

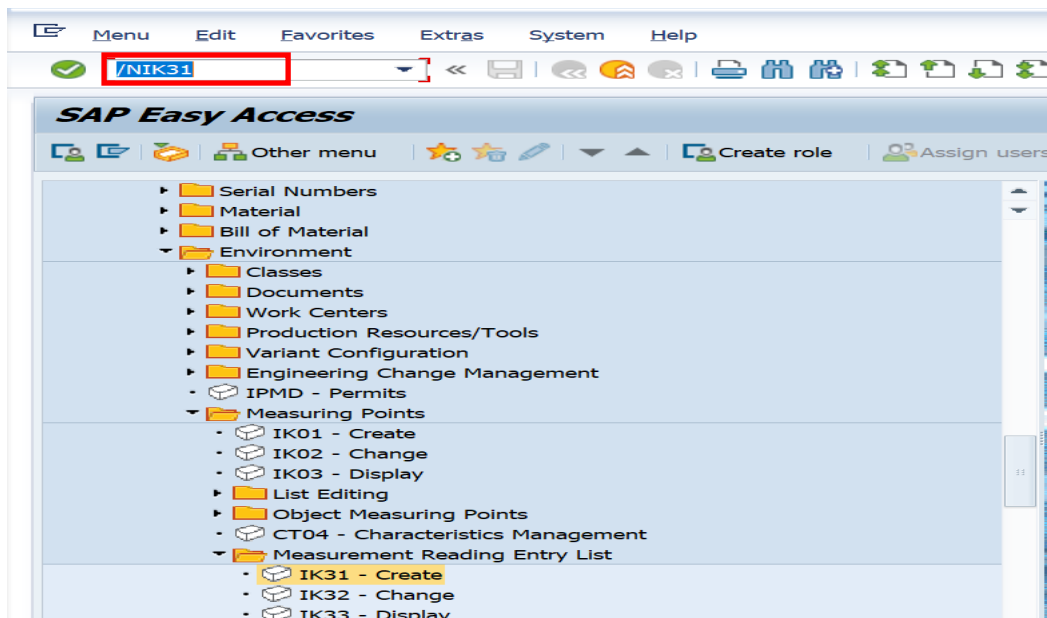


GSS user will enter measurement point reading

1.1. Condition based maintenance process

1.1.1. Enter the IK31 in command box.

SAP Menu	<i>Logistics → Plant Maintenance → Management of technical objects → Environment → Measuring Point → Measurement Reading Entry List → Create</i>
Transaction code	IK31



Step	Action
(1)	Enter T-code IW31 and Press enter



1.1.2. Create Measurement Reading Entry List

Entry list name:

Step	Action
(1)	Enter Entry list name and press Enter.

1.1.3. Create Measurement Reading Entry List

Header data

Entry list number:

Entry list name:

Short descriptn:

Meas. Recording List

se...	Sort fi...	Ob...	MeasPoint/Counter	Co...	MeasPoint short text
0		<input checked="" type="checkbox"/>	19		
0		<input checked="" type="checkbox"/>	20	<input type="checkbox"/>	
0		<input checked="" type="checkbox"/>			
0		<input checked="" type="checkbox"/>			
0		<input checked="" type="checkbox"/>			

Step	Action
------	--------



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Step	Action
(1)	Enter the Measuring Point/Counter
(2)	Enter Short description and press enter

1.1.4. Create PM Notification: Breakdown maintenance

Measurement Reading Entry List: Create

Header data

Entry list number:

Entry list name: TRF

Short description: TRF Measuring point Entry List

Meas. Recording List

se...	Sort fi...	Ob...	MeasPoint/Counter	Co...	MeasPoint short text	MeasPosition
1		<input checked="" type="checkbox"/>	19		Winding temp trf1 of GSS Khagul	TRF1
2		<input checked="" type="checkbox"/>	20		OIL CONDITION	TRF1
0		<input checked="" type="checkbox"/>				

Measurement Reading Entry List: Create

Entry list name:

