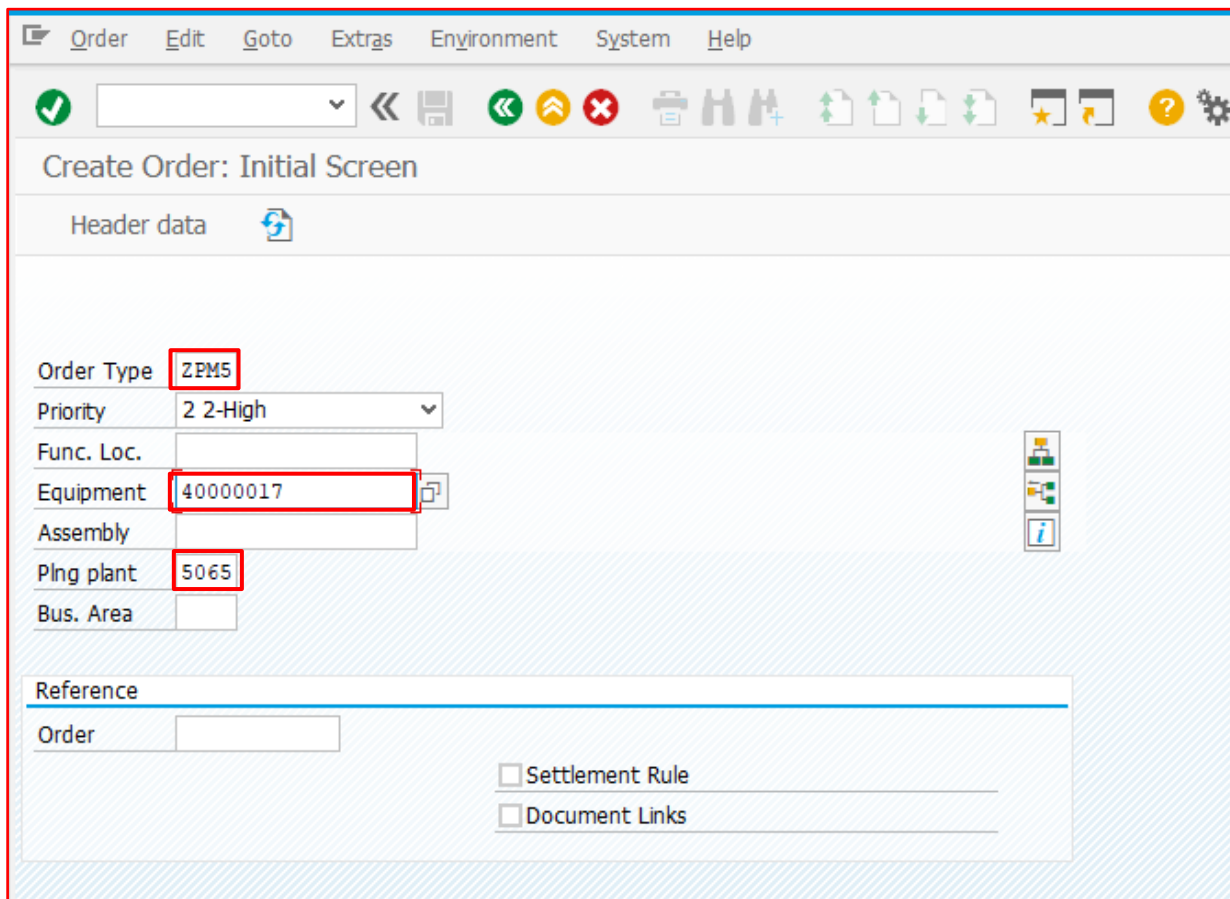
Step7: Scheduling overview List



S	MaintItem	Maintenance Plan	Strat.	Maint. item text	Call No.	Start date	Entry Sheet
	1000000234	94		Weighbridge calibration	1	24.05.2020	8100000356
	1000000234	94		Weighbridge calibration	2	24.05.2021	
	1000000234	94		Weighbridge calibration	3	24.05.2022	
	1000000234	94		Weighbridge calibration	4	24.05.2023	
	1000000234	94		Weighbridge calibration	5	23.05.2024	
	1000000234	94		Weighbridge calibration	6	23.05.2025	
	1000000234	94		Weighbridge calibration	7	23.05.2026	

- Entry sheet Number 8100000356 Generated through Maintenance plan
- Note the Entry sheet (CS calibration service sheet) Number

Step8: Create Maintenance order T code-IW31



Order Type: **ZPM5**

Priority: 2 2-High

Func. Loc.:

Equipment: **40000017**

Assembly:

Png plant: **5065**

Bus. Area:

Reference

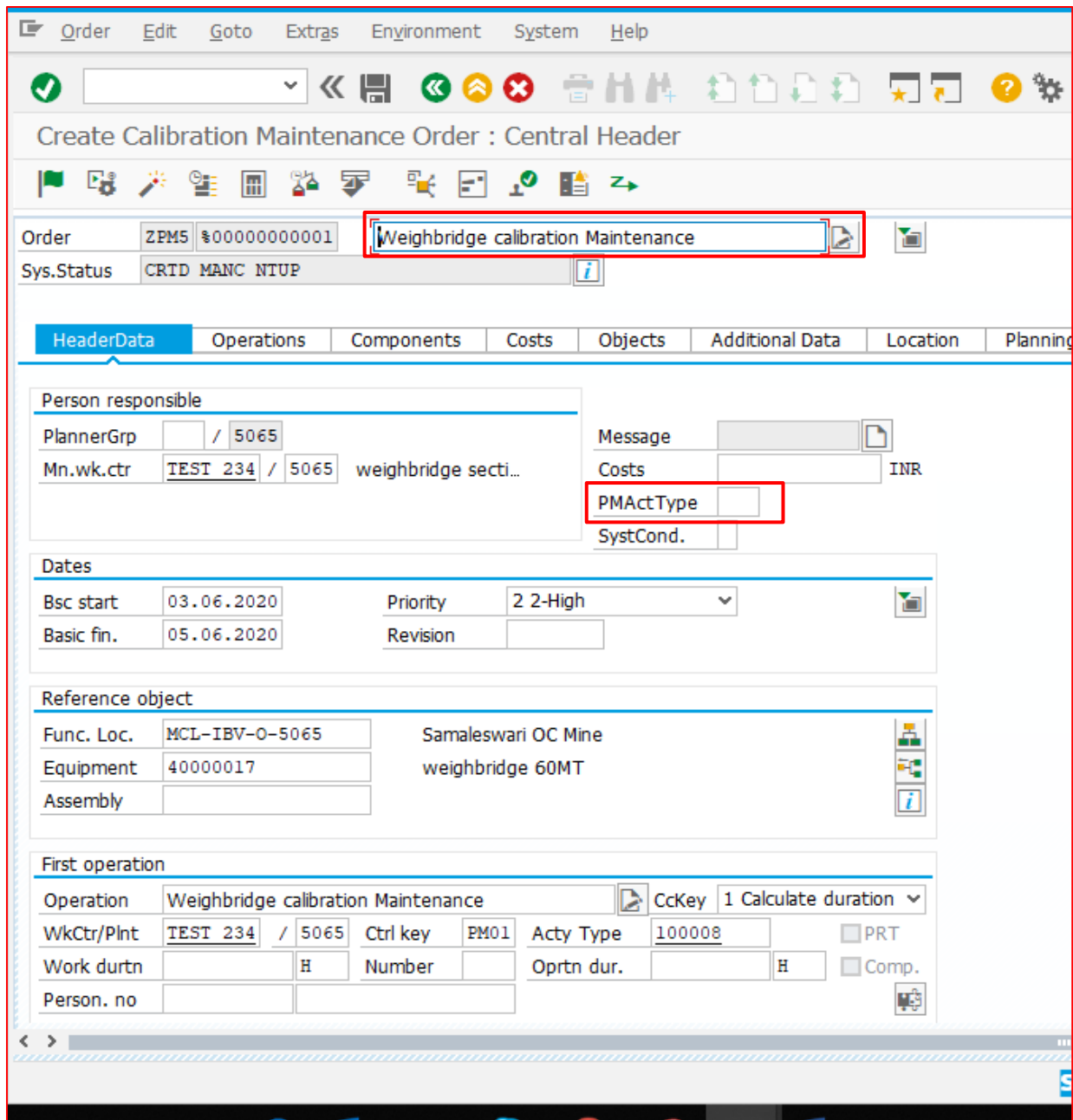
Order:

☐ Settlement Rule

☐ Document Links

- Select the the Maintenance order type from dropdown list as ZPM5 for calibration Maintenance order
- Enter the Equipment Number and Priority
- Enter the Maintenance plant and click on Enter

**Step9: Maintenance order Details**



Order: ZPM5 5000000000001 Weighbridge calibration Maintenance

Sys.Status: CRTD MANC NTUP

HeaderData Operations Components Costs Objects Additional Data Location Planning

Person responsible

PlannerGrp: / 5065

Mn.wk.ctr: TEST 234 / 5065 weighbridge secti...

