

PLANT MAINTENANCE MODULE(PM)

Creation of Equipment in SAP/PM Module

In 'SAP' PM module, all the Zones, Circles, Divisions, Sub-divisions, Sub-Stations, Sub-Station bays and Transmission lines are denoted as "functional Locations". All the equipment installed in Sub-Stations and Transmission Towers are denoted as "Equipment".

Whenever new Sub-Stations are commissioned or new bays are created in the existing Sub-Stations or any existing equipment is replaced with new equipment, new functional locations and equipment need to be created in SAP. Creation of functional locations is carried out by the SAP Core Team at Vidyut Soudha. But the creation of corresponding 'equipment' should be done by the concerned field maintenance wing only.

Process of creation of Equipment

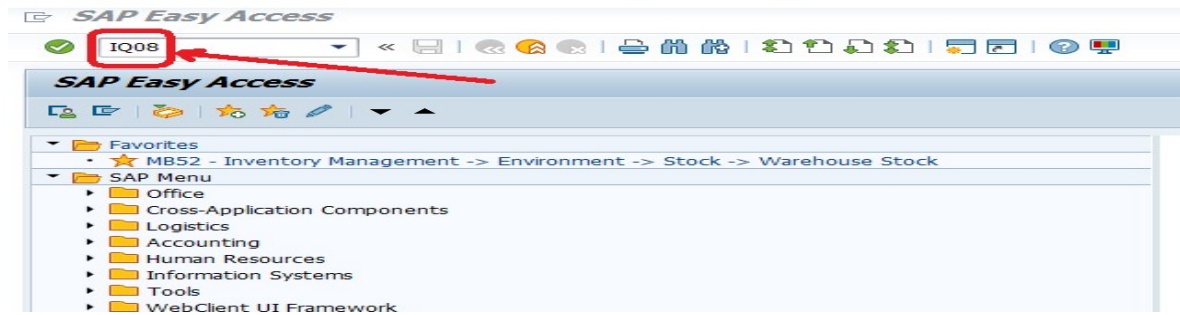
Normally most of the equipments installed in the Sub-Station bays are serialized items. i.e., they do have serial numbers. During the process of procurement of such serialized equipment, the equipment supplied by the suppliers against Purchase Orders, are received in the 'Central Stores', as inventory through 'Goods receipt' process in SAP. Whenever such serialized equipment is received in the stores through SAP, a unique **equipment ID** is automatically created by the system.


Whenever such equipment is drawn from the Central Stores and installed in Sub-Stations/Lines, 'Equipment View' for the same is to be activated by the concerned field maintenance wing and the equipment should be installed under the concerned 'Functional location'. For carrying out the above activity, the serial number of the 'equipment' should be known to the user (Serial number is normally indicated on the 'name plate' of the equipment).

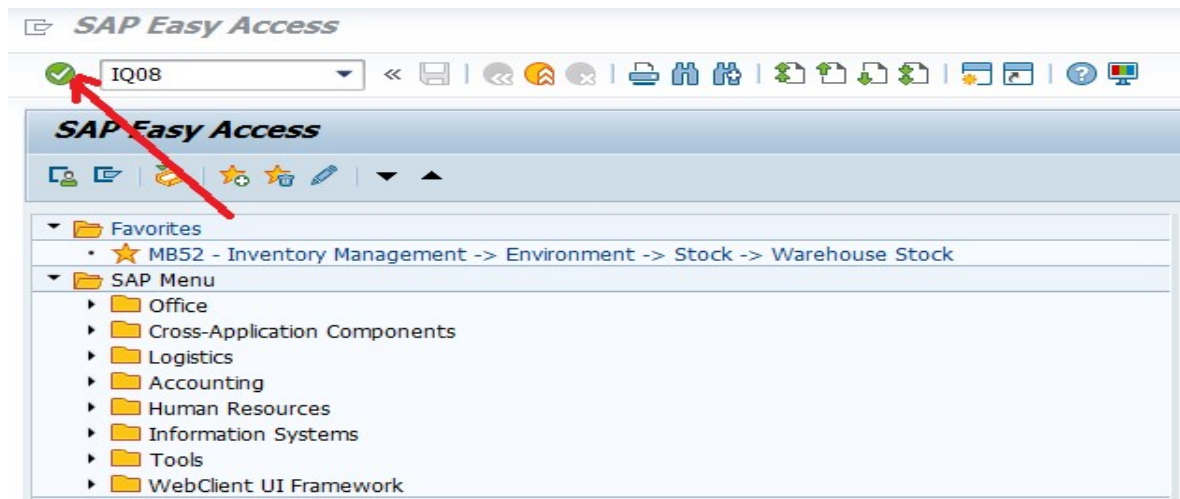
However in case of equipment without serial number such as 'Isolators' etc., equipment ID should be created by normal equipment creation process in PM module, since equipment ID is not created for such equipment by the system automatically at the inventory level.

