

Project System
SAP Implementation at IESCO
Training Document
Change WBS BOM
CE PMU – PD GSC

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Change WBS BOM

1 Purpose

Document

Change in WBS BOM requires if the project cost estimate is revised and at the time of handing taking process. Any addition / deletion and/or change in quantity of material will be directly handled in operative projects instead of WBS BOM. (Main purpose is for material comparison only)

Prerequisites

Original WBS BOM should exist before changing it.

1.1 Process Steps (PMU / GSC)

1.1.1 Copy WBS BOM

Use

Following steps are followed during copying WBS BOM from one WBS to another WBS.

Procedure

1. Open "Create WBS BOM" App, from Fiori Launchpad.

The screenshot displays the 'Create WBS BOM: Initial Screen' in SAP. The interface includes a top navigation bar with the SAP logo and the title 'Create WBS BOM: Initial Screen'. Below the navigation bar is a menu bar with buttons for 'Menu', 'Back', 'Exit', 'Cancel', 'System', 'Check entries', 'WBS BOM ...', and 'Material BOM ...'. The main area contains several input fields:

- WBS Element:** PG.1713-1718.1.001.2
- Material:** 99902
- Plant:** 202
- BOM Usage:** F
- Validity:**
 - Change Number:** (empty field)
 - Valid From:** 20.04.2018

WBS BOM ...

2. Enter Following detail on the screen and press "Copy WBS BOM"

Field name	Description	User action and values	Comments
WBS Element		Example: PG.1713.1718.1.001.2	Enter the WBS element key, to which the WBS BOM is assigned.
Material		Example: 99900	Enter the material number, to which the WBS BOM is assigned.
Plant		Example: 202	Enter the Plant number relevant to the WBS BOM
BOM Usage		Example: F	Enter the usage relevant to the WBS BOM

Copy WBS BOM

WBS Element

PI.1708-1718.1.001.2

Material

99900

Plant

202

BOM Usage

F WBS BOM

Effectivity

Change Number

Valid From

20.04.2018

☐ Renumber

✓

✗

3. Enter Following detail on the screen and press “Copy WBS BOM”

Field name	Description	User action and values	Comments
WBS Element		Example: PI.1708.1718.1.001.2	Enter the WBS element key, to which the WBS BOM is assigned.
Material		Example: 99900	Enter the material number, to which the WBS BOM is assigned.
Plant		Example: 202	Enter the Plant number relevant to the WBS BOM
BOM Usage		Example: F	Enter the usage relevant to the WBS BOM

4. Press Enter and select the material items to copy, and press Copy button.

 Create WBS BOM: Copy From

Menu

WBS Element Material - New Grid - F11

Material

PMU-GSC BOM HEADER MATERIAL

Plant

BOM items

☐	Item	ICt	...	Component	Component descr...	Quantity	Un	OD	Asm	Sls	Valid From	Valid to	Item ID
☐	0010	L	M	10112	Transformer	2	EA		☐	☐	18.04.20...	31.12.99...	00000001
☐	0020	L	M	10123	Meter Wire	5	M		☐	☐	18.04.20...	31.12.99...	00000002

5. Data will be copied from one WBS BOM to another WBS BOM

Menu ▾
Save
Back
Exit
Cancel
System ▾
Select All
Deselect All
Item
Header
Subitems
New Entries
Delete item
Header

WBS Element
PG. 1713-1718.1.001.2
Material - New Grid - F11
Material
99900
PMU-GSC BOM HEADER MATERIAL
Plant
202

Material
Document
General

Item	ICt	Component	Component description	Function ID	Quantity	Un
0010	L	<u>10112</u>	Transformer		2	EA
0020	L	<u>10123</u>	Meter Wire		5	M
0030						

6. Press Save Button.

Result:

WBS BOM has been copied.

1.1.2 Create Change Number

Use

Following steps are followed during creation of ECR Number for recording WBS BOM changings.