Measurement reading entry list 3 saved

Step	Action
(1)	Measurement Reading Entry List 3 created



1.1.5. Collective entry of Measurement Documents :

Step	Action
(1)	Click Continue

Step	Action
(1)	Enter Entry list Number
(2)	Click Continue



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



MeasDocuments Edit Goto Environment System Help

Collective Entry of Measurement Documents: Overview

New Entries

Default Values for New Entries

MeasTime 07.03.2019 / 15:28:58 Read by YASH_PM1

MeasPoint	Measurement position	Description	Val.	A
Rdg/CtrRdg	Unit	CounterRdgDifference	MeasurementTime	R P
MeasPointObject	Description			
<input checked="" type="checkbox"/> 19	TRF1	Winding temp trf1 of GSS Khagul		<input type="checkbox"/>
70	kV		07.03.2019 15:28:58	<input type="checkbox"/>
Equipment	10000034 Transformer 100 MVA-01			
<input checked="" type="checkbox"/> 20	TRF1	OIL CONDITION		<input type="checkbox"/>
80	kV		07.03.2019 15:28:58	<input type="checkbox"/>
Equipment	10000034 Transformer 100 MVA-01			

Step	Action
(1)	Select Measuring point and enter Reading
(2)	Click Save

MeasDocuments Edit Goto Environment System Help

Collective Entry of MeasDocuments: Initial screen

Collective Entry

Entry list 3 TRF Measuring point Entry List

Default values

MeasTime 07.03.2019 / 15:52:47

Read by YASH_PM1

2 measurement documents created



1.1.6. Change Notification : Selection of Notifications

MeasDocuments Edit Goto Environment System Help

/niw28

Collective Entry of MeasDocuments: Initial screen

Collective Entry

Entry list 3 TRF Measuring point Entry List

Default values

MeasTime 07.03.2019 / 15:52:47

Read by YASH_PM1

Program Edit Goto System Help

Change Notifications: Selection of Notifications

Notification status

Outstanding Postponed In process Completed Sel.profil Addr. X

Notification selection

Notification		to		
Notification Type	24	to		
Functional Location		to		
Equipment		to		
Material		to		
Serial Number		to		
Addit. device data		to		
Order		to		
Notification date	07.12.2018	to	07.03.2019	
Partners				

General Data/Administrative Data

Description to

Execute

Step	Action
(1)	Enter T-code IW28 And press enter.
(2)	Enter Notification Type and Click on Execute



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



List Edit Goto Notification Environment Settings System Help

Change Notifications: List of Notifications

Sel.	Notification	Notif. Date	Description
	400000000	03.01.2019	condition based maintenance
	400000002	08.01.2019	condition based maintenance
	400000003	24.01.2019	Measuring Reading limit Crossed
	400000004	24.01.2019	Measuring Reading limit Crossed
	400000005	24.01.2019	Measuring Reading limit Crossed
	400000006	24.01.2019	Measuring Reading limit Crossed
	400000007	24.01.2019	Measuring Reading limit Crossed
	400000008	24.01.2019	Measuring Reading limit Crossed
	400000009	24.01.2019	Measuring Reading limit Crossed
	400000010	05.02.2019	Measuring Reading limit Crossed
	400000011	05.02.2019	Measuring Reading limit Crossed
	400000012	05.02.2019	Measuring Reading limit Crossed
	400000013	07.03.2019	Measuring Reading limit Crossed
	400000014	07.03.2019	Measuring Reading limit Crossed
	400000015	07.03.2019	Measuring Reading limit Crossed
	400000016	07.03.2019	Measuring Reading limit Crossed

Step	Action
(1)	See The notification generated by the system and double click on it to go to notification change mode.