The Process of Equipment view activation and installation under Functional Locations for serialized equipment is explained below with screen shots.

STEP-1: T-Code '**IQ08**' is to be entered in command field as shown below.



STEP-2: Click on  icon or press 'Enter' button.



STEP-3: Enter the serial number of the Equipment.

Change Material Serial Number: Serial Number Selection

Equipment selection

Equipment		to		
Object Description		to		
Material		to		
Serial Number	ALSTOM125	to		
Partner				
Selection Profile				

Classification

Class Type		<input type="checkbox"/> Include Subordinate Classes
Class		

Linear Data

Segment		to		
Start Point		to		
End Point		to		
Length		to		
Unit of Measure				
Linear Reference Pattern		to		

General data

Technical obj. type		to		
Equipment category		to		
AuthorizGroup		to		
Inventory number		to		

STEP-4: Click Execute symbol.

Change Material Serial Number: Serial Number Selection

Equipment selection

Equipment		to		
Object Description		to		
Material		to		
Serial Number	ALSTOM125	to		
Partner				
Selection Profile				

Classification

Class Type		<input type="checkbox"/> Include Subordinate Classes
Class		

Linear Data

Segment		to		
Start Point		to		
End Point		to		
Length		to		
Unit of Measure				
Linear Reference Pattern		to		

General data

Technical obj. type		to		
Equipment category		to		
AuthorizGroup		to		
Inventory number		to		

STEP-5: Click on 'Equipment View'.

Change Material Serial Number : SerNo.Detail

Equipment view

Material: 10001196 220 KV CT 1200-800/1-1-1-1A (400 KVSS)
 Serial Number: ALSTOM125 Type: M Machines
 Status: AVLB

SerData Warranty & Documents

General
 Equipment:
 Last SerialNo: 20020433 History

Stock information
 Stock type:
 Plant:
 StorageLocation: Company Code:

STEP-6: Click on Save button.

Change Material Serial Number : SerNo.Detail

Save

Class overview Measuring points/counters Equipment view

Material: 10001196 220 KV CT 1200-800/1-1-1-1A (400 KVSS)
 Serial Number: ALSTOM125 Type: M Machines
 Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note
 Status: AVLB
 Valid From: 12.07.2018 Valid To: 31.12.9999

General Location Organization Structure SerData

General
 Equipment: 10053242
 Last SerialNo: 20020433 History

Stock information
 Stock type:
 Plant:
 StorageLocation: Company Code:
 Stock batch:
 Special stock:
 Customer:
 Sales order: / Master batch: NEW
 Vendor: Date L.GoodsMvt:
 WBS element:

STEP-7: Go back to the previous screen as shown below.

STEP-10: This will take you to the Change Equipment screen as shown below.

The screenshot shows the 'Change Equipment : Location' screen in SAP. The 'Location' tab is active. The 'MaintPlant' field is highlighted with a red circle and a red arrow pointing to it. The 'Location' field is also highlighted with a red circle. The 'Room' field is highlighted with a red circle. The 'Plant section' field is highlighted with a red circle. The 'Work center' field is highlighted with a red circle. The 'ABC indic.' field is highlighted with a red circle. The 'Sort field' field is highlighted with a red circle. The 'Address' section is also visible.

STEP-11: In the location tab, enter the maintenance plant in which the equipment is being installed. In the example shown below, it is '5105' Vijayawada plant.

The screenshot shows the 'Change Equipment : Location' screen in SAP. The 'Location' tab is active. The 'MaintPlant' field is highlighted with a red circle and a red arrow pointing to it, containing the value '5105'. The 'Location' field is highlighted with a red circle. The 'Room' field is highlighted with a red circle. The 'Plant section' field is highlighted with a red circle. The 'Work center' field is highlighted with a red circle. The 'ABC indic.' field is highlighted with a red circle. The 'Sort field' field is highlighted with a red circle. The 'Address' section is also visible.

STEP-12: Click on ENTER button.

Change Equipment : Location

Equipment: 10053242 Category: M Machines

Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note

Status: AVLB

Valid From: 12.07.2018 Valid To: 31.12.9999

Location data:

MaintPlant	S105
Location	
Room	
Plant section	
Work center	
ABC indic.	
Sort field	

STEP-13: Now select the 'Structure' tab. In the structure tab the equipment can be installed in the concerned functional location such as sub station bay. The prerequisite condition for installation of equipment is it should be in 'AVLB' status as shown in the below screen shot.

