SAP CO-Product Costing & Material Ledger

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Costing Methods and Techniques:-

Introduction: - It is necessary to understand the difference between the costing methods and techniques.
Costing methods are those which help a firm to compute the cost of production or services offered by it. On the other hand, costing techniques are those which help a firm to present the data in a particular manner so as to facilitate the decision making as well as cost control and cost reduction.
Costing methods and techniques are explained below.

Methods of Costing: - The following are the methods of costing.

1). Batch Costing: - This method of costing is used in those firms where production is made on continuous basis. Each unit coming out is uniform in all respects and production is made prior to the demand, i.e. in anticipation of demand. One batch of production consists of the units produced from the time machinery is set to the time when it will be shut down for maintenance. For example, if production commences on 1st January 2007 and the machine is shut down for maintenance on 1st April 2007, the number of units produced in this period will be the size of one batch. The total cost incurred during this period will be divided by the number of units produced and unit cost will be worked out. Firms producing consumer goods like television, air-conditioners, washing machines etc use batch costing.

2). Process Costing: - Some of the products like sugar, chemicals etc involve continuous production process and hence process costing method is used to work out the cost of production. The meaning of continuous process is that the input introduced in the process I travels through continuous process before finished product is produced. The output of process I becomes input of process II and the output of process II becomes input of the process III. If there is no additional process, the output of process III will be the finished product. In process costing, cost per process is worked out and per unit cost is worked out by dividing the total cost by the number of units. Industries like sugar, edible oil, chemicals are examples of continuous production process and use process costing.

3). Job Costing: - This method is also called as job costing. This costing method is used in firms which work on the basis of job work. There are some manufacturing units which undertake job work and are called as job order units. The main feature of these organizations is that they produce according to the requirements and specifications of the consumers. Each job may be different from the other one. Production is only on specific order and there is no pre demand production. Because of this situation, it is necessary to compute the cost of each job and hence job costing system is used. In this system, each job is treated separately and a job cost sheet is prepared to find out the cost of the job.

The job cost sheet helps to compute the cost of the job in a phased manner and finally arrives the total cost of production.

Technique of Costing: - As mentioned above, costing methods are for computation of the total cost of production/services offered by a firm. On the other hand, costing technique help to present the data in a particular format so that decision making becomes easy. Costing techniques also help for controlling and reducing the costs. The following are the techniques of costing.

1).Standard costing: - Standard costs are predetermined costs relating to material, labor and overheads.
Though they are predetermined, they are worked out on scientific basis by conducting technical analysis. They are computed for all elements of costs such as material, labor and overheads. The main objective of fixation of standard cost is to have benchmark against which the actual performance can be compared. This means that the actual costs are compared with the standards. The difference is called as 'variance'. If actual costs are more than the standard, the variance is 'adverse' while if actual costs are less than the standard, the variance is 'favorable'. The adverse variances are analyzed and reasons for the same are found out. Favorable variances may also be analyzed to find out the reasons behind the same.

Standard costing, thus is an important technique for cost control and reduction.

2).Marginal costing: - This technique is based on the assumption that the total cost of production can be divided into fixed and variable. Fixed costs remain same irrespective of the changes in the volume of production while the variable costs vary with the level of production, i.e. they will increase if the production increases and decrease if the production decreases. Variable cost per unit always remains the same. In this technique, only variable costs are taken into account while calculating production cost. Fixed costs are not absorbed in the production Units. They are written off to the Costing Profit and Loss Account. The reason behind this is that the fixed costs are period costs and hence should not be absorbed in the production.
Secondly they are variable on per unit basis and hence there is no equitable basis for charging them to the products. This technique is effectively used for decision making in the areas like make or buy decisions, optimizing of product mix, key factor analysis, fixation of selling price, accepting or rejecting an export offer, and several other areas.