1.1.7. Change PM Notification: Condition Based maintenance

Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Condition based Main

Notification: 400000015 Z4 Measuring Reading limit Crossed

Notific. Status: OSNO CRTD

Order: [Icon]

Notification Shut Down requirement Activities Causes Malfunction, breakdown

Reference Object

Functional loc.: SS-FATUH-220KV-BA... 220 KV Side100 MVA T1

Equipment: 10000034 Transformer 100 MVA-01

Assembly: [Icon]

Subject

Description: Measuring Reading limit Crossed

Subject Long Text: [Text Area]

Responsibilities

Planner Group: M02 / 1100 GSS- Fatuha

Main WorkCtr: O&M / 1100 Operation & Maintenance dept

Reported By: [Field] Notif. Date: 07.03.2019 15:39:06

Step	Action
(1)	Check Equipment and other field in notification Page and scroll down



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Condition based Main

Partner

Item

Object Part TRF TRF TRANSFORMER

Damage TRF TR11 Control Cable Fault

Text

Cause

Cause Text

Entry 1 frm 0

Additional Data

Resp Person No. 9999999999

SLDC Charging Code

Approval Code of SLDC

ERLDC Charging Code

Approval Code of ERLDC

NLDC Charging Code

Approval Code of NLDC

NEA Charging Code

Approval Code of NEA

Intimation SE(O&M) Y Yes

OCC Approval A Not Applicable

Approval from Load S

Certificate for No Supply Disturbance

Remarks by GSS

Step	Action
(1)	Enter Object Part, Damage, Resp Person Number and scroll up to set the the user status.