Change Equipment : General

Equipment: 10053242 Category: M Machines

Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note

Status: AVLB

Valid From: 12.07.2018 Valid To: 31.12.9999

General data:

Class	
Object type	
AuthorizGroup	
Weight	
Inventory no.	
Size/dimension	
Start-up date	

Reference data:

AcquistnValue	
Acquisition date	

Manufacturer data:

Manufacturer	
Model number	
ManufPartNo.	
ManufCountry	
Constr.yr/mth	

STEP-14: In the 'Structure' tab, click on change installation location symbol as shown below.

Change Equipment : Structure

Class overview Measuring points/counters

Equipment 10053242 Category M Machines

Description 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note

Status AVLB

Valid From 12.07.2018 Valid To 31.12.9999

General Location Organization Structure SerData

Structuring

Functional loc. []

Description []

Superord.Equip. []

Description []

Position []

TechIdentNo. []

ConstType 10001196 220 KV CT 1200-800/1-1-1-1A (400 KVSS)

STEP-15: In the pop up window, enter the functional location wherein the equipment is going to be installed.

Change Equipment : Structure

Class overview Measuring points/counters

Equipment 10053242 Category M Machines

Description 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note

Status AVLB

Valid From 12.07.2018 Valid To 31.12.9999

General Location Organization Structure SerData

Change Equipment Installation Location

Functional loc. []

Superord.Equip. []

Position []

Inst/DismTime 12.07.2018 16:49:44

Inst. w. Data Transfer

STEP-16: In the functional location(FL) field, there will be a search



button as for selection of the required FL. Once the search button is clicked, screen as shown below would appear. In this screen the maintenance plant and plant section as indicated below should be entered from the search options available against each

field. Plant section is nothing but the code of the sub station in which the equipment is to be installed.

STEP-17: Click on execute button.

STEP-18: All the FLs under the Sub Station i.e all the bays in the SS would be displayed as shown below. From the list select the bay in which equipment is to be installed, and click enter button as indicated below.

Display Functional Location: Functional Location List

Display Functional Location: Functional Location List

Layout for Characteristics

Functional Location	Description of functional location	Plnt
FB-132KV-CHKL-MDRA-01	FB-132KV-CHILLAKALLU-MADHIRA-01	5105
FB-132KV-CHKL-NDGM-01	FB-132KV-CHILLAKALLU-NANDIGAMA-01	5105
FB-132KV-CHKL-RLYF-01	FB-132KV-CHILLAKALLU-RAILWAY TRCTN-01	5105
FB-132KV-CHKL-RLYF-02	FB-132KV-CHILLAKALLU-RAILWAY TRCTN-02	5105
FB-132KV-CHKL-RMCO-01	FB-132KV-CHILLAKALLU-RAMCO CEMNTS-01	5105
FB-132KV-CHKL-RPRM-01	FB-132KV-CHILLAKALLU-RAMAPURAM-01	5105
FB-132KV-CHKL-SPRM-01	FB-132KV-CHILLAKALLU-SEETHAPURAM-01	5105
FB-220KV-CHKL-KDPL-01	FB-220KV-CHILLAKALLU-KONDAPALLY-01	5105
FB-220KV-CHKL-KDPL-02	FB-220KV-CHILLAKALLU-KONDAPALLY-02	5105
FB-220KV-CHKL-NKPL-01	FB-220KV-CHILLAKALLU-NARKET PALLI-01	5105
FB-220KV-CHKL-SRPT-01	FB-220KV-CHILLAKALLU-SURYAPET-01	5105
FB-220KV-CHKL-VTPS-01	FB-220KV-CHILLAKALLU-VTPS-01	5105
FB-220KV-CHKL-VTPS-02	FB-220KV-CHILLAKALLU-VTPS-02	5105
FB-33KV-CHKL-ANPL-01	FB-33KV-CHILLAKALLU-ANUMANCHIPALLI-01	5105
FB-33KV-CHKL-BLPD-01	FB-33KV-CHILLAKALLU-BALASUPADU-01	5105
FB-33KV-CHKL-CHKL-01	FB-33KV-CHILLAKALLU-CHILLAKALLU-01	5105
FB-33KV-CHKL-HCAG-01	FB-33KV-CHILLAKALLU-HCL AGRO-01	5105
FB-33KV-CHKL-HCLF-01	FB-33KV-CHILLAKALLU-HEMADRI CEMNT-01	5105
FB-33KV-CHKL-HRTX-01	FB-33KV-CHILLAKALLU-HARINI TEXTILES-01	5105
FB-33KV-CHKL-JPTF-01	FB-33KV-CHILLAKALLU-JAGGAIAHPET-01	5105
FB-33KV-CHKL-LNGL-01	FB-33KV-CHILLAKALLU-LINGALA-01	5105
FB-33KV-CHKL-PPRL-01	FB-33KV-CHILLAKALLU-PENUGANCHI PROLU-01	5105
FB-33KV-CHKL-SAIL-01	FB-33KV-CHILLAKALLU-SAIL-01	5105
SS-220KV-CHKL	CHILLAKALLU -220/132/33KV-SS	5105