Message:

Costs: INR

PMActType:

SystCond:

Dates

Bsc start: 03.06.2020

Basic fin.: 05.06.2020

Priority: 2 2-High

Revision:

Reference object

Func. Loc.: MCL-IBV-O-5065 Samaleswari OC Mine

Equipment: 40000017 weighbridge 60MT

Assembly:

First operation

Operation: Weighbridge calibration Maintenance CcKey: 1 Calculate duration

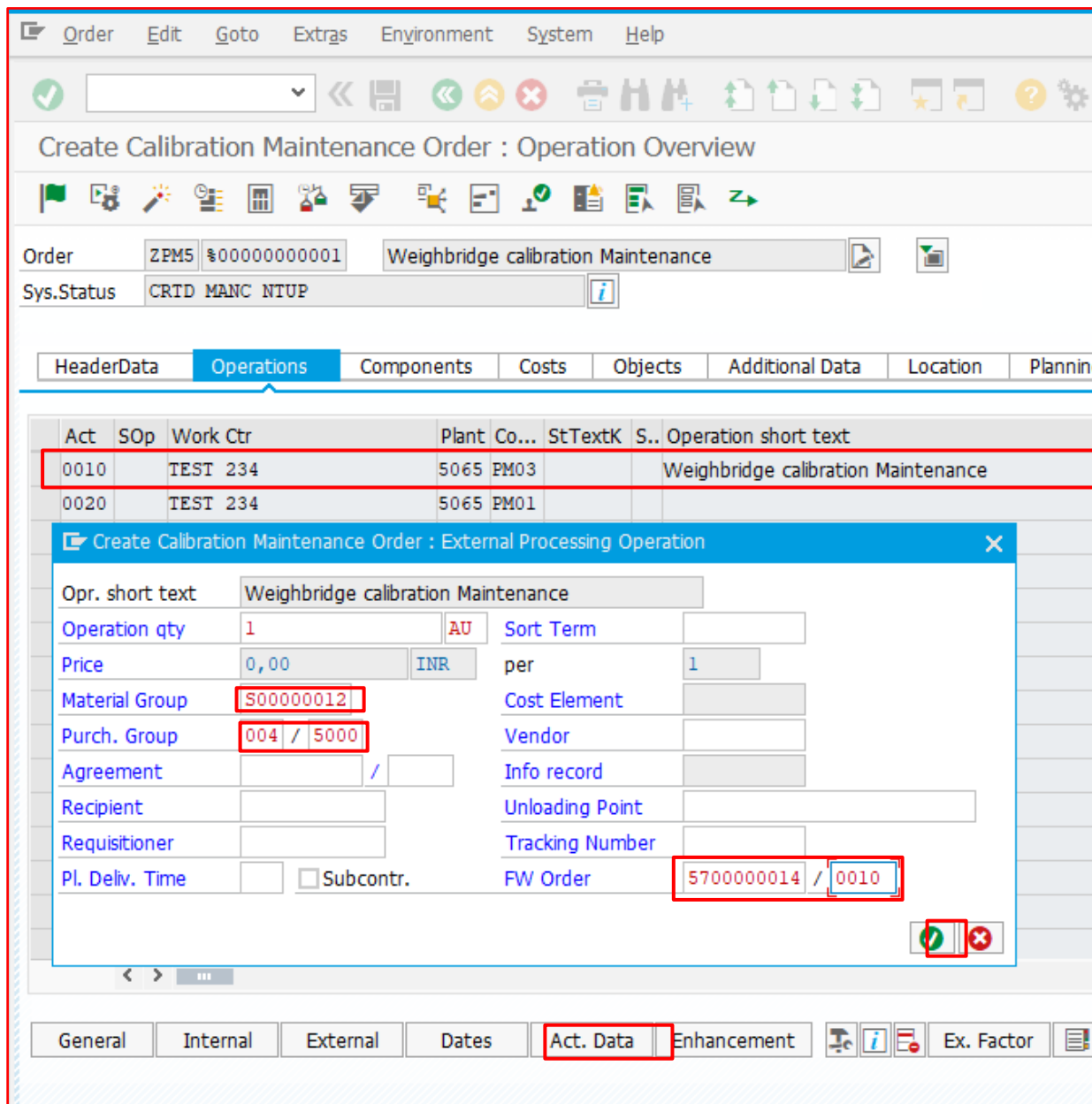
WkCtr/Plnt: TEST 234 / 5065 Ctrl key: PM01 Acty Type: 100008

Work durtn: H Number: Optrn dur.: H

Person. no:

- Enter the Maintenance order short text
- Select the PM Activity type as External Activity
- Equipment data will be fetched from Equipment Master
- Click on next tab i.e Operations tab

**Step10: Maintenance order Operations Tab**



The screenshot shows the SAP PM Maintenance Order Operations Tab. The main window is titled "Create Calibration Maintenance Order : Operation Overview". The Order number is ZPM5 000000000001, and the short text is "Weighbridge calibration Maintenance". The System Status is CRID MANC NTUP.


The Operations tab is selected, showing a table with the following data:

Act	SOp	Work Ctr	Plant	Co...	StTextK	S..	Operation short text
0010		TEST 234	5065	PM03			Weighbridge calibration Maintenance
0020		TEST 234	5065	PM01			

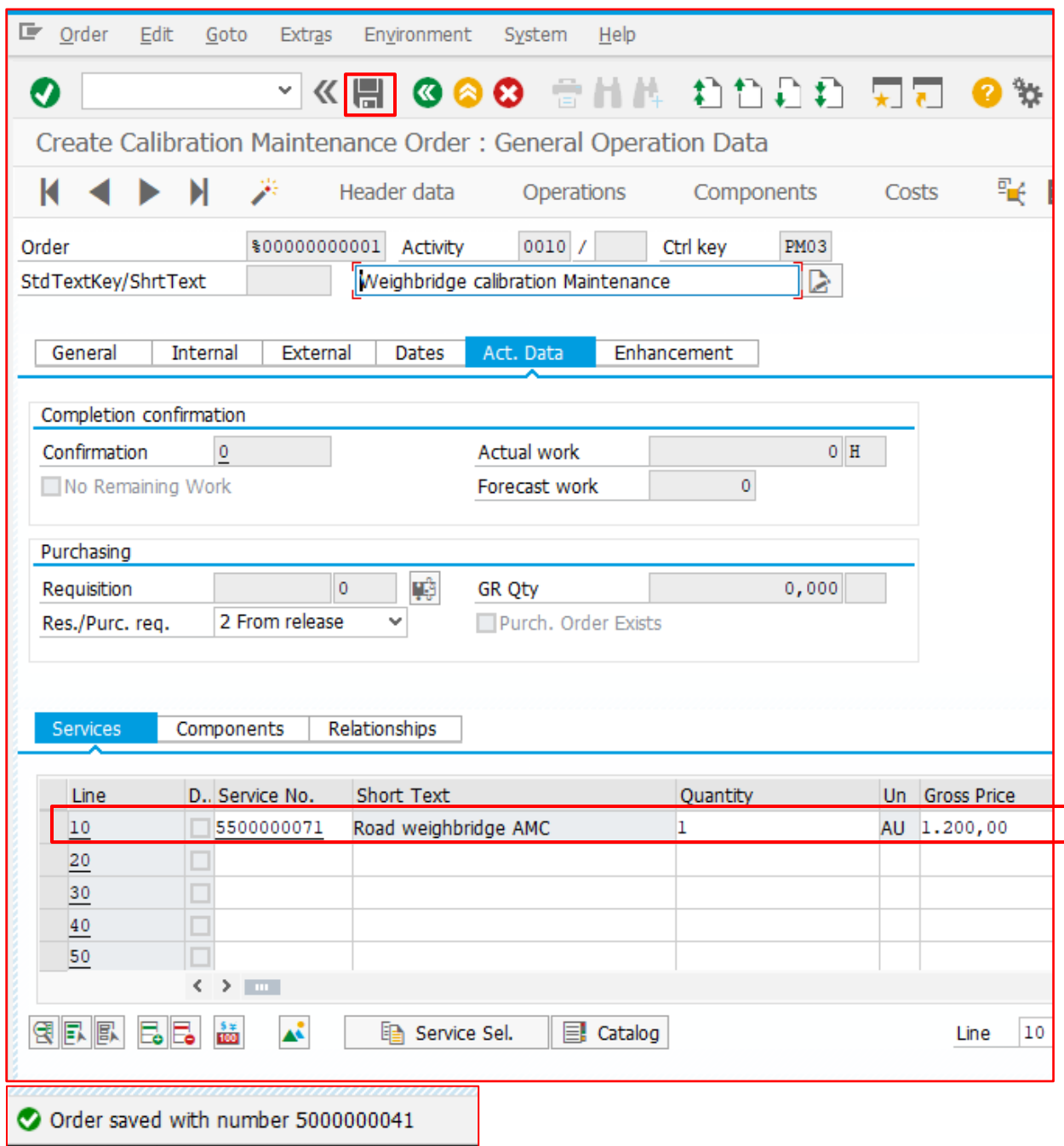
An "External Processing Operation" dialog box is open, showing the following details:

- Opr. short text: Weighbridge calibration Maintenance
- Operation qty: 1
- Price: 0,00
- Material Group: S00000012
- Purch. Group: 004 / 5000
- Agreement: /
- Recipient: /
- Requisitioner: /
- Pl. Deliv. Time: /
- Sort Term: /
- per: 1
- Cost Element: /
- Vendor: /
- Info record: /
- Unloading Point: /
- Tracking Number: /
- FW Order: 5700000014 / 0010

The "Act. Data" tab is selected at the bottom of the dialog box.