Enter Shut Down Requirement Time

Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Condition based Main

Partner

Notification 400000015 Z4 Measuring Reading limit Crossed

Notific. Status CSNO CRTD

Order

Notification Shut Down requirement Activities Causes Malfunction, breakdown

Start/End Dates

Required Start 07.03.2019 16:59:34 Priority

Required End 07.03.2019 18:15:16

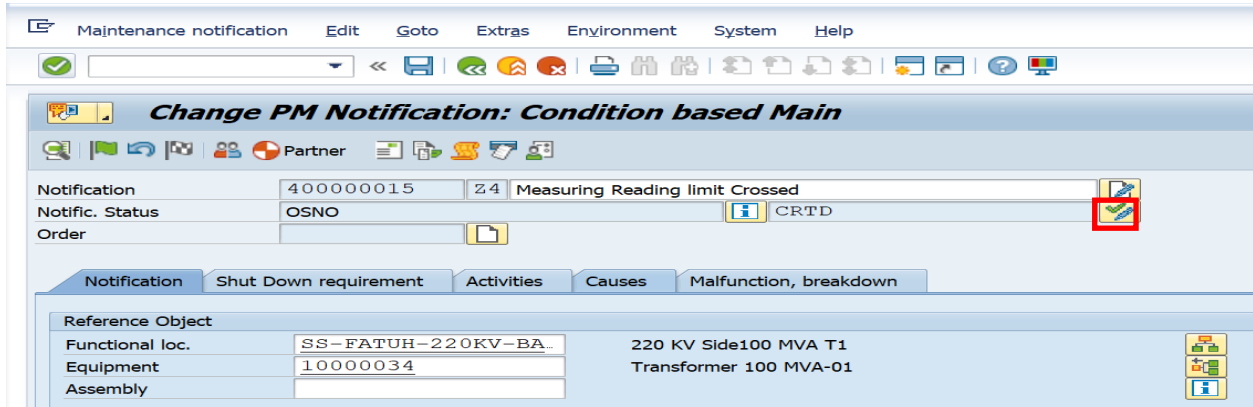



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance

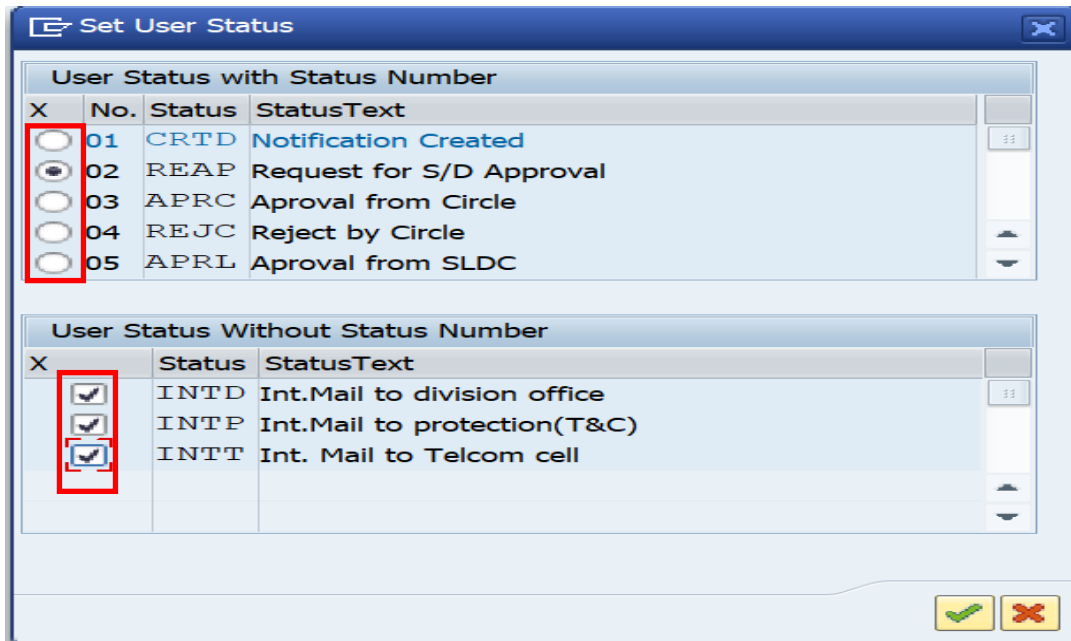


Step	Action
(1)	Enter Required start date and start time.

Set User status for shutdown approval



Step	Action
(1)	Click on set user status 





Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Step	Action
(1)	Click on Request for shutdown approval Radio button, and tick for send to intimation mail to Concerned department
(2)	Save notification

Sel.	Notification	Notif. Date	Description
	400000000	03.01.2019	condition based maintenance
	400000002	08.01.2019	condition based maintenance
	400000003	24.01.2019	Measuring Reading limit Crossed
	400000004	24.01.2019	Measuring Reading limit Crossed
	400000005	24.01.2019	Measuring Reading limit Crossed
	400000006	24.01.2019	Measuring Reading limit Crossed
	400000007	24.01.2019	Measuring Reading limit Crossed
	400000008	24.01.2019	Measuring Reading limit Crossed
	400000009	24.01.2019	Measuring Reading limit Crossed
	400000010	05.02.2019	Measuring Reading limit Crossed
	400000011	05.02.2019	Measuring Reading limit Crossed
	400000012	05.02.2019	Measuring Reading limit Crossed
	400000013	07.03.2019	Measuring Reading limit Crossed
	400000014	07.03.2019	Measuring Reading limit Crossed
✓	400000015	07.03.2019	Measuring Reading limit Crossed
	400000016	07.03.2019	Measuring Reading limit Crossed

Notification 400000015 saved

Step	Action
(2)	Notification 400000015 saved. After that go to T-Code IW22



Set User Status for Circle Approval

The screenshot shows the SAP 'Change PM Notification' interface. The main window title is 'Change PM Notification: Condition based Main'. The notification number is 400000015, and the subject is 'Measuring Reading limit Crossed'. A 'Set User Status' dialog box is open, displaying two tables:

User Status with Status Number			
X	No.	Status	StatusText
<input type="radio"/>	01	CRTD	Notification Created
<input type="radio"/>	02	REAP	Request for S/D Approval
<input checked="" type="radio"/>	03	APRC	Approval from Circle
<input type="radio"/>	04	REJC	Reject by Circle
<input type="radio"/>	05	APRL	Approval from SLDC

User Status Without Status Number		
X	Status	StatusText
<input checked="" type="checkbox"/>	INTD	Int.Mail to division office
<input checked="" type="checkbox"/>	INTP	Int.Mail to protection(T&C)
<input checked="" type="checkbox"/>	INTT	Int. Mail to Telcom cell

Step	Action
(2)	Click on APRC status for circle approval and click on continue. Then save the notification mail will be triggered to concerned department regarding approval.