STEP-19: The bay FL ID would flow into the pop up window already opened as indicated above.

Equipment 10053242 Category M Machines

Description 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note

Status AVLB

Valid From 12.07.2018 Valid To 31.12.9999

General Location Organization Structure SerData

Structuring

Functional loc.

Description

Change Equipment Installation Location

Functional loc. FB-220KV-CHKL-KDPL-01

Superord.Equip.

Position

Inst/DismTime 13.07.2018 15:25:45

Inst. w. Data Transfer

STEP-20: Now click enter.

Equipment: 10053242 Category: M Machines
 Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note
 Status: AVLB
 Valid From: 12.07.2018 Valid To: 31.12.9999

General Location Organization Structure SerData

Structuring

Functional loc. Description

Change Equipment Installation Location

Functional loc. FB-220KV-CHKL-KDPL-01
 Superord.Equip.
 Position
 Inst/DismTime 13.07.2018 15:25:45

Inst. w. DataTransfer

STEP-21: The ID of selected bay in the sub station would now be flowing in to the 'Structure' tab as indicated below.

Equipment: 10053242 Category: M Machines
 Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note
 Status: INST
 Valid From: 12.07.2018 Valid To: 31.12.9999

General Location Organization Structure SerData

Structuring

Functional loc. FB-220KV-CHKL-KDPL-01
 Description: FB-220KV-CHILLAKALLU-KONDAPALLY-01
 Superord.Equip.
 Description
 Position
 TechIdentNo.
 ConstType: 10001196 220 KV CT 1200-800/1-1-1-1A (400 KVSS)

Pos.	Equipment	Sb-Eq	Description	EqmtType	Mfr

STEP-22: Now click on save button as indicated below.

Change Equipment : Structure

Equipment: 10053242 Category: M Machines

Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS) Intern.note

Status: INST

Valid From: 12.07.2018 Valid To: 31.12.9999

General Location Organization Structure SerData

Structuring

Functional loc.: FB-220KV-CHKL-KDPL-01

Description: FB-220KV-CHILLAKALLU-KONDAPALLY-01

Superord.Equip.:

Description:

Position:

TechIdentNo.:

ConstType: 10001196 220 KV CT 1200-800/1-1-1-1A (400 KVSS)

STEP-23: After saving the following screen would appear. Click on Enter button as indicated below.

Change Equipment : Initial Screen

Equipment: 10053242

Equipment 10053242 changed

Now by checking in the 'location' and 'Organization' tabs, it can be noted that the required information in these tabs has been automatically copied from the master data pertaining to the Functional location wherein the equipment has been installed.

Change Equipment : Location

Equipment: 10053242 Category: Machines
 Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS)
 Status: INST
 Valid From: 13.07.2018 Valid To: 31.12.9999

Location data

MaintPlant	5105	SE/OMC/Vjayawada
Location	VJWDCHKLMN	DIV-Vjayawada-SD-chillakallu-MNT
Room	B202	
Plant section	CKL	220 CHILLAKALU 123
Work center	MNT	MAINTENANCE
ABC indic.	B	Essential
Sort field		

Change Equipment : Organization

Equipment: 10053242 Category: Machines
 Description: 220 KV CT 1200-800/1-1-1-1A (400 KVSS)
 Status: INST
 Valid From: 13.07.2018 Valid To: 31.12.9999

Account assignment

Company Code	3000	APTRANSCO	VIJAYAWADA
Business Area	5105	SE/OMC/VIJAYAWADA	
Asset			
Cost Center	5105S20001	/ 3000	ADE/M/ Chillakallu
WBS Element			
StandgOrder			
SettlementOrder			

Responsibilities

Planning plant	5105	SE/OMC/Vjayawada
Planner group	M05	MNT1 2CHILLAKALLU 1234
Main WorkCtr	MNT	/ 5105 MAINTENANCE
Catalog profile	FDR BAY	Feeder Bay

With this the process of activation of equipment view and installation of the same in the functional location i.e Sub Station bay is completed.

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