- Enter the operation short text and select control key as PM03 for External services and click on enter
- After click on enter tab will be populated for external operation processing and Select purchasing data i.e. Material group, Purchase group and organization
- Enter the Frame Work(FW) order number which mentioned Maintenance plan i.e. Step 02 and operation number
- Click on continue 

**Step11: Service selection**

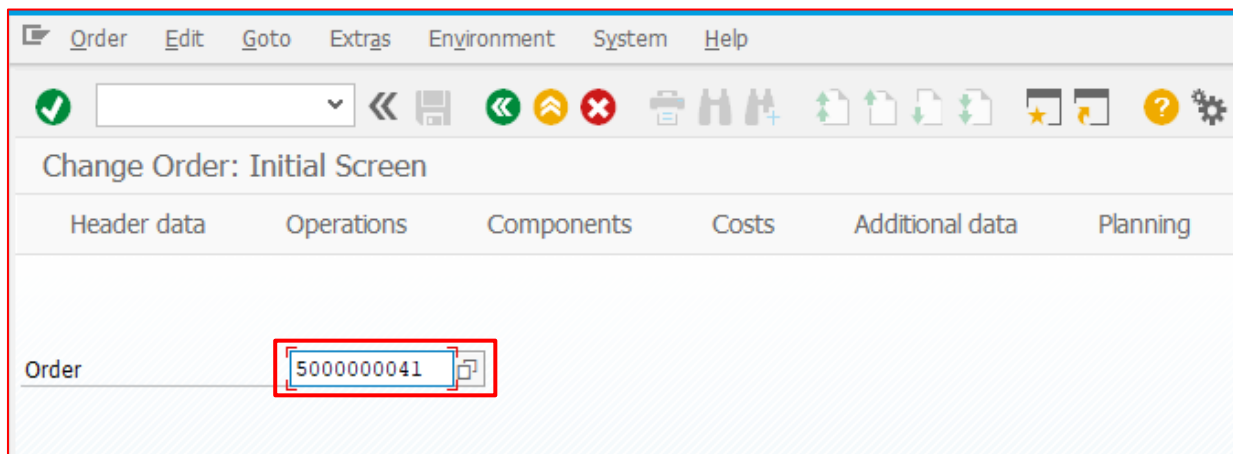


The screenshot shows the SAP PM03 transaction for creating a calibration maintenance order. The 'General' tab is active, and the 'Act. Data' sub-tab is selected. The 'Order' field contains '500000000001', 'Activity' is '0010', and 'Ctrl key' is 'PM03'. The 'StdTextKey/ShrtText' field is 'Weighbridge calibration Maintenance'. The 'Completion confirmation' section shows 'Confirmation' as '0' and 'Actual work' as '0'. The 'Purchasing' section shows 'Requisition' as '0' and 'GR Qty' as '0,000'. The 'Services' tab is active, showing a table with one line item: 'Road weighbridge AMC' with quantity '1' and gross price '1.200,00'. A message bar at the bottom states 'Order saved with number 5000000041'.

Line	D..	Service No.	Short Text	Quantity	Un	Gross Price
10		5500000071	Road weighbridge AMC	1	AU	1.200,00
20						
30						
40						
50						

- After entering the purchasing data in external operation processing tab click on enter and select the operation 0010 Line item and click on the Actual data which is below screen in previous step
- Service tab will be populated
- Enter the service Number, Required Quantity of services and Gross Price. Click on save 

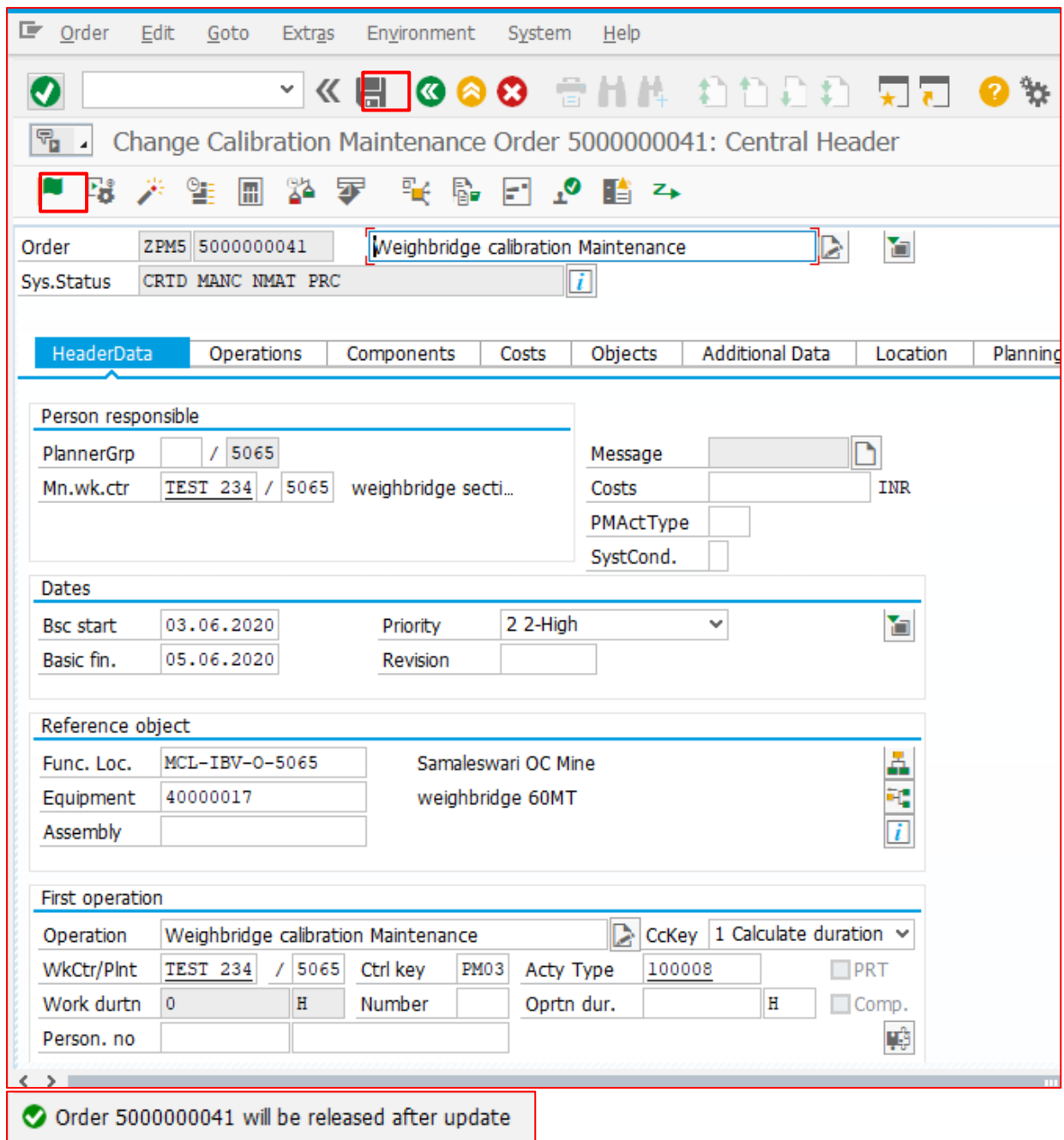
Step12: Release the Maintenance order T code – IW32



The screenshot shows the SAP 'Change Order: Initial Screen' interface. The 'Order' field is highlighted with a red box and contains the value '5000000041'. The interface includes a menu bar (Order, Edit, Goto, Extras, Environment, System, Help) and a toolbar with various icons. Below the menu bar, there are tabs for 'Header data', 'Operations', 'Components', 'Costs', 'Additional data', and 'Planning'. The 'Order' field is located under the 'Header data' tab.

- Enter Maintenance order Number which is created in previous step
- Click on enter to proceed

Step13: Release the Maintenance order



Order: ZPM5 5000000041 Weighbridge calibration Maintenance

Sys.Status: CRTD MANC NMAT PRC

HeaderData | Operations | Components | Costs | Objects | Additional Data | Location | Planning

Person responsible

PlannerGrp: / 5065

Mn.wk.ctr: TEST 234 / 5065 weighbridge secti...