3).Actual costing: - In an actual costing system, no predetermined or estimated or standard costs are used. Instead, the actual direct labor and materials costs and the actual manufacturing overhead costs are allocated to the units produced. The cost of a unit is the actual direct cost rates multiplied by the actual quantities of the direct cost inputs used and the actual indirect (overhead) cost rates multiplied by the actual quantities used of the cost allocation bases.
Actual costing is practical only for job order costing for the same reasons that normal and extended normal costing are practical only for job order costing. In addition, actual costing is seldom used because it can produce costs per unit that fluctuate significantly. This fluctuation can lead to errors in management decisions such a pricing of the product, decisions about adding or dropping product lines, and performance evaluations.

Cost Sheet

Cost Sheet is a statement of cost showing the total cost of production and profit or loss from particular product or service. A Cost Sheet shows the cost in a systematic manner and element wise.

Classification of Costs

1).Direct Material: Direct materials are the materials that are directly put into the finished product. The costs included in the direct material cost are all of the costs associated with acquiring it: the item itself, shipping-in, insurance and taxes, among others.

Examples of direct materials are Raw Materials, Packing Material and Processing Materials (SFG).

2).Direct Labor: Direct labor can be identified with a given unit of product, for example, when wages are paid according to the piece rate, wages per unit can be identified. Similarly wages paid to workers who are directly engaged in the production can also be identified and hence they are direct wages.

3).Direct Expense: Direct expenses refers to expenses that are specifically incurred and charged for specific or particular job, process, service, cost center or cost unit. These expenses are also called as chargeable expenses.

Examples of these expenses are cost of drawing, design and layout, royalties payable on use of patents, copyrights etc, consultation fees paid to architects, surveyors etc.

4).Indirect Material: Indirect materials are materials that are not the main components of the finished goods. Examples are glue, screws and nails and other materials that may not even be physically incorporated into the finished good (machine oils, lubricants, and miscellaneous supplies). Indirect materials are a manufacturing overhead cost.

5).Indirect Labor: Indirect labor is the labor that is part of the overall production process but does not come into direct contact with the product. The maintenance department is a common example. Indirect labor is a manufacturing overhead cost.

Examples: wages paid to workers like sweepers, gardeners, maintenance workers etc are indirect wages as they cannot be identified with the given unit of production.

6).Indirect Expenses: Indirect expenses cannot be traced to specific product, job, process, service or cost center or cost unit. Several examples of indirect expenses can be given like insurance, electricity, rent, salaries, advertising etc. also rework costs, electricity and other utilities, depreciation of plant equipment, and factory rent.

Cost Sheet

Particulars	Amount
A. Direct Materials Raw Materials, Packing materials,SFG if any procurement)	
B. Direct Labor/Wages	
C. Direct Expenses (P&M,Buliding for Rent,Royalties,Payable on use of patents etc.,	
I. Prime Cost (A + B + C)	
D. Factory Overheads- Indirect (Materials,Labour & Expenses)	
Loose Tools-Indirect Material	
Indirect wages- Indirect Labor	
Rent and Rates (Factory)- Indirect Expenses	
Lighting and heating (F)- Indirect Expenses	
Power and fuel- Indirect Expenses	
Repairs and Maintenance- Indirect Expenses	
Research and experiment- Indirect Expenses	
Depreciation – Plant (F)- Indirect Expenses	
Insurance – (F)- Indirect Expenses	
Work Manager's salary- Indirect Expenses	
II. Factory Cost/Works Cost /COGM(I + D)	

Mapping Costing Methods and Techniques into SAP

Functional	SAP
Methods of Costing	
Standard Costing	Product Costing
Marginal Costing	CO-PA
Actual Costing	Material Ledger
Technique of Costing	
Batch Costing	Product Cost By Order 1). Without PP module implementation 2). With PP module implementation
Process Costing	Product Cost By Period 3). Without Reporting Points Consideration 4). With Reporting Points Considerations 5).Decoupling Scenario
Job Costing	Product Cost By Sales Order 6). Without Sales Oder Controlling - Vaulted Stock 7).With Sales Order Controlling - Vaulted Stock 8).With Sales Order Controlling - Non Vaulted
Joint Production	9).By-Product Costing 10).Co-Product Costing
Mixed Costing Process	11).Multiple Procurements for RAW Materials 12).Purchasing& Manufacturing Process for SFG Materials 13).Multiple Manufacturing Process for FG Materials - without Split Valuation 14).Multiple Manufacturing Process for FG Materials - with Split Valuation
Cross Plant Costing	15).Special Procurement Costing process
Additives Costing	16).Additives Costing