Set User Status for Circle Approval

The screenshot shows the SAP 'Set User Status' dialog box. The main window behind it displays a notification for 'Measuring Reading limit Crossed' with status 'OSNO'. The dialog box contains the following data:

User Status with Status Number		
X	No.	Status StatusText
<input type="radio"/>	01	CRTD Notification Created
<input type="radio"/>	02	REAP Request for S/D Approval
<input type="radio"/>	03	APRC Approval from Circle
<input type="radio"/>	04	REJC Reject by Circle
<input checked="" type="radio"/>	05	APRL Approval from SLDC

User Status Without Status Number		
X	Status	StatusText
<input checked="" type="checkbox"/>	INTD	Int.Mail to division office
<input checked="" type="checkbox"/>	INTP	Int.Mail to protection(T&C)
<input checked="" type="checkbox"/>	INTT	Int. Mail to Telcom cell

Step	Action
(2)	Click on APRL status for circle approval and click on continue. Then save the notification mail will be triggered to concerned department regarding approval



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance




Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Condition based Main

Notification 400000015 Z4 Measuring Reading limit Crossed


Notific. Status OSNO APRL INTD INTP INTT

Order 


Notification Shut Down requirement Activities Causes Malfunction, breakdown

Reference Object

Functional loc.	SS-FATUH-220KV-BA..	220 KV Side100 MVA T1
Equipment	10000034	Transformer 100 MVA-01
Assembly		

Step	Action
(2)	Click on create order icon. 


Create Order


Order Type ZM04 

Planning Plant 1100

Business Area

Main Work Center O&M / 1100 Operation & Maintenance dept

Step	Action
(2)	Click on continue 



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Object Information

Reference	Obj.display	Environment	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Doc... <input type="checkbox"/> Sched. <input type="checkbox"/> Mnt..	
Select.indic.since 03/2018	Select.notif.since 07.03.2018		
BrkdnReptd 0	ProcssDays 0	<input type="button" value="IS"/>	
NotifCreat 4	CompNotif 0	<input type="button" value="Notif"/>	
OrdsCrted 0	Compl.ords 0	<input type="button" value="Order"/>	
Description		Date Completion P	
Measuring Reading limit Crossed		07.03.2019	
Measuring Reading limit Crossed		07.03.2019	
Measuring Reading limit Crossed		07.03.2019	

Maintenance items Link from/to Link object Replacement Equipment

Step	Action
(2)	Click on continue.

Order Edit Goto Extras Environment System Help

Create Condition based Maintenance Order : Central Header

Order ZM04 %00000000001 **Measuring Reading limit Crossed**

Sys.Status CRTD MANC NTUP

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

Person responsible
 PlannerGrp M02 / 1100 GSS- Fatuha
 Mn.wk.ctr O&M / 1100 Operation & Maintenan..

Notifctn 400000015
 Costs INR
 PMActType CDM Condition based mai..
 SystCond.

Dates
 Bsc start 07.03.2019 Priority
 Basic fin. 07.03.2019 Revision

Reference object
 Func. Loc. SS-FATUH-220KV-BA.. 220 KV Side100 MVA T1
 Equipment 10000034 Transformer 100 MVA-01
 Assembly

Malfctn data Damage Notif. dates

Step	Action
(2)	Click on operation Tab.



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Enter Operation to be Performed

General	Internal	External	Dates	Act. Data	Enhancement	Ex. Factor	Catalog
OpAc	SOp	Work ctr	Plant	Cont...	StTextK	S...	Operation short text
0010		O&M	1100	PM01			Measuring Reading limit Crossed
0020		O&M	1100	PM01			Change control cable
0030		O&M	1100	PM01			Check oil BDV

Step	Action
(1)	Enter operation required to perform the work.
(2)	Click on Component Data tab.

Enter component required

Gen. Data	Purch.	List	Graphics	Assy	Repl.	Catalog			
Item...	Component	Description	Lo...	Reqmt Qty	UM	IC	S...	SLoc	Pint
0010	1000000008						2	1005	
0020									