Message: [ ]

Costs: [ ] INR

PMActType: [ ]

SystCond.: [ ]

Dates

Bsc start: 03.06.2020 Priority: 2 2-High

Basic fin.: 05.06.2020 Revision: [ ]

Reference object

Func. Loc.: MCL-IBV-O-5065 Samaleswari OC Mine

Equipment: 40000017 weighbridge 60MT

Assembly: [ ]

First operation

Operation: Weighbridge calibration Maintenance CcKey: 1 Calculate duration

WkCtr/Plnt: TEST 234 / 5065 Ctrl key: PM03 Acty Type: 100008 [ ] PRT

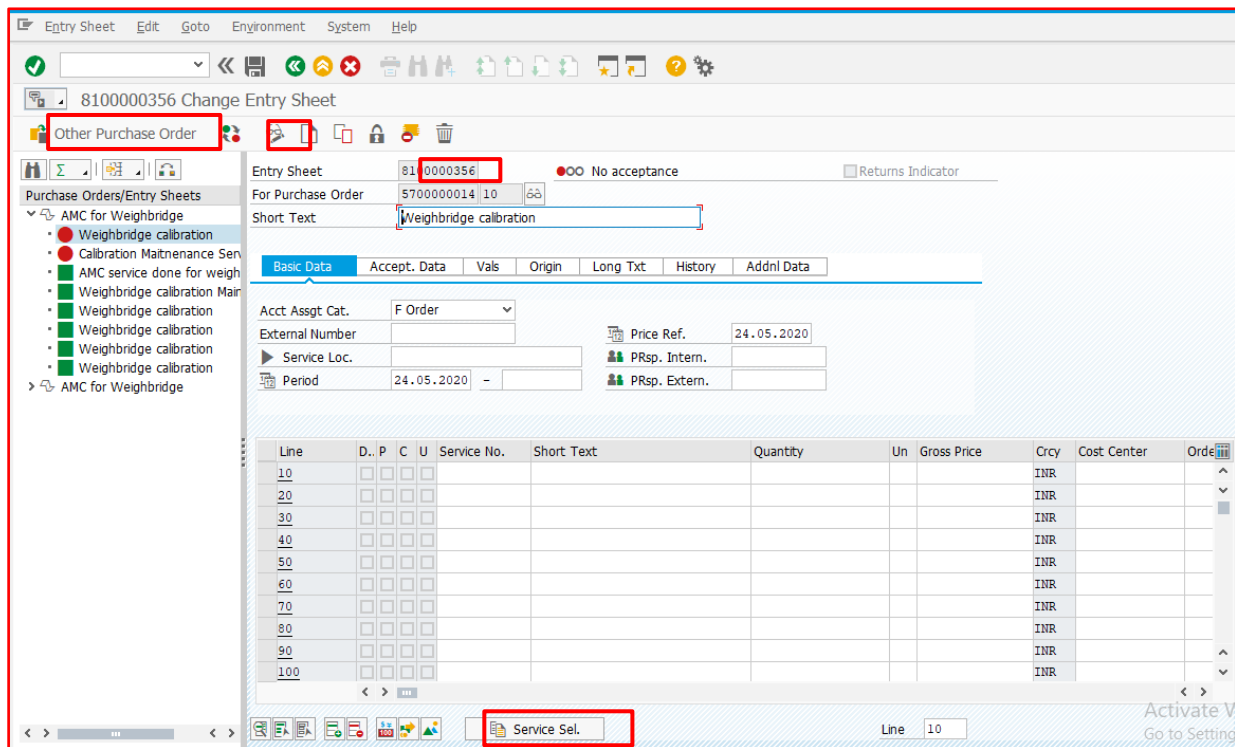
Work durtn: 0 H Number: [ ] Oprtn dur.: [ ] H [ ] Comp.


Person. no: [ ]

Order 5000000041 will be released after update

- Click on release flag  to release the order and Execute the work
- Save the Maintenance order 

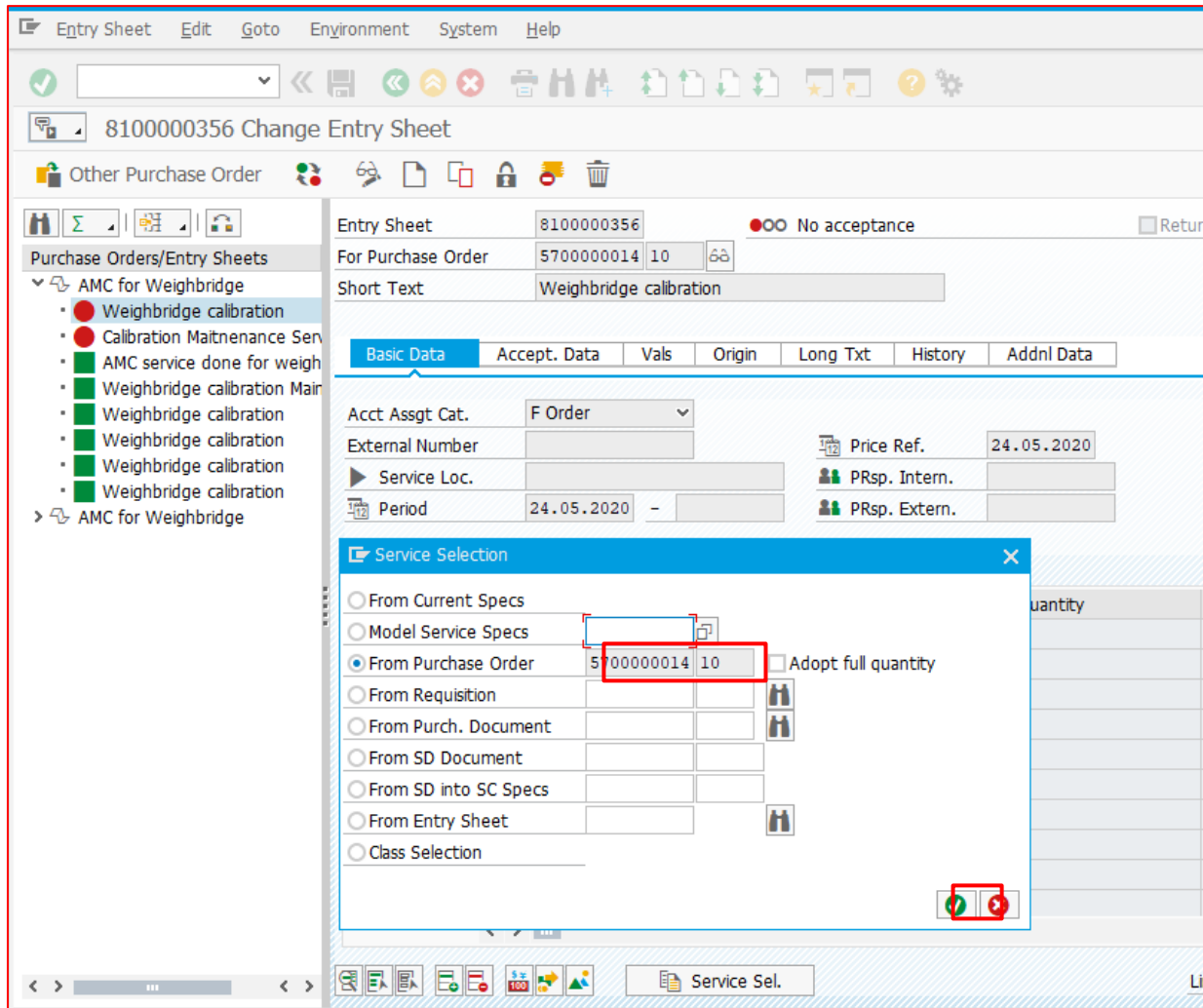
**Step14: Create service Entry Sheet T code – ML81N**




- Select the other purchase order from above and enter the Entry sheet number which is generated through Maintenance plan in step 07
- Click on  this symbol to edit the service entry sheet
- After that select the service selection from below screen, Another services screen will be populated



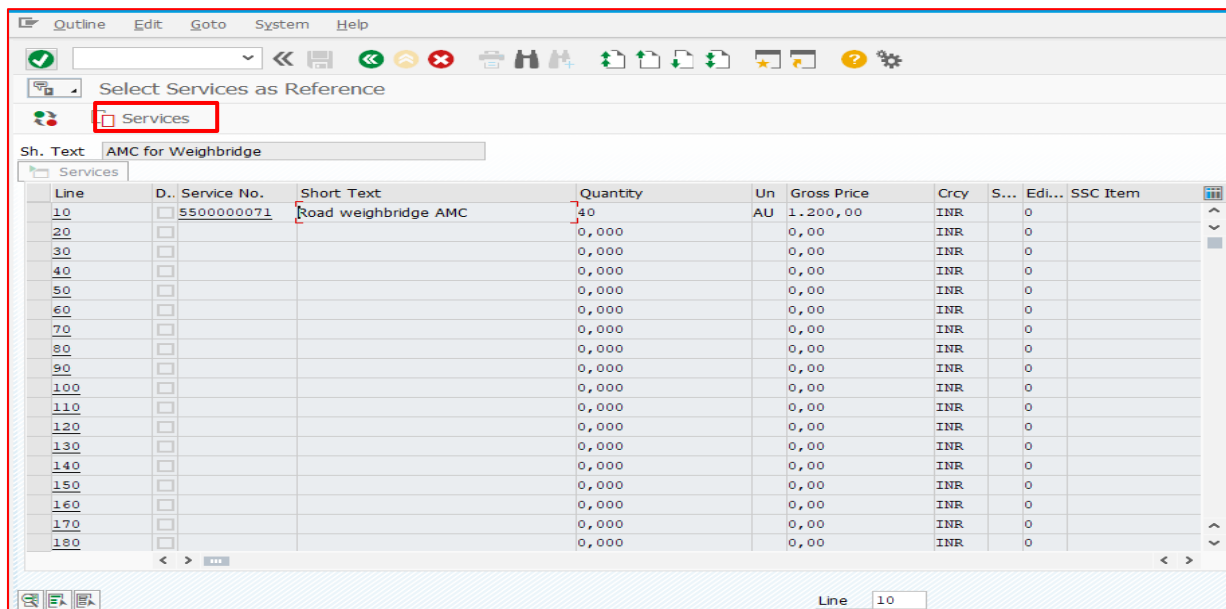
Step15: Selection of service entry sheet



The screenshot shows the 'Entry Sheet' application window. The 'Service Selection' dialog box is open, displaying various options for selecting a service. The 'From Purchase Order' option is selected, and the 'Adopt full quantity' checkbox is checked. The 'Service Loc.' field is set to 'F Order'. The 'Period' field is set to '24.05.2020'. The 'Price Ref.' field is set to '24.05.2020'. The 'PRsp. Intern.' and 'PRsp. Extern.' fields are empty. The 'Service Sel.' button is highlighted at the bottom right of the dialog box.