Procedure

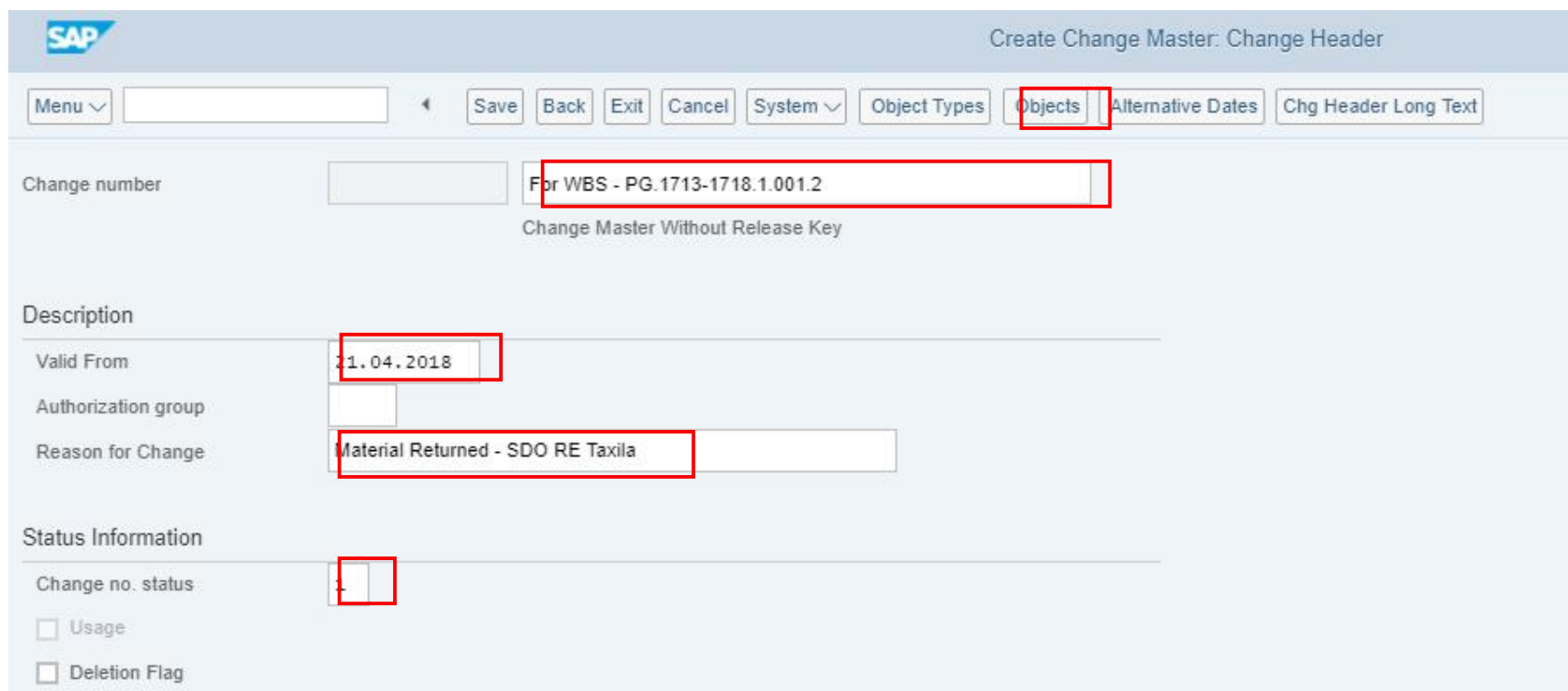
1. Open "Create Change Master" App, From Fiori Launchpad.

The screenshot displays the 'Create Change Master: Initial Screen' in SAP. The interface includes a top navigation bar with the SAP logo and the title 'Create Change Master: Initial Screen'. Below the navigation bar, there is a menu bar with a 'Menu' dropdown, a search field, and buttons for 'Back', 'Exit', 'System', and 'Number Range'. The main content area is divided into several sections: 'Change Number' with an input field, 'Function' with four radio button options ('Without Release Key' is selected), 'Control' with 'Effectivity Type' and 'Profile' fields, and 'Template' with a 'Change Number' field. The 'Profile' field contains the value 'Z0000001', which is highlighted with a red rectangular box.

2. Update the following required and optional fields:

Field name	Description	User action and values	Comments
Profile		Example: Z0000001	Profile identification that contains default values and pre settings for the creation of a change master record

3. Press Enter



The screenshot shows the SAP 'Create Change Master: Change Header' form. The 'Objects' tab is selected. The 'Change number' field is populated with 'For WBS - PG.1713-1718.1.001.2'. The 'Description' section shows 'Valid From' as '21.04.2018' and 'Reason for Change' as 'Material Returned - SDO RE Taxila'. The 'Status Information' section shows 'Change no. status' as '1'. The 'Deletion Flag' is unchecked.

