

PLANT MAINTENANCE MODULE (PM)

Dismantling of 'Equipment' from 'Functional Location'

The equipment objects installed in substation bays would be **dismantled** in the following cases.

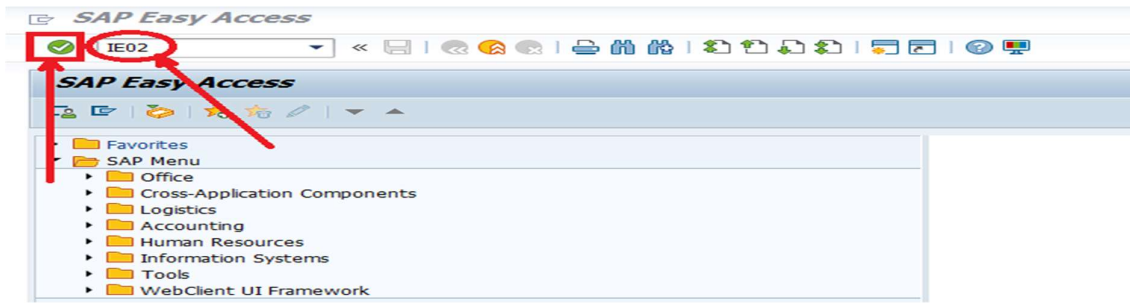
- **Case-I:** In the first case, whenever any equipment in service is to be replaced with higher capacity equipment during PTR augmentations etc., the low capacity equipment in service which is in working condition is **dismantled from the existing functional location** and installed elsewhere **within the same substation**.
In this case the dismantled equipment would continue to be in equipment status even after dismantling and would not appear as **inventory stock**.
- **Case-II:** In the second case, the equipment in service needs to be dismantled whenever for any reason, it is to be installed in any **other substation** either within the **same plant** or in a **different plant** or the same is to be sent to the **central stores**.
- **Case-III:** In the third case, whenever any equipment in service is damaged, the same is **dismantled from the existing functional location** and replaced with similar equipment in working condition.
 - If the damaged equipment is repairable, it would be got repaired by sending to workshop of external agency. The same can be re-installed elsewhere after repair/refurbishment, after suitably changing the valuation type. After re-installation, it would again continue in service as equipment with **original equipment ID**, existing before dismantling.
 - If the damaged equipment is found to be irreparable, it would be declared as **unserviceable item** and disposed of as **scrap**.

In respect of the **cases II and III**, during dismantling process, equipment is received into the concerned **substation storage location** as **inventory stock** after suitably changing its **valuation type**.

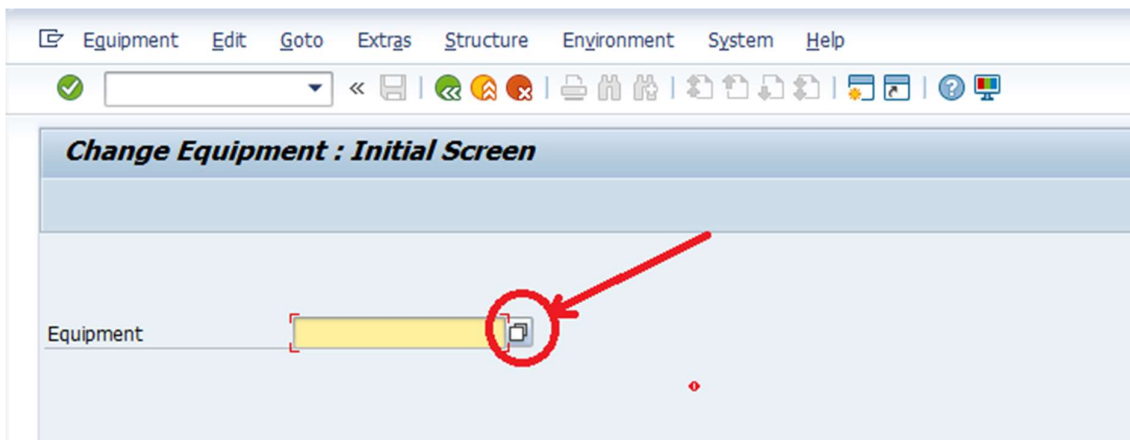
In this document, the process of dismantling in the above three cases is illustrated with relevant SAP screen shots.

Case-I: Dismantling of equipment without goods movement:

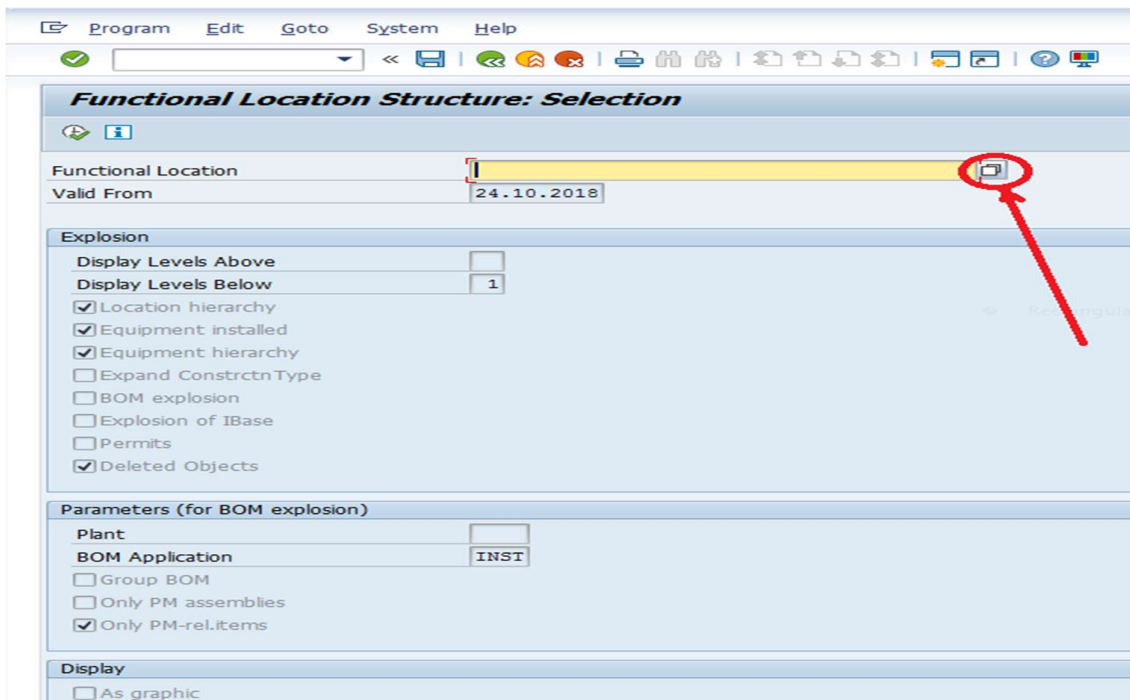
Step-1: Enter T-code **IE02** in the command field and click **enter** icon as shown below.



Step-2: Click **search** button beside **Equipment** field as indicated below for selection of equipment to be dismantled.



Step-3: Again click the search button beside **Functional Location** field.



Step-4: For example, if the equipment ID of a CT in one of the transformer bays in Chillakallu Sub station is to be selected, the search can be made as follows:

The functional location IDs of all transformer bays start with **TB**. Further, the SS code for Chillakallu SS is **CHKL** and it comes in the middle of functional location code. Hence **TB*CHKL*** may be entered in Functional Location field and **execute** button may be clicked as indicated below, for fetching all transformer bays in the **Chillakallu SS**.

Display Functional Location: Functional Location Selection

Functional Location Selection

Functional Location: **TB*CHKL*** to []

Partner: []

Selection Profile: []

Address [X]

Classification

Class Type: [] Include Subordinate Classes []

Class: [] Valuation [X]

Linear Data

Segment: [] to []

Start Point: [] to []

End Point: [] to []

Length: [] to []

Unit of Measure: []

Linear Reference Pattern: [] to []

Maintenance Data

FunctLocDescrip.: [] to []

Planning plant: [] to []

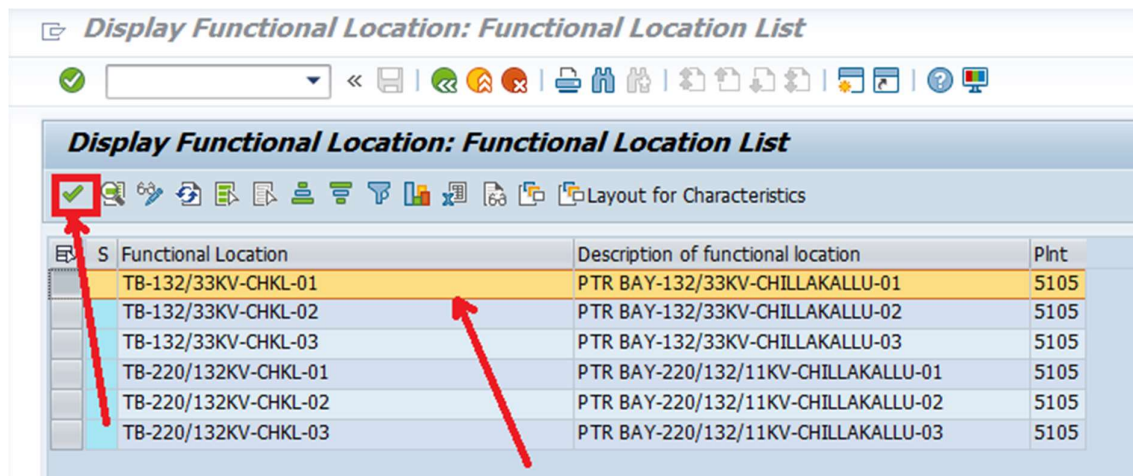
Planner group: [] to []

Construction type: [] to []