- After selecting the service selection, Above service selection screen will be populated.  
Click on  to continue
- Services selection will be displayed

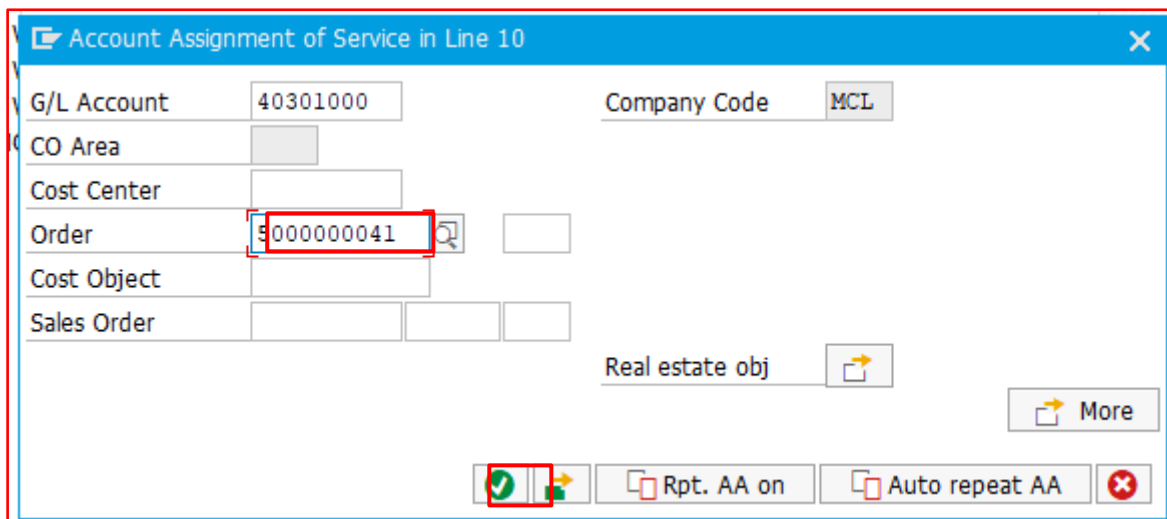
Step16: Services selection



Line	D..	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	S...	Edi...	SSC Item
10		5500000071	Road weighbridge AMC	40	AU	1.200,00	INR	0		
20				0,000		0,00	INR	0		
30				0,000		0,00	INR	0		
40				0,000		0,00	INR	0		
50				0,000		0,00	INR	0		
60				0,000		0,00	INR	0		
70				0,000		0,00	INR	0		
80				0,000		0,00	INR	0		
90				0,000		0,00	INR	0		
100				0,000		0,00	INR	0		
110				0,000		0,00	INR	0		
120				0,000		0,00	INR	0		
130				0,000		0,00	INR	0		
140				0,000		0,00	INR	0		
150				0,000		0,00	INR	0		
160				0,000		0,00	INR	0		
170				0,000		0,00	INR	0		
180				0,000		0,00	INR	0		

- Quantity of services will be displayed as per purchase order
- Click on Adopt services
- Click on enter

Step17: Account Assignment of service




Account Assignment of Service in Line 10

G/L Account: 40301000      Company Code: MCL

CO Area:      Cost Center:      Order: 5000000041


Cost Object:      Sales Order:      Real estate obj:      More

Buttons: [Green Checkmark] [Yellow Arrow] [Rpt. AA on] [Auto repeat AA] [Red X]

- Enter the Calibration Maintenance order number which is created in step11
- Click on  to continue

### Step18: Confirm the quantity of services

Line	D..	P	C	U	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Cost Center	S...
10					5500000071	Road weighbridge AMC	1	AU	1.200,00	INR		
20										INR		
30										INR		
40										INR		
50										INR		
60										INR		
70										INR		
80										INR		
90										INR		
100										INR		

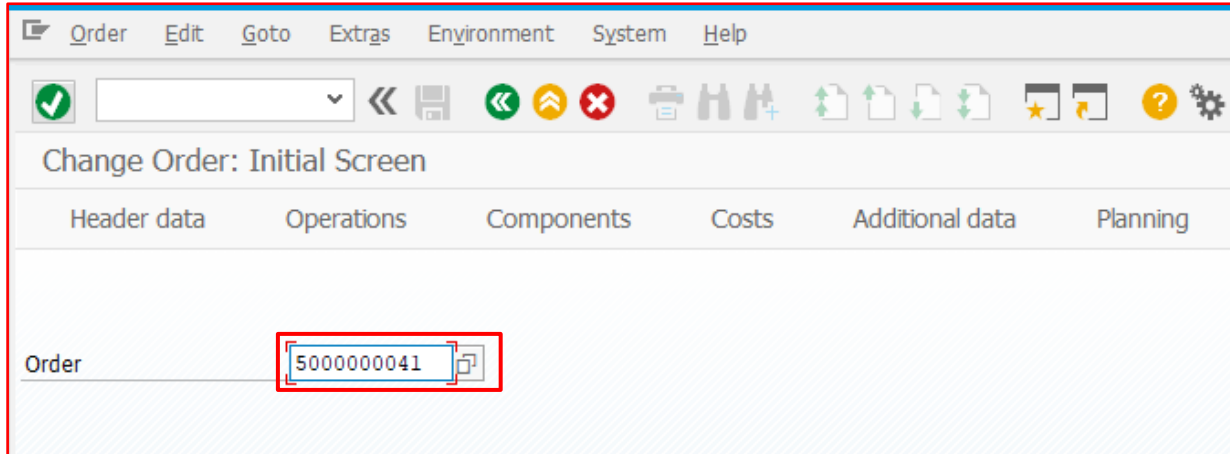
- Enter the Quantity of services required to confirm
- Click on save icon 
- Further Entry sheet will be Approved

### Step19: Service Entry sheet Confirmed

Line	D..	P	C	U	Service No.	Short Text	Quantity	Un	Gross Price	Crcy	Cost Center	Orde
10					5500000071	Road weighbridge AMC	1	AU	1.200,00	INR		5000
20							0,000		0,00	INR		
30							0,000		0,00	INR		
40							0,000		0,00	INR		
50							0,000		0,00	INR		
60							0,000		0,00	INR		
70							0,000		0,00	INR		
80							0,000		0,00	INR		
90							0,000		0,00	INR		
100							0,000		0,00	INR		

Service entry sheet Approved and confirmed.