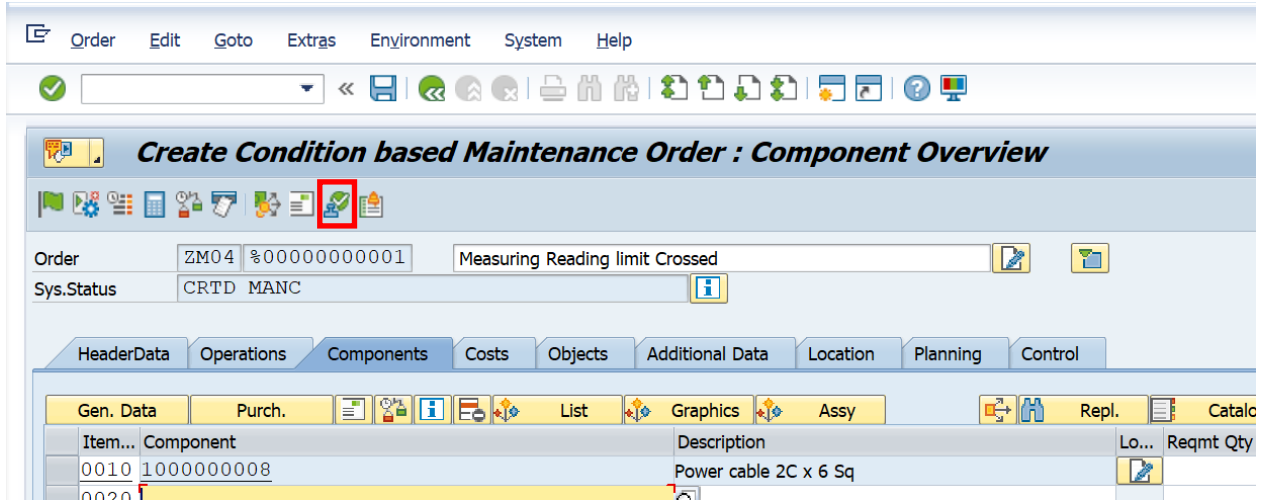
Step	Action
(1)	Enter Component required to perform the work.
(2)	Press Enter and Fill the operation number for which component is required.




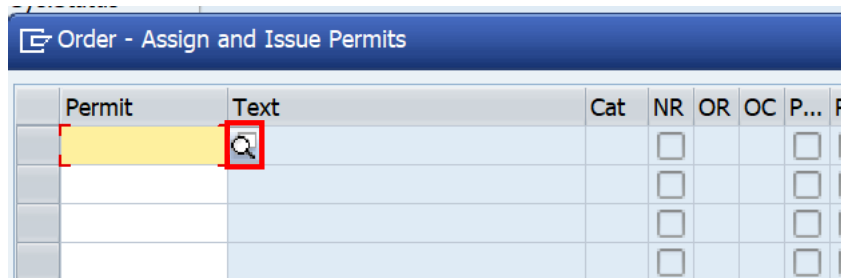
Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Assign Permit to the Order



Step	Action
(1)	Select permit Required to perform the work by clicking on icon 



Step	Action
(1)	Search required permit by clicking F4 or 



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Permit 3 Entries

Permit	Permit Text	Cat	Permit Category Text	
<input checked="" type="checkbox"/>	1	Hot work permit	A	Work approval
<input checked="" type="checkbox"/>	2	Electrical work	A	Work approval
<input checked="" type="checkbox"/>	3	High rise permit	A	Work approval

Step	Action
(1)	Select Permit and click on Continue.