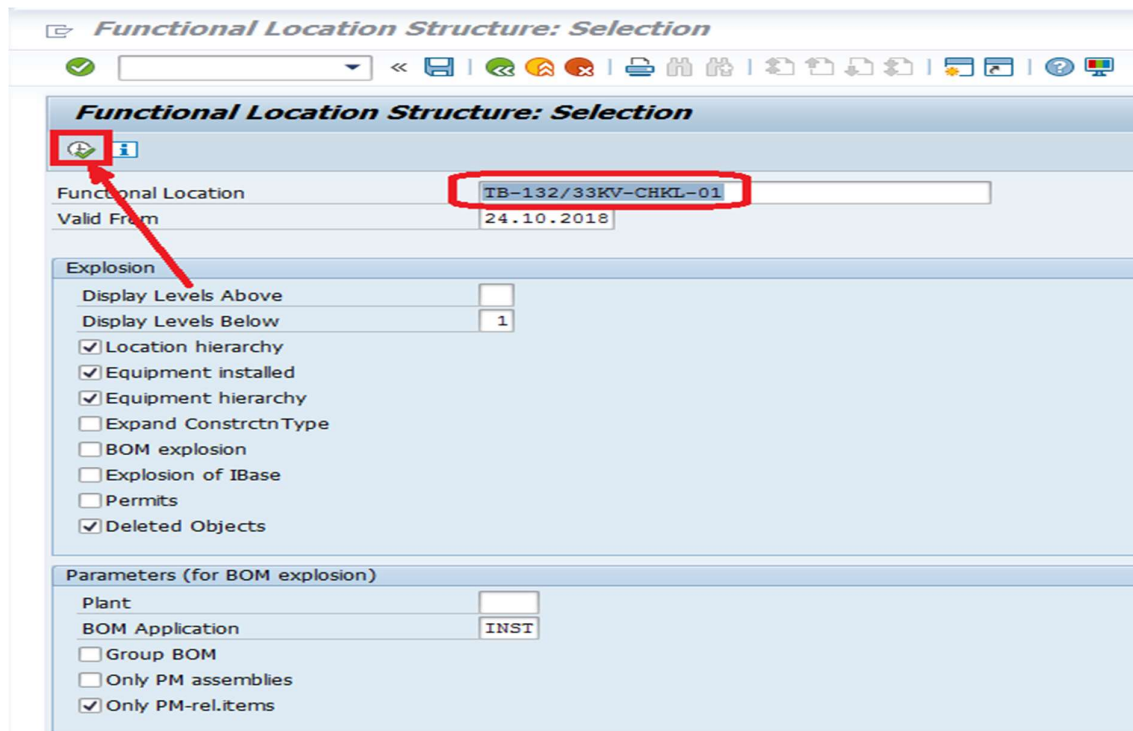
Catalog profile: [] to []

AuthorizGroup: [] to []

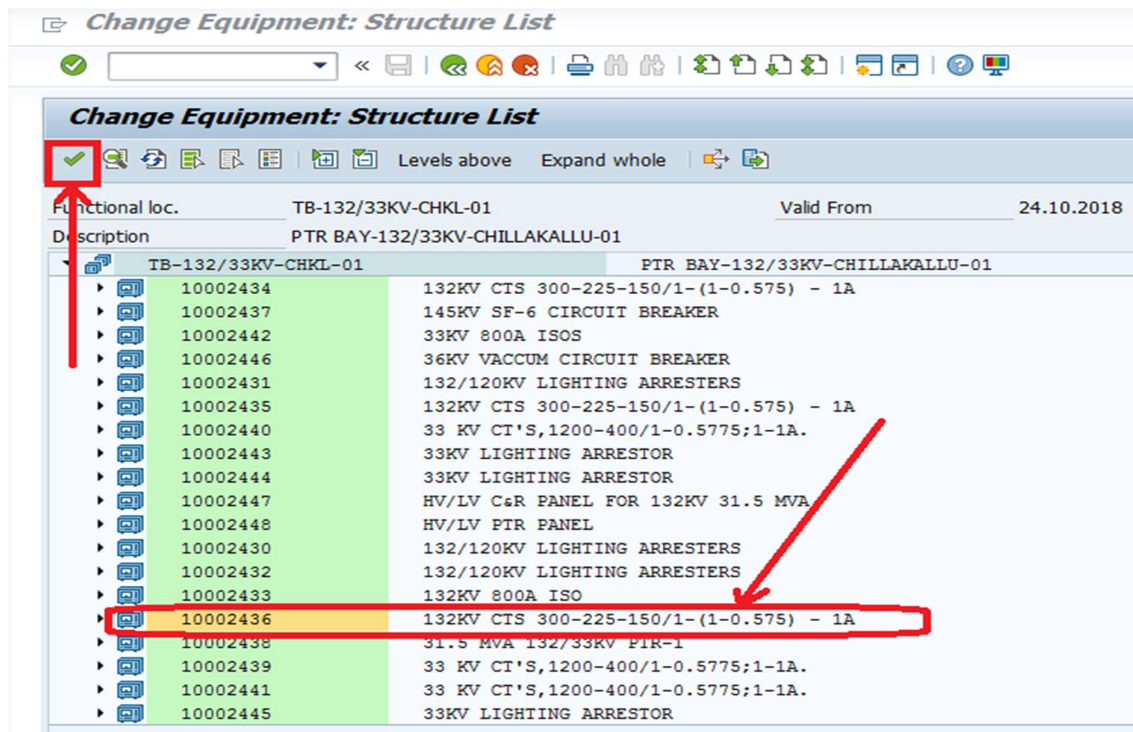
Step-5: The list of Transformer bays in Chillakallu SS would be displayed as shown below. Select the required transformer bay object and click **enter** button as indicated in below screen shot.



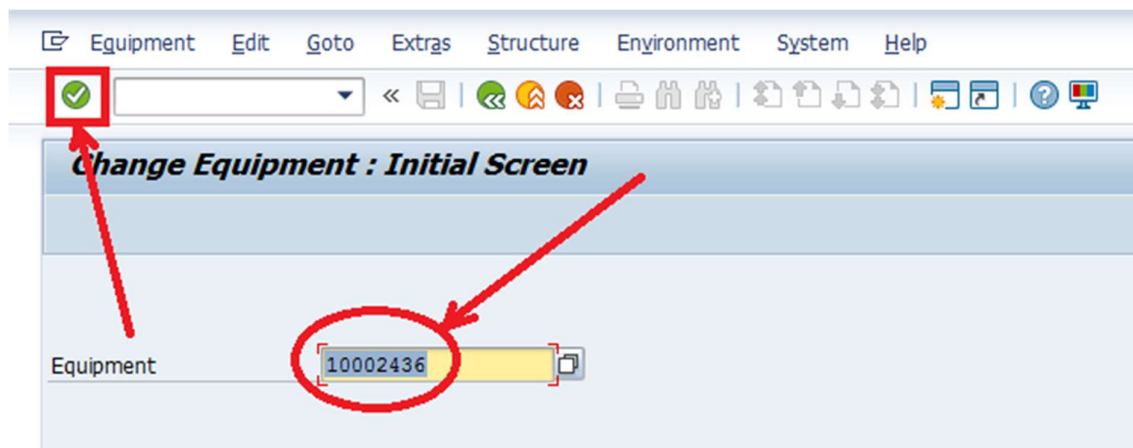
Step-6: The selected functional location would flow into the functional location structure screen as shown below. Now click **execute** button as shown below.