Form Fields and Values:

- Change number:** For WBS - PG.1713-1718.1.001.2
- Description:**
 - Valid From: 21.04.2018
 - Reason for Change: Material Returned - SDO RE Taxila
- Status Information:**
 - Change no. status: 1
 - Deletion Flag: ☐

4. Update the following required and optional fields

Field name	Description	User action and values	Comments
Change Number Description		Example: For WBS – PG.1713-1718.1.001.2 Reconcile Material for HO/TO and A90 process (This case will not be transferred to project)	Text that describes the change number.
Valid From		Example: 21.04.2018	Enter the start of the validity period of the change number. Changes will not be effective before this date
Reason For Change		Example: Material Returned / Material Revised	General information about the reason for change.
Status of change number		Example: 01 - Active	Active / Not active for Changes

5. Click Objects button

Objects

SAP Create Change Master: WBS BOM: Overview

Menu Save Back Exit Cancel System Change Header Object Types Alternative Dates

Change number For WBS PG.1713-1718.1.001.2
Change Master Without Release Key

WBS BOM

WBS element	Material	PInt	BOM Usq	Description
PG.1713-1718.1.001.2	99900	202	F	For Material Comparison

6. Update the following required and optional fields:

Field name	Description	User action and values	Comments
WBS Element		Example: PG.1713-1718.1.001.2	Enter the WBS element key, to which the WBS BOM is assigned.
Material		Example: 99900	Enter the material number, to which the WBS BOM is assigned.
Plant		Example: 202	Enter the Plant number relevant to the WBS BOM
BOM Usage		Example: F	Enter the usage relevant to the WBS BOM
Description		Example: For Material Comparison	Description of the change that is made to a WBS BOM

7. Click SAVE button

Result:

Engineering Change number has been generated, and it will be used to change WBS BOM s that change record can be available for comparison purpose.