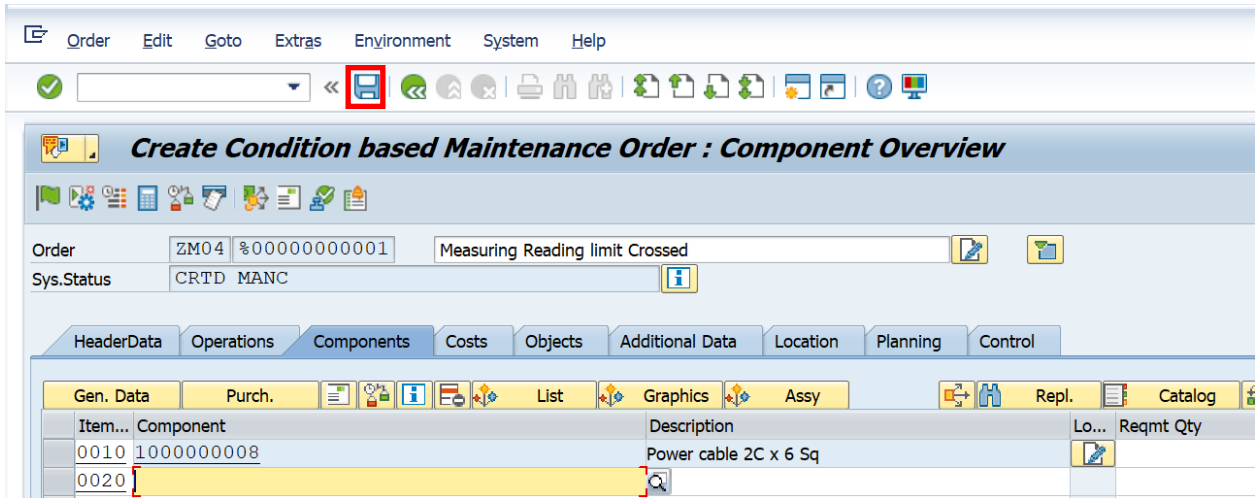
Order - Assign and Issue Permits

Permit	Text	Cat	NR	OR	OC	P...	P...	L...	NM	I...	Approved by	Entered by
1	Hot work permit	A	<input type="checkbox"/>	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2	Electrical work	A	<input type="checkbox"/>	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3	High rise permit	A	<input type="checkbox"/>	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
	<input type="text" value=""/>		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

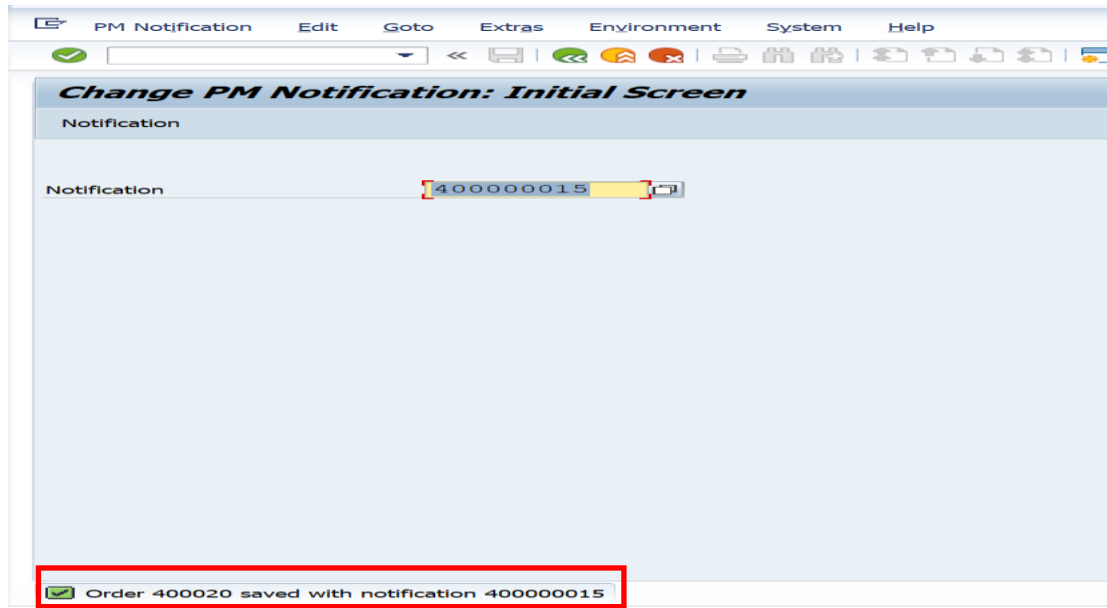
Step	Action
(1)	click on Continue.



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Step	Action
(1)	Save the Order



Step	Action
(1)	Order saved with number <input checked="" type="checkbox"/> Order 400020 saved with notification 400000015



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Program Edit Goto System Help

Change Permit: Selection of Permits

Not issued Issued

Permit selection

Only permits with authorization to be issued and reset

Permit category to

Permit to

Created by to

Date entered to

Last changed by to

Change date to

Duration to key date Days

Order status

Outstanding In process Completed

Order selection

Order to

Partner

Period To

Step	Action
(1)	Go to T-Code IPM2 to issue the permit.
(1)	Select Not issued and Outstanding Check box, and execute or Press F8.