Step-7: The equipment present in the selected transformer bay would be displayed. Select the equipment to be dismantled and click **enter** button as shown below.



Step-8: The selected equipment would flow into the Change Equipment screen as shown below. Click enter button as shown below.



Step-9: Click **Structure** tab as indicated below.

Change Equipment : General

Equipment: 10002436 Category: M Machines

Description: 132KV CTS 300-225-150/1-(1-0.575) - 1A Intern.note

Status: INST

Valid From: 07.09.2014 Valid To: 31.12.9999

General Location Organization **Structure** SerData

General data

Class:
Object type: CT 132KV 132KV CURRENT TRFR
AuthorizGroup:
Weight:
Inventory no.:
Size/dimension:
Start-up date: 20.12.1985

Reference data

AcquistnValue: INR Acquisition date:

Manufacturer data

Manufacturer: WS INDUSTRIES LTD ManufCountry: IN
Model number: Constr.yr/mth: /
ManufPartNo.:
ManufSerialNo.: 910717

Step-10: Click the structure icon as shown below.

Change Equipment : Structure

Equipment: 10002436 Category: M Machines

Description: 132KV CTS 300-225-150/1-(1-0.575) - 1A Intern.note

Status: INST

Valid From: 07.09.2014 Valid To: 31.12.9999

General Location Organization **Structure** SerData

Structuring

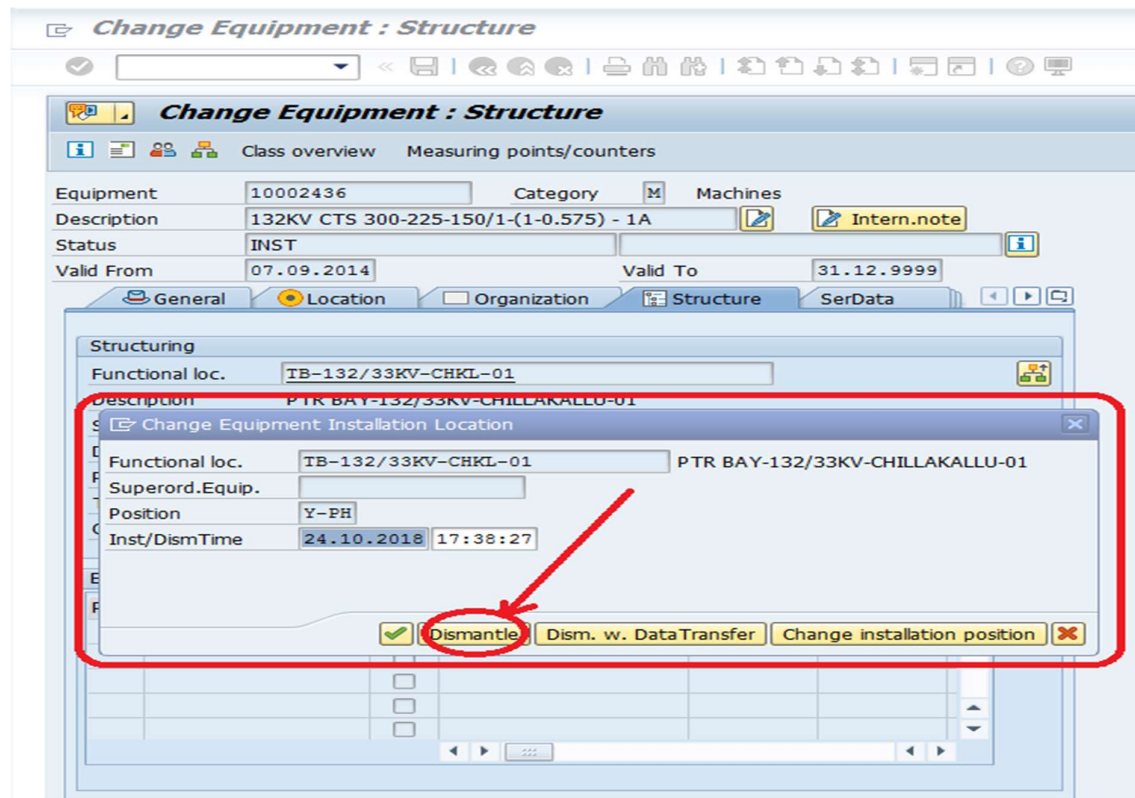
Functional loc.: TB-132/33KV-CHKL-01
Description: PTR BAY-132/33KV-CHILLAKALLU-01
Superord.Equip.:
Description:
Position: Y-PH
TechIdentNo.:
ConstType:

Equipment

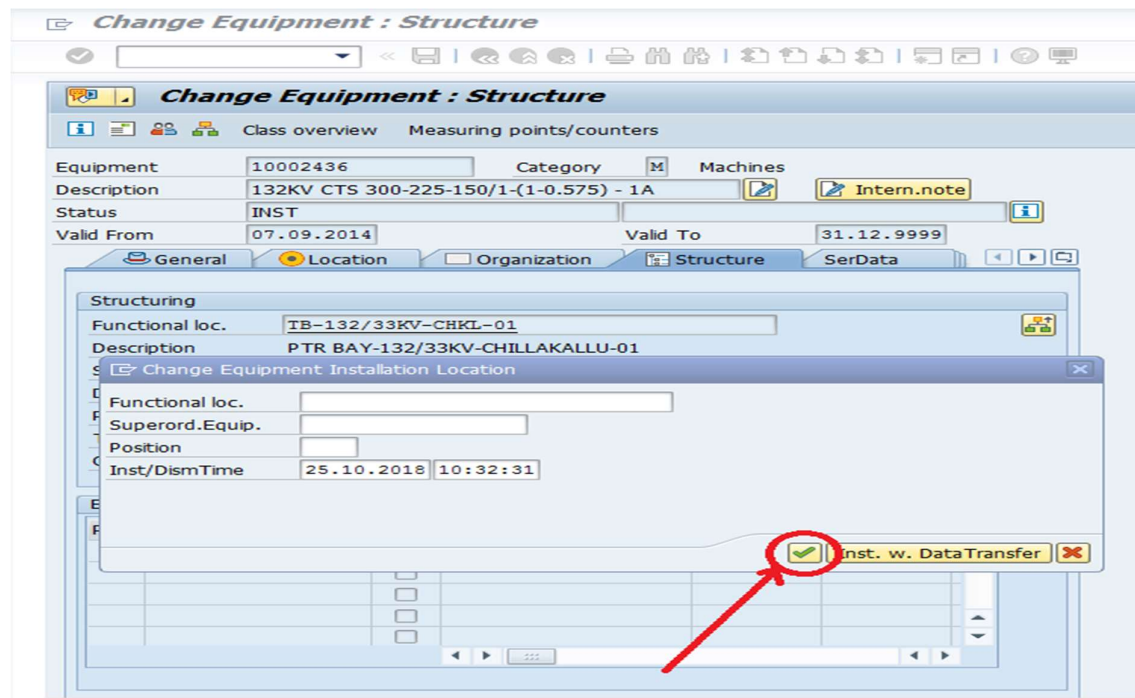
Pos.	Equipment	Sb-Eq	Description	EqmtType	Mfr
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			

Step-11: A pop up window **Change Equipment Installation Location** would be displayed. In this window, click **Dismantle** as shown below, for

dismantling the equipment from the functional location **TB-132/33KV-CHKL-01**.



Step-12: Now click **enter** as shown below.



Step-13: It may be noted that the functional location field in the **structure** tab is now blank as shown below since the equipment is dismantled from the functional location i.e transformer bay. Further it may be also be noted that the status of equipment which was earlier **INST (Installed)** is now changed to **AVLB (Available)**, as indicated below. Click **save** icon.

The screenshot shows the 'Change Equipment : Structure' dialog box. The 'Status' field is set to 'AVLB' and the 'Functional loc.' field is empty. Red circles and arrows highlight these fields and the 'save' icon in the toolbar.

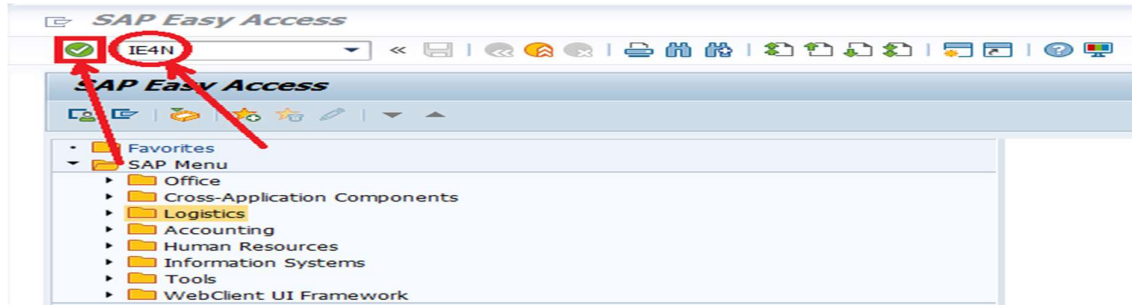
Pos.	Equipment	Sb-Eq	Description	EqmtType	Mfr
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
		<input type="checkbox"/>			

Cases-II&III: Dismantling of equipment with goods movement:

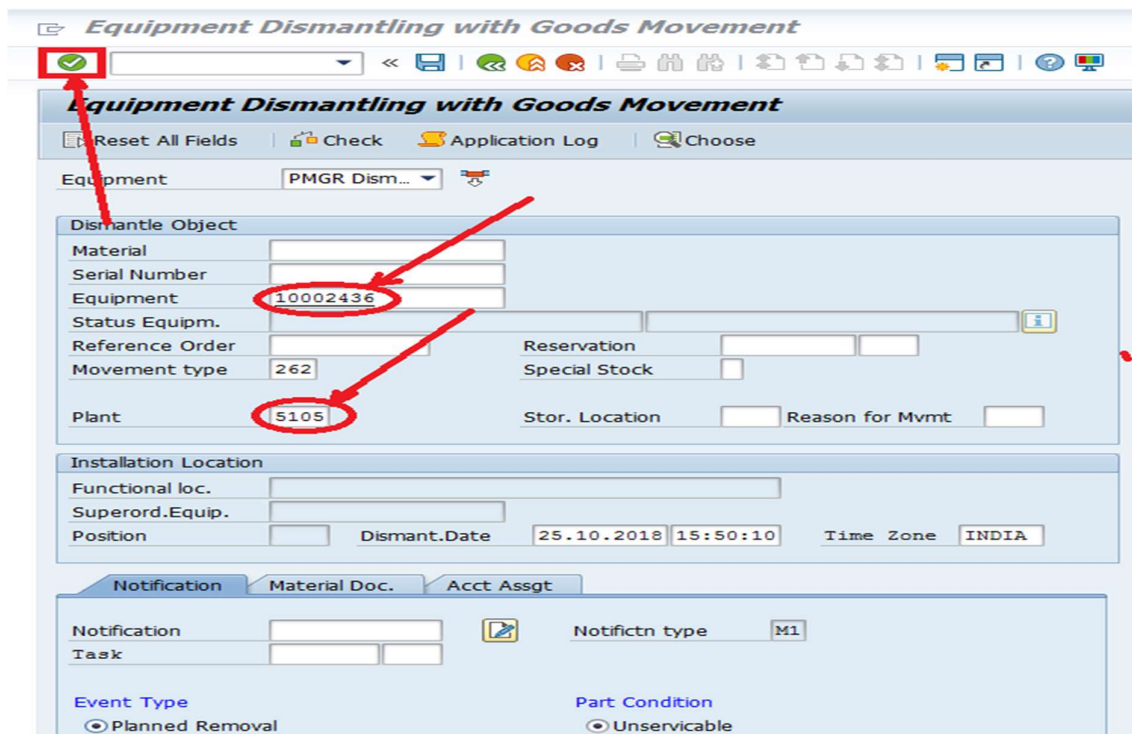
Note: i) For carrying out dismantling in this method, the equipment master data should have details of **material no** and **serial no** in the **SerData** tab.

ii) In the process of dismantling of equipment in this method, indicating a **maintenance order** number is mandatory for the purpose of accounting assignment. Since dismantling of equipment normally takes place during execution of maintenance works against a maintenance order, the same maintenance order number can be indicated as reference order. (Ref: **Step-9**)

Step-1: Enter T-code **IE4N** in the command field and click **enter** as indicated below.



Step-2: Enter the **equipment ID, Plant** in which equipment is installed, and click **enter** as indicated below.



Step-3: It may be noted that details such as material no of equipment, serial number and functional location etc are automatically updated as shown below. Click **search** button beside **Stor.Location** field, as indicated below.

Equipment Dismantling with Goods Movement

Reset All Fields Check Application Log Choose

Equipment PMGR Dism...

Dismantle Object

Material 10001253 132KV CT 300-225-150/1-0.5775,1-1A

Serial Number 26011965

Equipment 10002436 132KV CTS 300-225-150/1-(1-0.575) - 1A

Status Equipm. INST

Reference Order

Movement type 262

Plant 5105

Reservation

Special Stock

Stor. Location Reason for Mvmt

Installation Location

Top Functional ZONE-VJWD-APTR

Functional loc. TB-132/33KV-CHKL-01

Position

Dismant.Date 25.10.2018 15:55:39

Time Zone INDIA

Notification Material Doc. Acct Assgt

Notification

Task

Notifictn type M1

Event Type Part Condition

Planned Removal Unservicable

Step-4: From the list displayed in the pop up window, select the storage location and click **choose** as indicated below.

Equipment Dismantling with Goods Movement

Reset All Fields Check Application Log Choose

Equipment PMGR Dism...

Dismantle Object

Material 10001253 132KV CT 300-225-150/1-0.5775,1-1A

Serial Number 26011965

Equipment 10002436 132KV CTS 300-225-150/1-(1-0.575) - 1A

Status Equipm. INST

Reference Order

Movement type 262

Plant 5105

Reservation

Special Stock

Stor. Location

Installation Location

Top Functional ZONE-VJWD-APTR

Functional loc. TB-132/33KV-CHKL-01

Position

Dismant.Date 25.10.2018 15:55:39

Time Zone INDIA

Notification Material Doc. Acct Assgt

Notification

Task

Notifictn type M1

Event Type Part Condition

Planned Removal Unservicable

Possible Entries: Storage locations

Maint.	Plant	SLoc	Descr. of Storage Loc.
X	5105	B008	132KV CH KOTA
X	5105	B009	132KV/Avanigadda
X	5105	B010	132KV KANUMOLU
X	5105	B011	132KV NUZIVIDU
X	5105	B012	132KV R GUDEM
X	5105	B059	132 KV MTM
X	5105	B201	220KV Gunadala
X	5105	B202	220KVChilakallu
X	5105	B203	220KV Kondapalli
X	5105	B204	220KV Nunna
X	5105	B205	220KV Gudiwada
X	5105	R301	ANF FHTI GDI

Choose Cancel Maintenance status

Step-5: Click search button beside **Reason for Mvmt** field, as indicated below.

Equipment Dismantling with Goods Movement

Equipment: PMGR Dism...

Dismantle Object

Material	10001253	132KV CT 300-225-150/1-0.5775,1-1A
Serial Number	26011965	
Equipment	10002436	132KV CTS 300-225-150/1-(1-0.575) - 1A
Status Equipm.	INST	
Reference Order		Reservation
Movement type	262	Special Stock
Plant	5105	RE for order
		Stor. Location
		B202 Reason for Mvmt

Installation Location

Top Functional	ZONE-VJWD-APTR	
Functional loc.	TB-132/33KV-CHKL-01	PTR BAY-132/33KV-CHI...
Position		
Dismant.Date	25.10.2018	15:55:39
Time Zone	INDIA	

Notification | **Material Doc.** | **Acct Assgt**

Notification: Notifictn type: M1

Task:

Event Type | **Part Condition**

☒ Planned Removal | ☐ Unservicable

Step-6: Select appropriate reason for dismantling from the list displayed and click **enter** as shown below.