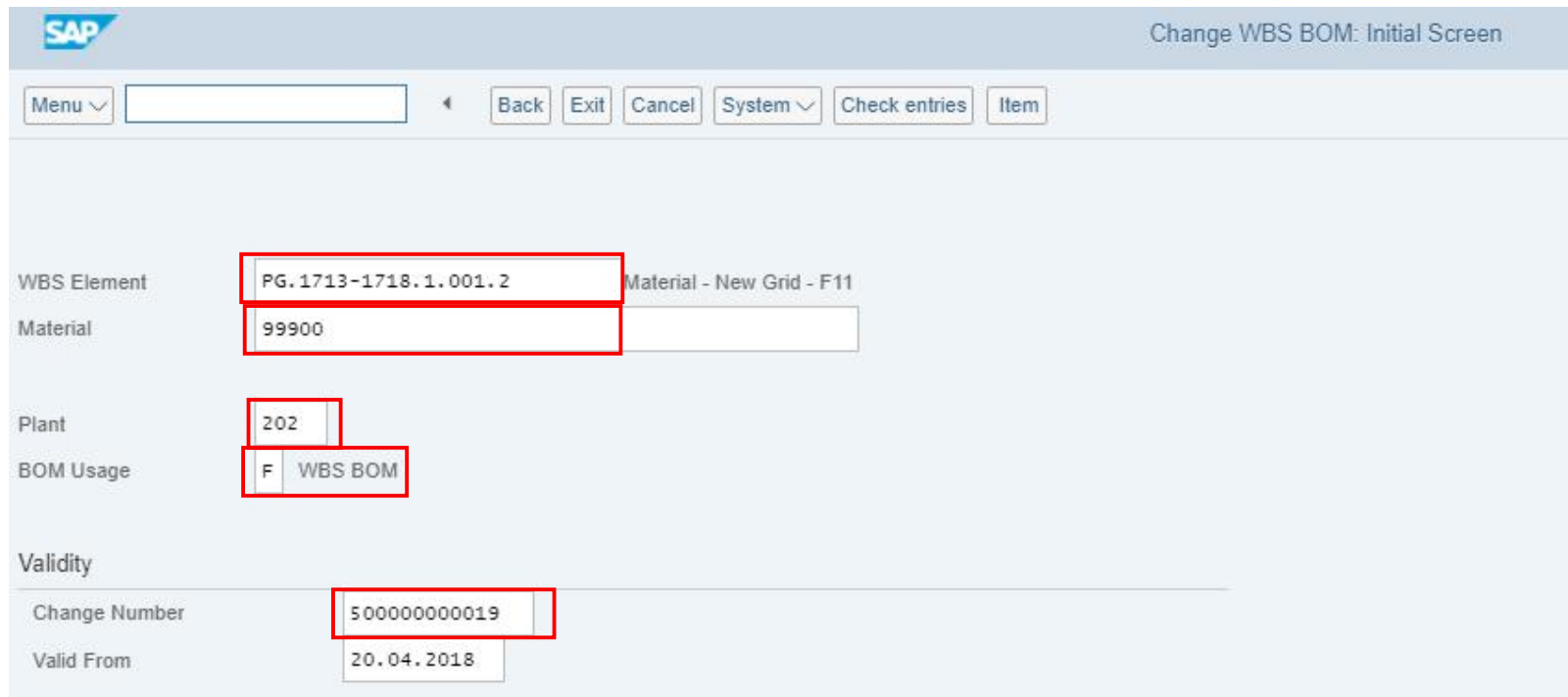
1.1.3 Change WBS BOM

Use

Following steps are followed during Changing WBS BOM, it will only be used for comparison purpose.

Procedure

1. Open “Change WBS BOM” App, from Fiori Launchpad.



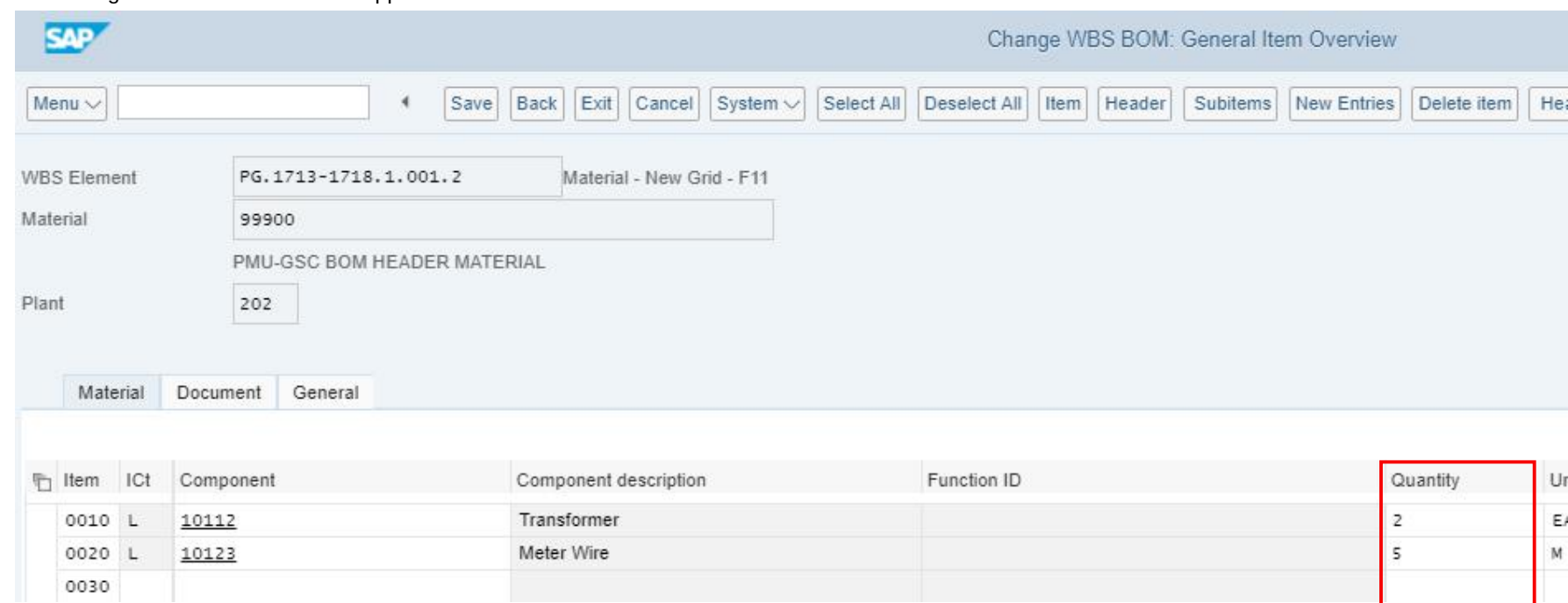
The screenshot shows the SAP Fiori app 'Change WBS BOM: Initial Screen'. The interface includes a top bar with the SAP logo and the title 'Change WBS BOM: Initial Screen'. Below the bar is a navigation area with a 'Menu' dropdown, a search field, and buttons for 'Back', 'Exit', 'Cancel', 'System', 'Check entries', and 'Item'. The main area contains several input fields for WBS Element, Material, Plant, BOM Usage, Validity, Change Number, and Valid From. The WBS Element field is populated with 'PG.1713-1718.1.001.2' and has a 'Material - New Grid - F11' button next to it. The Material field is populated with '99900'. The Plant field is populated with '202'. The BOM Usage field is populated with 'F' and 'WBS BOM'. The Validity section is empty. The Change Number field is populated with '500000000019'. The Valid From field is populated with '20.04.2018'. Red boxes highlight the WBS Element, Material, Plant, BOM Usage, Change Number, and Valid From fields.