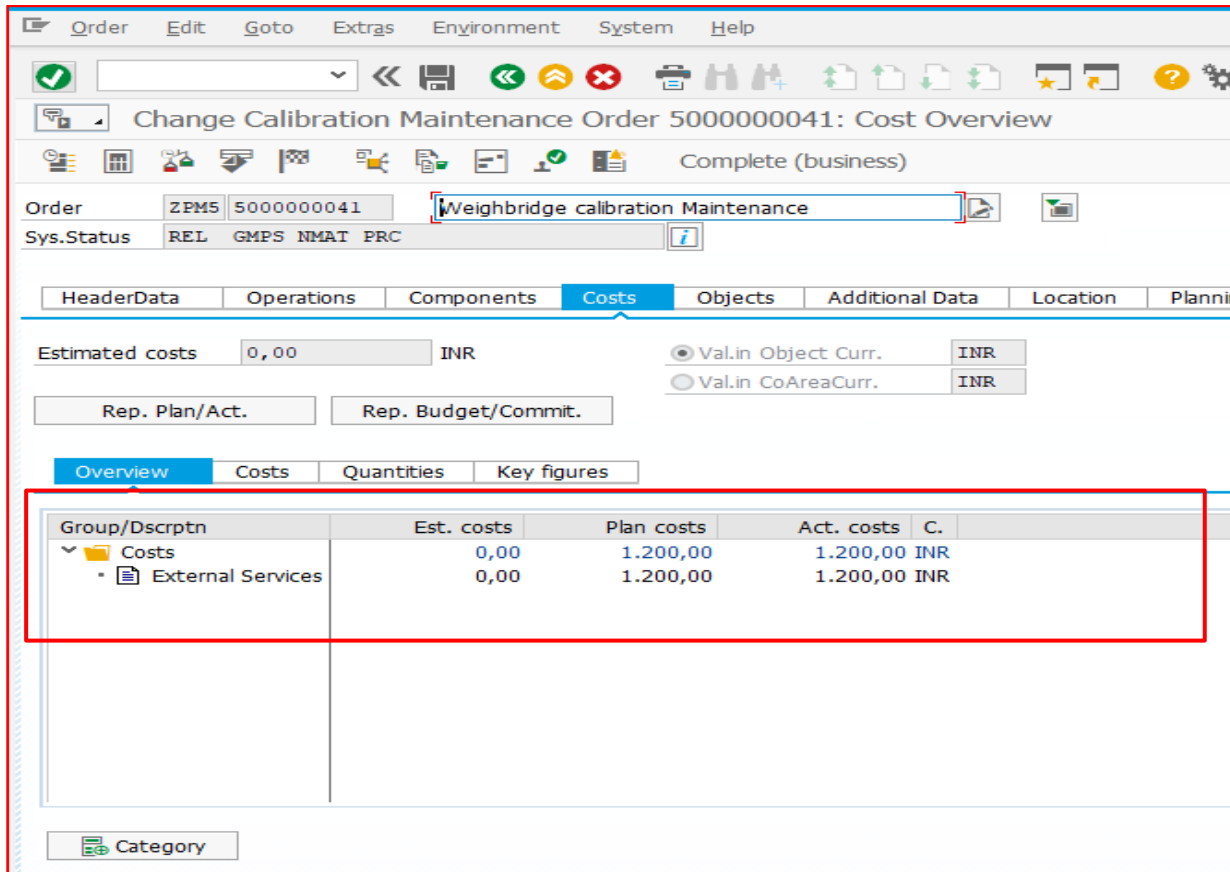
Step20: Change order T code - IW32



The screenshot shows the 'Change Order: Initial Screen' in SAP. The 'Order' field is highlighted with a red box and contains the value '5000000041'.

- Enter the Calibration Maintenance order Number
- Click on Enter

Step21: Planned and Actual cost

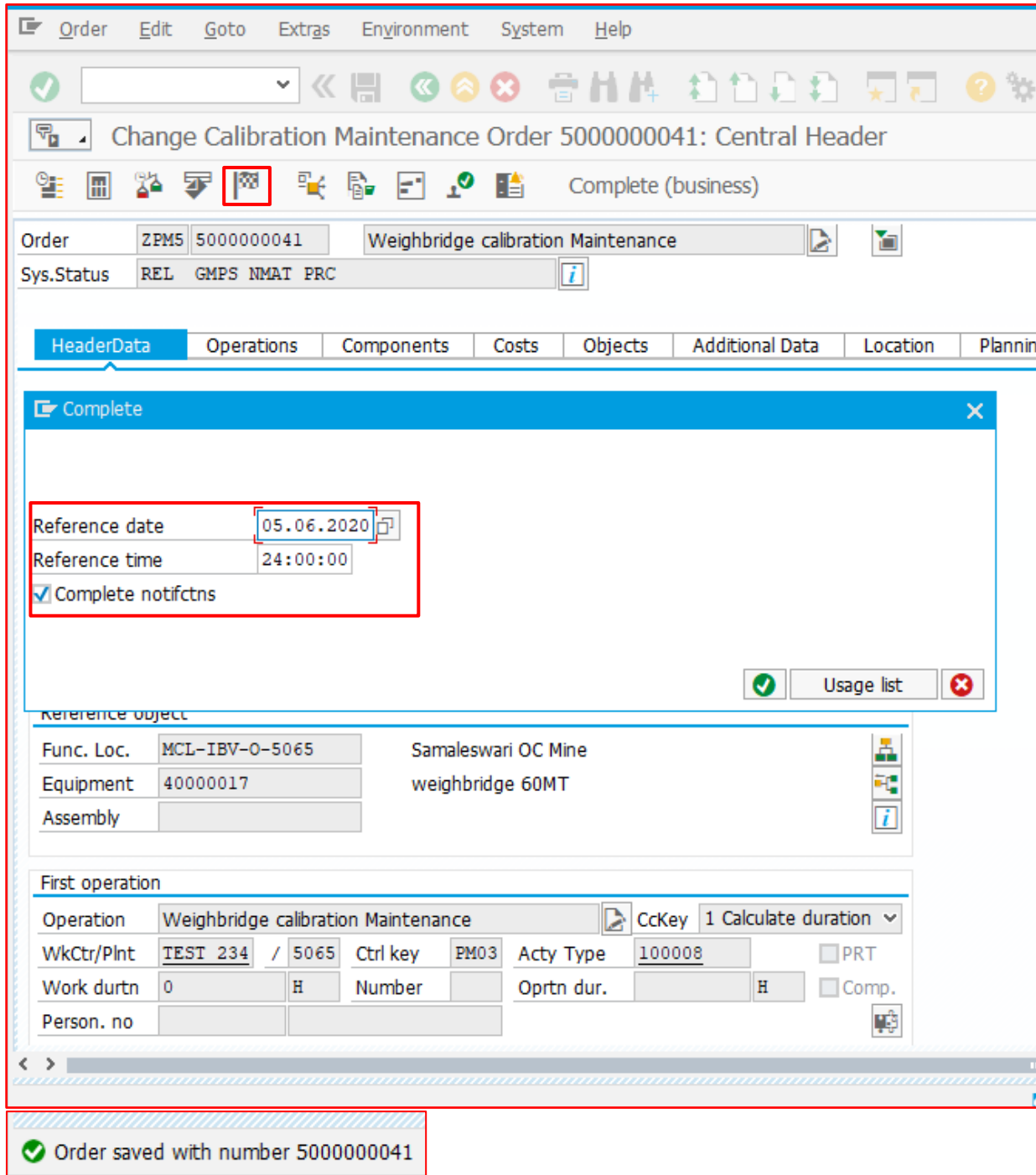


The screenshot shows the 'Change Calibration Maintenance Order 5000000041: Cost Overview' in SAP. The 'Costs' tab is selected, and the 'Overview' sub-tab is active. A red box highlights the table showing estimated, planned, and actual costs.

Group/Dscrptn	Est. costs	Plan costs	Act. costs	C.
Costs	0,00	1.200,00	1.200,00	INR
External Services	0,00	1.200,00	1.200,00	INR

- Planned cost and Actual costs are captured after confirming the services in Service Entry sheet

Step22: Complete the calibration Maintenance order



Order: ZPM5 5000000041 Weighbridge calibration Maintenance

Sys.Status: REL GMPS NMAT PRC

Complete (business)

HeaderData Operations Components Costs Objects Additional Data Location Plannin

Complete

Reference date: 05.06.2020

Reference time: 24:00:00

☒ Complete notifictns

Usage list

Reference object

Func. Loc.: MCL-IBV-0-5065 Samaleswari OC Mine

Equipment: 40000017 weighbridge 60MT

Assembly:

First operation


Operation: Weighbridge calibration Maintenance CcKey: 1 Calculate duration

WkCtr/Plnt: TEST 234 / 5065 Ctrl key: PM03 Acty Type: 100008

Work durtn: 0 H Number: Optn dur.: H

Person. no:

Order saved with number 5000000041

- Click on chequered flag  to complete the order
- Enter reference date and time
- Order Technically completed(TECO)

## Power Consumption

### Power Consumption Process

Procrss devided into three parts.

- Meter master upload
- Monthly Power consumed details upload.
- Report

#### **1. Meter master upload- (Tcode- ZPM METER MASTER)**

This Activity is one time activity. It will be carried out from head quarter level. By this transaction- Meter master will get created.

Able to create Meter master- Main consumer number, Source of supplu, Unit of measure, Type of connection, Subsiedery, Area, Plant, Feeding plant 1, Feeding plant, Feeding plant 3 and other details can be provide.

If Sub meter will be present, Submter details can also be able to provide in Item details table. There also will be able to provide Type of connection, Location, Feeding plant 1, Feeding plant 2, Feeding plant 3 and other details.

Able to change, delete and display the master data from same Transaction.

Consumer Meter Details					
Consumer Number	1000001118	Connected Load	CONNEVTION LOAD		
Source Of Supply	Madhyapradesh El...	Contract Demand	CONTRACT DEMAND		
Unit of Measurement	KWH	Vendor Code	VENDOR CODE		
Type Of Connection	D...	Subsidiary	CIL		
Meter Model Number	METER MODEL NUMBER	Area	COAL INDIA LIMITED		
Sanction Load	SANCTION LOAD	Plant	COAL INDIA LIMITED		
Feeder Voltage (kV)	FEEDER VOLTAGE	Address	ADDRESS		
Express Feeder	YES	Date of Connection	01.02.2022		
Feeding Plant 1	IICM	Feeding Plant 2	MARGARITHA AREA		
Feeding Plant 3	TIPONG UG PLANT	Remarks	REMARK		

Item Details					
Sub Meter No. Against ...	Sub Meter Serial No.	Sub Meter Model No.	Sub Meter...	Sub Meter Location (Ar...	Sub...
1000001118-1	18-1	18-11	Industr...	COAL INDIA LIMITED	COA
1000001118-2	18-2	18-12	Industr...	COAL INDIA LIMITED	COA
1000001118-3	18-3	18-13	Domestic	COAL INDIA LIMITED	COA


Master will get saved against the consumer number.