Equipment Dismantling with Goods Movement

Equipment: PMGR Dism...

Dismantle Object

Material	10001253	132KV CT 300-225-150/1-0.5775,1-1A
Serial Number	26011965	
Equipment	10002436	132KV CTS 300-225-150/1-(1-0.575) - 1A
Status Equipm.	INST	
Reference Order		Reservation
Movement type	262	Special Stock
Plant	5105	RE for order
		Stor. Location
		B202 Reason for Mvmt

Installation Location

Top Functional	ZONE-VJWD-APTR	
Functional loc.	TB-132/33KV-CHKL-01	PTR BAY-132/33KV-CHI...
Position		
Dismant.Date	25.10.2018	15:55:39
Time Zone	INDIA	

Notification | **Material Doc.** | **Acct Assgt**

Notification: Notifictn type: M1

Task:

Event Type | **Part Condition**

☒ Planned Removal | ☐ Unservicable

Reason for Movement (1) 3 Entries found

Restrictions

Movement type: 262

Reas.	Reason for Movement
0001	Augmentation
0002	Equipment Failure
0003	RMI

3 Entries found

Step-7: Click **Material Doc** tab and click **search** button beside **valuation type** field as indicated below.

Equipment Dismantling with Goods Movement

Reset All Fields | Check | Application Log | Choose

Equipment: PMGR Dism...

Dismantle Object

Material	10001253	132KV CT 300-225-150/1-0.5775,1-1A
Serial Number	26011965	
Equipment	10002436	132KV CTS 300-225-150/1-(1-0.575) - 1A
Status Equipm.	INST	
Reference Order		Reservation
Movement type	262	Special Stock
Plant	RE for order 5105	Stor. Location
		B202 Reason for Mvmt
		1

Installation Location

Top Functional	ZONE-VJWD-APTR	
Functional loc.	TB-132/33KV-CHKL-01	PTR BAY-132/33KV-CHI...
Position		
Dismant.Date	25.10.2018	17:42:52
Time Zone	INDIA	

Notification | **Material Doc.** | **Acct Assgt**

Document Date: 25.10.2018 | Posting Date: 25.10.2018

Reference: | Doc.Header Text: |

Item

Val. type	
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Step-8: Select appropriate valuation type and click **enter** as shown below.

Equipment Dismantling with Goods Movement

Reset All Fields | Check | Application Log | Choose

Equipment: PMGR Dism...

Dismantle Object

Material	10001253	
Serial Number	26011965	
Equipment	10002436	
Status Equipm.	INST	
Reference Order		
Movement type	262	
Plant	RE for order 5105	

Installation Location

Top Functional	ZONE-VJWD-APTR	
Functional loc.	TB-132/33KV-CHKL-01	
Position		
Dismant.Date		

Notification | **Material Doc.** | **Acct**

Document Date: 25.10.2018 | Reference: |

Item

Val. type	
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Valuation type (1) 5 Entries found

Restrictions

Val. type	
DAMAGED	
IRREPAIRAB	
NEW	
REFURBISHE	
USED	

5 Entries found

Step-9: Click **Acct Assgt** tab and enter maintenance order number in the **order** field and click **Check** icon as shown below. (Ref: **Note** in the beginning of document)

Equipment Dismantling with Goods Movement

Reset All Fields **Check** Application Log Choose

Equipment PMGR Dism...

Dismantle Object

Material	10001253	132KV CT 300-225-150/1-0.5775,1-1A
Serial Number	26011965	
Equipment	10002436	132KV CTS 300-225-150/1-(1-0.575) - 1A
Status Equipm.	INST	
Reference Order		Reservation
Movement type	262	Special Stock
Plant	RE for order S105	Stor. Location B202 Reason for Mvmt 1