List Edit Goto Permit Settings System Help

Change Permit: List of Permits

Refresh Choose Save Order

Light	Sel.	C	Permit	Permit Category Text	Created on	Created by	Changed On	Changed by	O	O	P	L	Order	Status	Basic start date	Basic finish date	Acti
			A 1	Hot work permit	07.03.2019	YASH_PM1			2				400020	CRTD	07.03.2019	07.03.2019	
			2	Electrical work	07.03.2019	YASH_PM1			2					CRTD	07.03.2019	07.03.2019	
			3	High rise permit	07.03.2019	YASH_PM1			2					CRTD	07.03.2019	07.03.2019	

Step	Action
(1)	Select permit to be issued for order and click on permit issue icon



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Document lines: Display messages

Typ	Itc	Message text
000	000	Permit 1 has been issued for order 400020
000	000	Permit 2 has been issued for order 400020
000	000	Permit 3 has been issued for order 400020

Technical Information | Current display variant | Print | Help

Step	Action
(1)	All required permits issued to order.

Order Change To Release the Maintenance order

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

/niw32

Change PM Notification: Initial Screen

Notification

Notification


Step	Action
(1)	Go to T-Code IW32



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Step	Action
(1)	Enter Order Number and press enter

Step	Action
(1)	Click on order release icon  and save maintenance order.



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Goods Issue to Order

Order 400020

Step	Action
(1)	Enter T-Code /NMIGO and press enter, and then select order and press enter

GI for order 261

Step	Action
(1)	Select goods issue to order and then enter order number and execute.



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Line	Mat. Short Text	W	OK	Qty in UnE	EUn	SLoc	Order	Activ...	Com...
1	Power cable 2C x 6 Sq	<input type="checkbox"/>	<input type="checkbox"/>	2	KM	220KV,Sampatchk	400020	0010	1000

Material: Power cable 2C x 6 Sq
Material Group: CAB-POWER
Equipment:

Item OK Line 1

Step	Action
(1)	Select item ok check box and then check and post the entry.

Material document 4900000389 posted



Order Change: For Technical completion of order

Goods Receipt Settings System Help

/iw32

Goods Issue Order - YASH_PM1

Show Overview Hold Check Post Help

A07 Goods Issue R08 Order

General

Document Date 07.03.2019 Material Slip

Posting Date 07.03.2019 Doc.Header Text

1 Individual Slip

Step	Action
(1)	Enter T-Code IW32 and press enter

Order Edit Goto Extras Environment System Help

Change Order: Initial Screen

Header data Operations Components Costs Additional data Planning Control

Order 400020

Step	Action
(1)	Enter order number and press enter



Project – SUGAM(BSPTCL)
Condition Based Maintenance Process
End User Manual - Plant Maintenance



Order Edit Goto Extras Environment System Help

Change Condition based Maintenance Order 400020: Central Header

Complete (business)

Order ZM04 400020 Measuring Reading limit Crossed

Sys.Status REL GMPS MACM PRC

HeaderData Operations Components Costs Objects Additional Data Location Planning Control

Person responsible

PlannerGrp M02 / 1100 GSS- Fatuha

Mn.wk.ctr O&M / 1100 Operation & Mainten...

Notifctn 400000015

Costs 0.00 INR

PMActType CDM Condition based mai..

SystCond.


Dates

Bsc start 07.03.2019 Priority

Basic fin. 07.03.2019 Revision

Reference object

Func. Loc. SS-FATUH-220KV-BA.. 220 KV Side100 MVA T1

Step	Action
(1)	Click on order TECO Icon 

Complete

Reference date 07.03.2019

Reference time 18:56:29

Complete notifctns

Notification

Malfnctn data Damage Notif. dates

Malfnctn data

Malf.Start 07.03.2019 17:55:48

Malf.End 00:00:00

Usage list

Step	Action
(1)	Enter Refrence Date and time. And click on continue.