## 2. Monthly Consumed details (T code- ZPM\_MON\_POWER)

This Transaction is used to provide the monthly power consumed details. This transaction will be used monthly to provide all the details against the consumer number or Submeter.

Below screen will be open on Executing this transaction where Consumer number, Source of supply, Month and Year should be provide. (Month & Year - For which month and year, user need to provide the bill details)

**Monthly Consumer Details**



**Selection Option**

☒ Change  
☐ Display

**Enter Details**

Consumer Number: 1000001118  
Source of Supply: MPCB  
Month: 02  
Year: 2022

After executing the above details- Below main screen will get open to fill the data. In this screen, Energy consumed in KWH/ KVAH can be provide of Main consumer number as well as Sub meter.

Also, Running Maximum demand, Power factor, Incentive due to P.F., Penalty due to Excess demand, Billed Amount Rs. Early payment amount, Delayed Payment amount, Tarrif and Bill no can be provide.

**Consumer Meter Details**

Consumer Number: 1000001118  
Source Of Supply: Madhyapradesh El...  
Month / Year: 2 / 2022  
Unit of Measurement: KWH  
Type Of Connection: D...  
Meter Model Number: METER MODEL NUMBER  
Sanction Load: SANCTION LOAD  
Feeder Voltage (kV): FEEDER VOLTAGE  
Express Feeder: YES  
Feeding Plant 1: IICM  
Feeding Plant 3: TIPONG UG PLANT

Connected Load: CONNEVTION LOAD  
Contract Demand: CONTRACT DEMAND  
Vendor Code: VENDOR CODE  
Subsidiary: CIL  
Area: COAL INDIA LIMITED  
Plant: COAL INDIA LIMITED  
Address: ADDRESS  
Date of Connection: 01.02.2022  
Feeding Plant 2: MARGARITHA AREA  
Remarks: REMARK

**Item Details**

Consumer Number	Energy Consumed (KWH)	Energy Consumed (KVAH)	Running Maximu...	Power Factor	Incentive Due to...	P...
1000001118	0.00	0.00				

Sub Meter No. Against ...	Energy Consumed (KWH)	Energy Consumed (KVAH)	Sub Meter Serial No.	Sub Meter Model No.	Sub Met...
1000001118-1		0.00	18-1	18-11	Industri
1000001118-2		0.00	18-2	18-12	Industri
1000001118-3		0.00	18-3	18-13	Domesti



## Power Consumption Report

### 3. Report (T Code- ZPM\_PCREPORT)

This transaction can be use by all users. This transaction is there to check the Report against consumer number, Sub Meter, Subsiedery, Area, Plant, Month, Year and other details. Selection criteria and Execution screen shot is given below.

**Consumer Details Report**

Enter Details

Consumer Number	1000001118	to		
Source of Supply	MPCB	to		
PM Type of Connection		to		
Contract Demand		to		
Vendor Code		to		
Subsidiary		to		
Primary Meter Plant		to		
Sub Meter		to		
Sub Meter Type of Connection		to		
Sub Meter Plant		to		
Period		to		

Consumer Details Report

Source Of Consumer N	Month	Con	Year	Type Of Co	Meter Model Number	Sanction Load	Feeder Vol	Express Fe	Connected Load	Contract Demand	Vendor Code	Subsidiary	Area	Plant	Feeding PI	Feeding PI	Feeding PI	Ad
MPCB	1000001118	1	2025	Domestic	METER MODEL NUMBER	SANCTION LOAD	FEEDER VOLTAGE	YES	CONNEVTION LOAD	CONTRACT DEMAND	VENDOR CODE	CIL	1001	1001	1102	1311	1205	AC
MPCB	1000001118	1	2025	Domestic	METER MODEL NUMBER	SANCTION LOAD	FEEDER VOLTAGE	YES	CONNEVTION LOAD	CONTRACT DEMAND	VENDOR CODE	CIL	1001	1001	1102	1311	1205	AC
MPCB	1000001118	1	2025	Domestic	METER MODEL NUMBER	SANCTION LOAD	FEEDER VOLTAGE	YES	CONNEVTION LOAD	CONTRACT DEMAND	VENDOR CODE	CIL	1001	1001	1102	1311	1205	AC

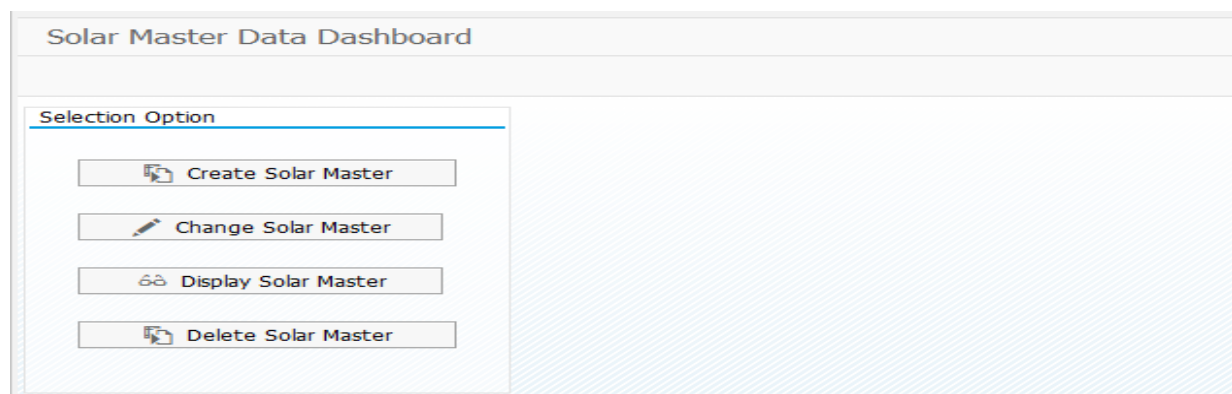
## Solar Power Consumption Process & Report

### Procrss devided into three parts.

- Solar master upload
- Provide Solar consumption readings.
- Report

#### 4. Solar master upload- (Tcode- ZPM SOLAR MASTER)

This Activity is one time activity. It will be carried out from head quarter level. By this transaction- Meter master will get created.

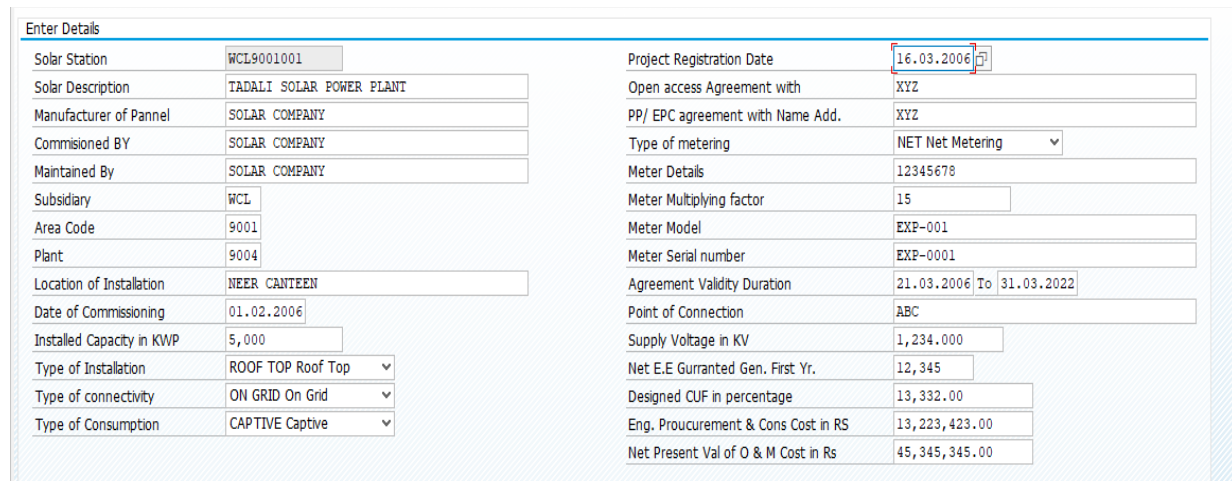


**Solar Master Data Dashboard**

**Selection Option**

- Create Solar Master
- Change Solar Master
- Display Solar Master
- Delete Solar Master

Solar master creation procedure- Solar Station will be nomenclate as Subsidiary, Area and Number of solar stations. (Ex- WCL9004001 i.e.- WCL= Subsidiary, 9004= Plant, 001- First Solar station).