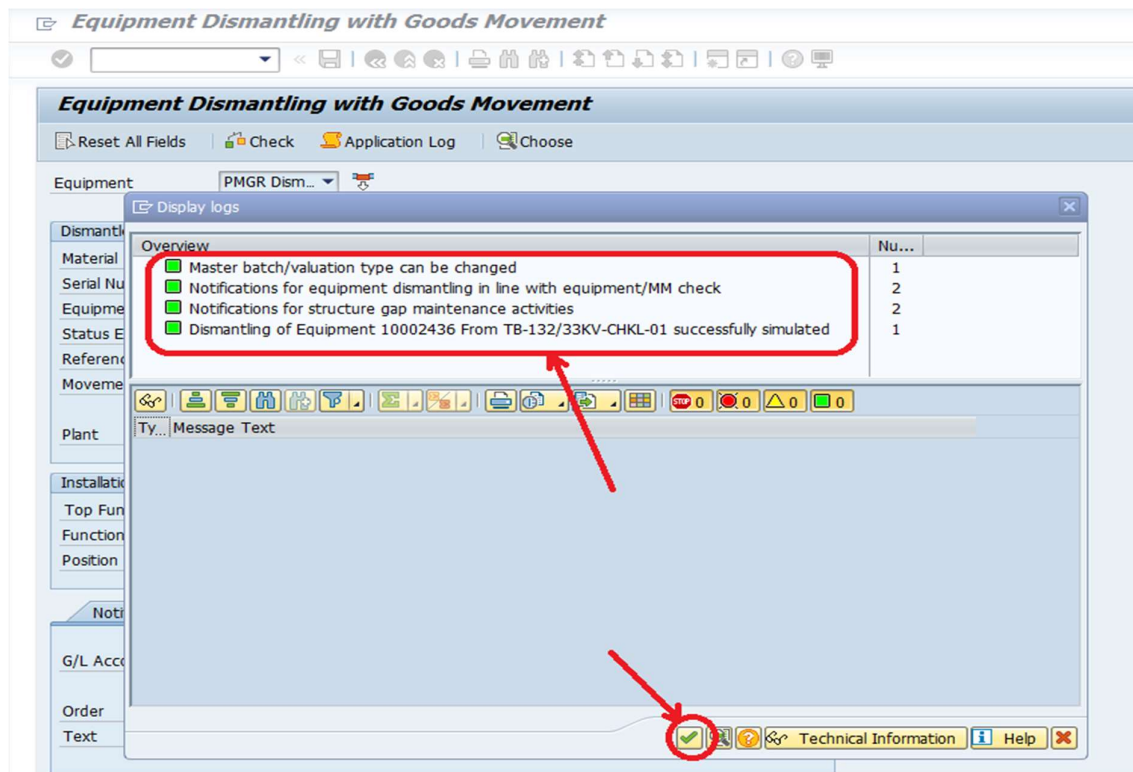
Installation Location

Top Functional	ZONE-VJWD-APTR	
Functional loc.	TB-132/33KV-CHKL-01	PTR BAY-132/33KV-CHI...
Position		
Dismant.Date	26.10.2018	11:51:29
Time Zone	INDIA	

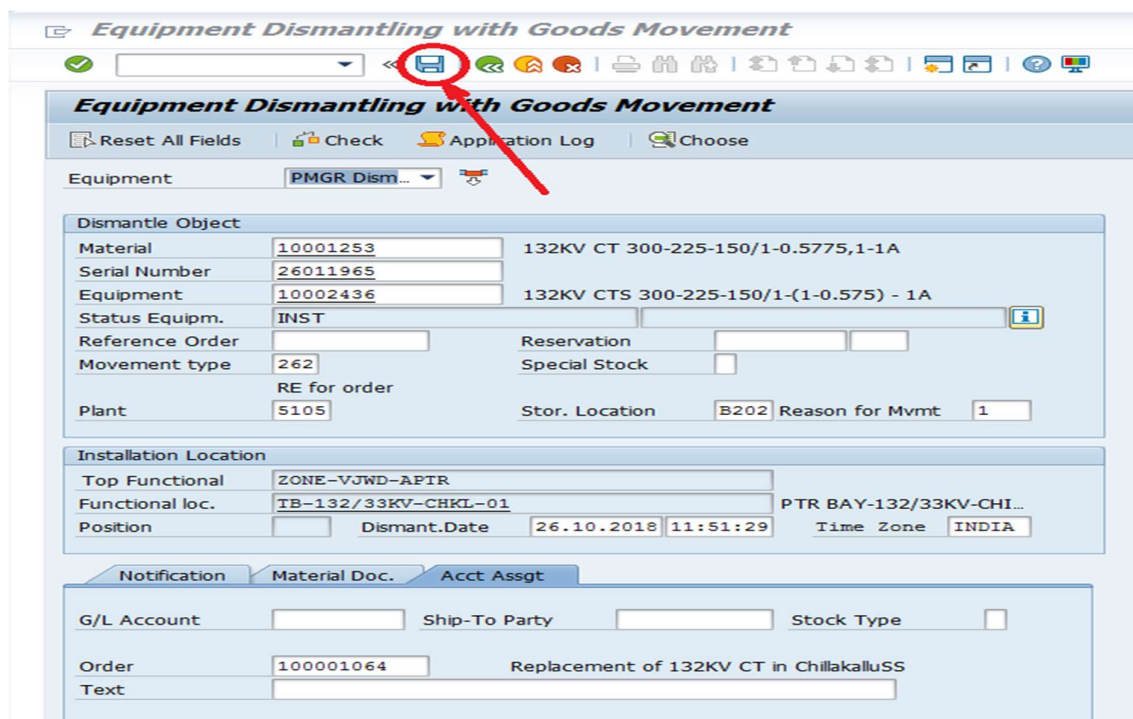
Notification **Material Doc.** **Acct Assgt**

G/L Account		Ship-To Party		Stock Type	
Order	100001064				
Text					

Step-10: The display log as indicated below would be displayed, which means that execution of the dismantling process is in order. Click **enter** as shown below.



Step-11: Click **save** button as indicated below.



Step-12: A message indicating that '**dismantling process completed**' is displayed in the status bar as shown below.

Equipment Dismantling with Goods Movement

Reset All Fields | Check | Application Log | Choose

Equipment: PMGR Dism...

Dismantle Object

Material:
 Serial Number:
 Equipment:
 Status Equipm.:
 Reference Order: Reservation:
 Movement type: 262 Special Stock:
 Plant: 5105 Stor. Location: Reason for Mvmt:

Installation Location

Functional loc.:
 Superord.Equip.:
 Position: Dismant.Date: 26.10.2018 12:13:03 Time Zone: INDIA

Notification | Material Doc. | Acct Assgt

Notification:
 Task:
 Notifictn type: M1

Event Type **Part Condition**

☐ Planned Removal ☐ Unservicable

☒ Dismantling process completed. For detailed information check application log.

With the above step, the equipment would be dismantled from its functional location and would appear as stock in the Substation storage location.

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