WBS Element	PG.1713-1718.1.001.2	Material - New Grid - F11
Material	99900	
Plant	202	
BOM Usage	F	WBS BOM
Validity		
Change Number	500000000019	
Valid From	20.04.2018	

2. Update the following required and optional fields:

Field name	Description	User action and values	Comments
WBS Element		Example: PG.1713-1718.1.001.2	WBSE for which you want to create WBS BOM
Material		Example: 99900	Header material for which you want to create the WBS BOM
Plant		Example: 202	A place where materials are produced, or goods and services are provided
BOM Usage		Example: F	This key defines the area (such as engineering/design or production) where a BOM can be used
Change Number		Example: 500000000019	Number used to uniquely identify a change master record.

3. Change WBS BOM Screen will appear



The screenshot shows the SAP 'Change WBS BOM: General Item Overview' screen. The top bar includes the SAP logo and the title. Below the title is a menu bar with buttons: Menu, Save, Back, Exit, Cancel, System, Select All, Deselect All, Item, Header, Subitems, New Entries, Delete item, and Help. The main area contains input fields for WBS Element (PG.1713-1718.1.001.2), Material (99900), and Plant (202). Below these fields is a tabbed interface with 'Material', 'Document', and 'General' tabs. The 'Material' tab is active, showing a table with columns: Item, ICt, Component, Component description, Function ID, Quantity, and Unit. The table contains three rows: 0010 L 10112 Transformer, 0020 L 10123 Meter Wire, and 0030. The 'Quantity' column is highlighted with a red box.

Item	ICt	Component	Component description	Function ID	Quantity	Unit
0010	L	10112	Transformer		2	EA
0020	L	10123	Meter Wire		5	M
0030						

4. Adjust the quantity of material whose estimate is revised

Menu ▾ Save Back Exit Cancel System ▾ Select All Deselect All Item Header Subitems New Entries Delete

WBS Element PG. 1713-1718.1.001.2 Material - New Grid - F11

Material 99900

PMU-GSC BOM HEADER MATERIAL

Plant 202

Material Document General

Item	ICt	Component	Component description	Function ID	Quantity	Un	OD	Asm	Sls	Valid From	Valid to	Change No.
0010	L	<u>10112</u>	Transformer		1	EA		☐	☐	21.04.20...	31.12.99...	500000000019
0020	L	<u>10123</u>	Meter Wire		5	M		☐	☐	20.04.20...	31.12.99...	
0030								☐	☐			

5. Update the following required and optional fields:

Field name	Description	User action and values	Comments
Component for item 0010		Example: 10112	Material number of the components that you enter, as part of the WBS BOM.
Quantity for item 0010		Example: 1 from 2	Quantity of the BOM component

6. Press Enter or click Save Button

Result:

WBS BOM has been changed.

Note:

- Transfer this changed WBS BOM to the operative project (Refer to the training manual Detailed Planning Procurement – Transfer WBS BOM)

1.1.4 BOM Comparison

Use

Following steps are followed during the WBS BOM Comparison (if required).