Enter Details	
Solar Station	WCL9001001
Solar Description	TADALI SOLAR POWER PLANT
Manufacturer of Pannel	SOLAR COMPANY
Comissioned BY	SOLAR COMPANY
Maintained By	SOLAR COMPANY
Subsidiary	WCL
Area Code	9001
Plant	9004
Location of Installation	NEER CANTEEN
Date of Commissioning	01.02.2006
Installed Capacity in KWp	5,000
Type of Installation	ROOF TOP Roof Top
Type of connectivity	ON GRID On Grid
Type of Consumption	CAPTIVE Captive
Project Registration Date	16.03.2006
Open access Agreement with	XYZ
PP/ EPC agreement with Name Add.	XYZ
Type of metering	NET Net Metering
Meter Details	12345678
Meter Multiplying factor	15
Meter Model	EXP-001
Meter Serial number	EXP-0001
Agreement Validity Duration	21.03.2006 To 31.03.2022
Point of Connection	ABC
Supply Voltage in KV	1,234.000
Net E.E Gurranted Gen. First Yr.	12,345
Designed CUF in percentage	13,332.00
Eng. Proucurement & Cons Cost in RS	13,223,423.00
Net Present Val of O & M Cost in Rs	45,345,345.00

All below details for Solar station to be fill- Description, Manufacturer of Pannel, Comissioned by, Maintained by, Subsidiary, Area, Plant, Location of Installation, Date of commissioning, Installed Capacity in KWp, Type of Installation, Type of connectivity, Type of Consumption, Project registration date, Open access Agreement with, Power purchase/ EPC agreement with Name address, Type of metering, Meter Details, Meter Multiplying Factor, Meter Model, Meter Serial number, Agreement Validity Duration- From To date, Point of connection, Supply Voltage in KV, Net Electrical energy gurranted generation (NEEGG) for first year, Designed CUF in percentage, Engineering Proucurement & Construction Cost in RS, Net present value of O & M Cost in Rs.

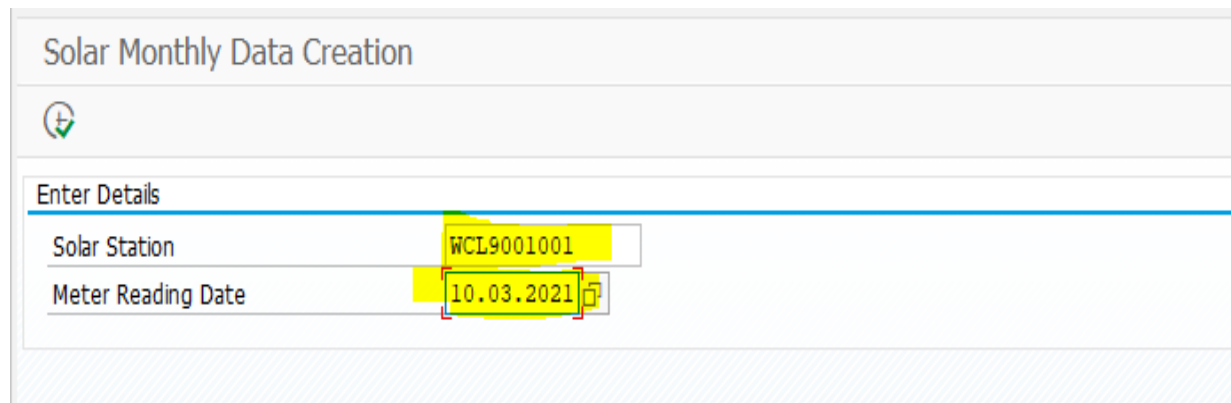
Able to change, delete and display the master data from same Transaction.

Master will get saved against the Solar Station.

## 5. Provide Solar consumption readings. (T code- ZPM\_MON\_SOLAR)

This Transaction is used to provide the solar consumed meter details. This transaction will be used to provide readings. It can be fill Daily/Monthly/ any days of Interval. Month's start date reading and Month's End date reading will be mandatory to fill.

Below screen will be open on Executing this transaction where Solar Station and Date , Source of supply, Month and Year should be provide. (Month & Year - For which month and year, user need to provide the bill details)



Below main screen will get open to provide the Today's date Readings. Earlier three readings will get display by the system for reference only. Below readings to be provide.

Total Generation  
Auxiliary consumption  
Unit Injected in to grid  
Peak generation  
Performance Ratio

**Solar Monthly Data Creation**

Save

**Master Details**

Solar Station	WCL9001001	Solar Description	TADALI SOLAR POWER PLANT
Multiplying Factor	15	Installed Capacity in KWH	5,000
Today's Meter Reading Date	10.03.2021		

**Previous Reading**

Sr No.	Object	Previous Reading - 05....	Prev Reading - 06.03.2...	Previ Reading - 07.03.2...
1	TOTAL GENERATION (KWH)	2,401.00	2,567.00	2,590.00
2	AUXILIARY CONSUMPTION (KWH)	1,800.00	1,930.00	2,001.00
3	UNITS INJECTED IN TO GRID (KWH)	1,400.00	1,520.00	1,609.00
4	PEAK GENERATION (KWH)	900.00	930.00	1,090.00
5	CAPTIVE/ OWN CONSUMPTION (KWH)	0.00	0.00	0.00
6	CUF	0.00	0.00	0.00

**Item Details**

Object	Result	Today's Meter Reading- 10.03.2021
TOTAL GENERATION (KWH)	0.00	
AUXILIARY CONSUMPTION (KWH)	0.00	
UNITS INJECTED IN TO GRID (KWH)	0.00	
PEAK GENERATION (KWH)	0.00	
CAPTIVE/ OWN CONSUMPTION (KWH)	0.00	0
CUF	0.00	0

## 6. Report (T Code- ZPM\_SLRREPORT)

This transaction can be use by all users. This transaction is there to check the Report against Solar Station, Subsiedery, Area, Plant, Month, Year and other details. Selection criteria and Execution screen shot is given below.

**Solar Report**

Enter Details

Solar Station	WCL9001001	to	
Subsidiary		to	
Area		to	
Plant		to	
Reading Date		to	

Execution Result-

**Solar Report**

Solar Station	Solar Station Desc	Sub...	Area	Plant	Multiplying Factor	Reading Date	Total Gene	Auxiliary C	Units Injected in to	Peak Gener	Captive/ O	CUF	Performar
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	01.03.2021	2,000	1,500	1,000	500			
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	02.03.2021	2,100	1,600	1,100	600			
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	03.03.2021	2,200	1,700	1,200	700			
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	04.03.2021	2,300	1,800	1,300	800			
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	05.03.2021	2,401	1,800	1,400	900			
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	06.03.2021	2,567	1,930	1,520	930			
WCL9001001	TADALI SOLAR POWER PLANT	WCL	9001	9004	15	07.03.2021	2,590	2,001	1,609	1,090			

## Working Hours Upload Process

- I. Enter T-Code **ZPM\_HOURS**
- II. Enter **Company Code, Plant** & Select File in **Input File** which file you want to Upload.
- III. Click on **Execute**.

### Input File Format.

File	Home	Insert	Page Layout	Formulas	Data	Review	View	Help	Share	Comments
G6										
	A	B	C	D	E	F	G	H	I	J
1	Equipment Number	OEM Serial Number	Description	Measurement Date	Measurement Time	Measuring Point	Characteristic	Hours	Reading Taken By	Remark
2	10000323	60656	DUMPER #60656	05.01.2022	7:00:00	932	RUNNING_HOURS	15	ABC	OK
3	10000323	60656	DUMPER #60656	06.01.2022	7:00:00	932	RUNNING_HOURS	15	ABC	OK
4										
5										

### Equipment wise Working Hrs. Breakdown Hrs. and Maintenance Hrs.



#### Select Plant and Company

Company Code

MCL

Plant

5065

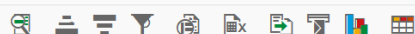
#### Upload file

Input File

C:\Users\SP00731962\Desktop\ZPM\_HOURS Upload.xlsx

### Measuring Document Created

#### Equipment wise Working Hrs. Breakdown Hrs. and Maintenance Hrs.



Status	Ind	Equipment	OEM Serial	Description	Date	Time	MeasPoint	Characteristic	Difference	Read by	Text	Message text
OK	10000323	60656	DUMPER #60656	09.01.2022	07:00:00	932	RUNNING_HOURS	2	ABC	OK	Measurement Document 18988 successfully created	
OK	10000323	60656	DUMPER #60656	08.01.2022	07:00:00	932	RUNNING_HOURS	2	ABC	OK	Measurement Document 18989 successfully created	

## Diesel Consumption Process

- I. Enter T-Code **ZPM\_DC**
- II. Enter **Company Code, Plant** & Select File in **Input File** which file you want to Upload.
- III. Click on **Execute**.

### Input File

FileHomeInsertPage LayoutFormulasDataReviewViewHelp

Share

Comment

G3

### Diesel Consumption Entry



#### Select Plant and Company

Company Code

MCL

Plant

5055

#### Upload file

Input File

C:\Users\SP00731962\Desktop\Business Process\ZPM\_DC\_Upload Dies..

### Measuring Document Created

#### Upload Diesel Consumption through Measuring Document

Number	Status	Ind	Equipment	Description	MeasPoint	Date	Time	Difference	Diff.	Read by	Text	Message text	VEH MTR	RD	FULL/NOTFU
1	OC	10000465	DUMPER #3381	4401	01.04.2022	09:00:00	10	X	P.P.SINGH	No overflow	Measurement Document 18990 successfully created	2020	X		
2	OC	10000465	DUMPER #3381	4401	02.04.2022	08:00:00	50	X	P.P.SINGH	No overflow	Measurement Document 18991 successfully created	1323	X		