Procedure

1. Open "BOM Comparison" App, From Fiori Launchpad.
2. Select go to choose Primary BOM Category and press Project option

The screenshot displays the SAP BOM Comparison: Initial Screen (One-Level). The interface includes a top navigation bar with the SAP logo and the title "BOM Comparison: Initial Screen (One-Level)". Below the title is a menu bar with buttons: Menu, Back, Exit, Cancel, System, Summarized Comparison, Differentiated Comparison, Multilevel Comparison, and Further Settings. The main area is divided into two sections: "Primary BOM" and "Secondary BOM". The "Primary BOM" section contains fields for Material, Plant, Alternative, and a date field (20.04.2018). The "Secondary BOM" section contains fields for Material, Document, Equipment, Functional Location, Production Order, Sales Order, and a quantity field (qty). A red box highlights the "Goto" option in the "Menu" dropdown. Another red box highlights the "Primary BOM Category" option in the "Goto" dropdown. A third red box highlights the "Project" option in the "Primary BOM Category" dropdown.

3. Select go to choose Secondary BOM Category and press Project option

The screenshot displays the 'Secondary BOM' configuration interface. The 'Menu' dropdown is open, showing 'Goto' selected. The 'Goto' submenu is also open, showing 'Secondary BOM Category' selected. The 'Secondary BOM Category' submenu is open, showing 'Project' selected. The background shows the 'Secondary BOM' form with fields for Material, Plant, Alternative, Usage, and various dates and quantities.

Secondary BOM	
Material	
Plant	202
Alternative	
Usage	F
Material	
Document	20.04.2018
Equipment	
Functional Location	
Production Order	
Sales Order	
Project	

4. Fields will be adjusted according to WBS BOM for comparison data.

Menu ▾ Back Exit Cancel System ▾ Summarized Comparison Differentiated Comparison Multilevel Comparison Further Settings

Primary BOM

WBS Element PG.1713-1718.1.001.2 Q

Material 99900

Plant 202

Usage F

Valid From 21.04.2018

Change number 500000000019

Revision level

Required qty

Secondary BOM

WBS Element PG.1713-1718.1.001.2

Material 99900

Plant 202

Usage F

Valid From 20.04.2018

Change number

Revision level

Required qty

5. Update the following required and optional fields:

Field name	Description	User action and values	Comments
WBSE Element(primary BOM)		Example: PG.1713-1718.1.001.2	Enter the WBSE relevant to the primary BOM.
Material (primary BOM)		Example: 99900	Enter the BOM header material number relevant to the primary BOM.
Plant		Example: 202	A place where materials are produced, or goods and services are provided
BOM Usage		Example: F	This key defines the area (such as engineering/design or production) where a BOM can be used
Valid From(Primary BOM)		Example: 21.04.2018	Enter the validity date relevant to the primary BOM.

Change Number (secondary BOM)		Example: 5000000000014	Enter the change number relevant to the secondary BOM.
WBS Element (secondary BOM)		Example: PT.1505-1617.1.001.2	Enter the WBSE relevant to the secondary BOM.
Material (secondary BOM)		Example: 99900	Enter the BOM header material number relevant to the secondary BOM.
Plant		Example: 202	A place where materials are produced, or goods and services are provided
BOM Usage		Example: F	This key defines the area (such as engineering/design or production) where a BOM can be used

Differentiated Comparison

6. Press Comparison button

SAP

BOM Comparison: Result (Differentiated)

Menu

◀

Back

Exit

Cancel

System

Sort in Ascending Order

Sort in Descending Order

Set Filter

Spreadsheet...

Local File...

Send...

Change I

Primary BOM-WBS BOM					Secondary BOM-WBS BOM				
WBS Element	PG.1713-1718.1.001.2				WBS Element	PG.1713-1718.1			
Material	99900				Material	99900			
Usage:	F				Usage:	F			
Plant:	202				Plant:	202			
Date:	21.04.2018				Date:	20.04.2018			
Change Number	5000000000019								

O...	Component number	Object description	Comp. Qty (CU) 1	Unit	Lv		Comp. Qty (CU) 2	Unit	Lv
	10112	Transformer	1	EA	1		2	EA	1
	10123	Meter Wire	5	M	1		5	M	1

Result:

WBS BOM Comparison report is opened.