Mapping Cost elements into SAP

Functional	SAP
E. Direct Materials Raw Materials, Packing materials,SFG if any procurement)	BOM
F. Direct Labor/Wages	Routing
G. Direct Expenses (Royalties, Payable on use of patents etc.,	Template Allocation
III. Prime Cost (E + F + G)	
H. Factory Overheads- Indirect (Materials,Labour & Expenses)	
Loose Tools-Indirect Material	Template Allocation
Indirect wages- Indirect Labor	Template Allocation
Lighting and heating (F)- Indirect Expenses	Routing
Power and fuel- Indirect Expenses	Routing
Repairs and Maintenance- Indirect Expenses	Routing/Template Allocation
Depreciation – Plant (F)- Indirect Expenses	Routing
Insurance – (F)- Indirect Expenses	Routing/Template Allocation
Research and Experiment- Indirect Expenses	Costing Sheet
Quality Control-Indirect Expenses	Costing Sheet
Work Manager’s salary- Indirect Expenses	Template Allocation
IV. Factory Cost/Works Cost /COGM(III + H)	

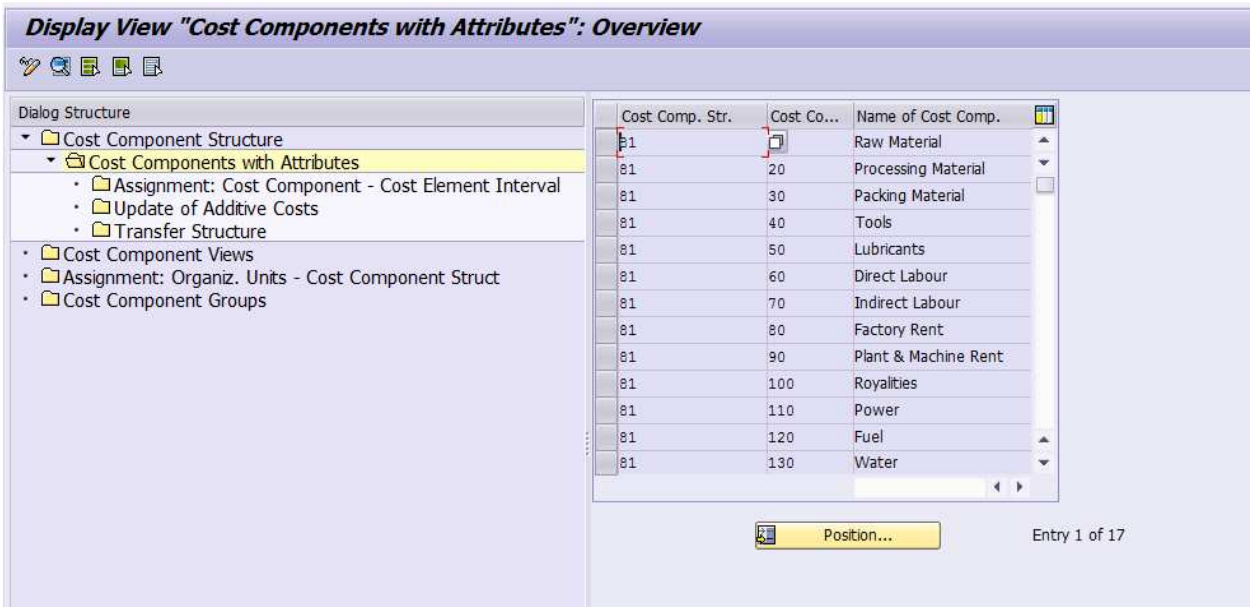
Batch Management

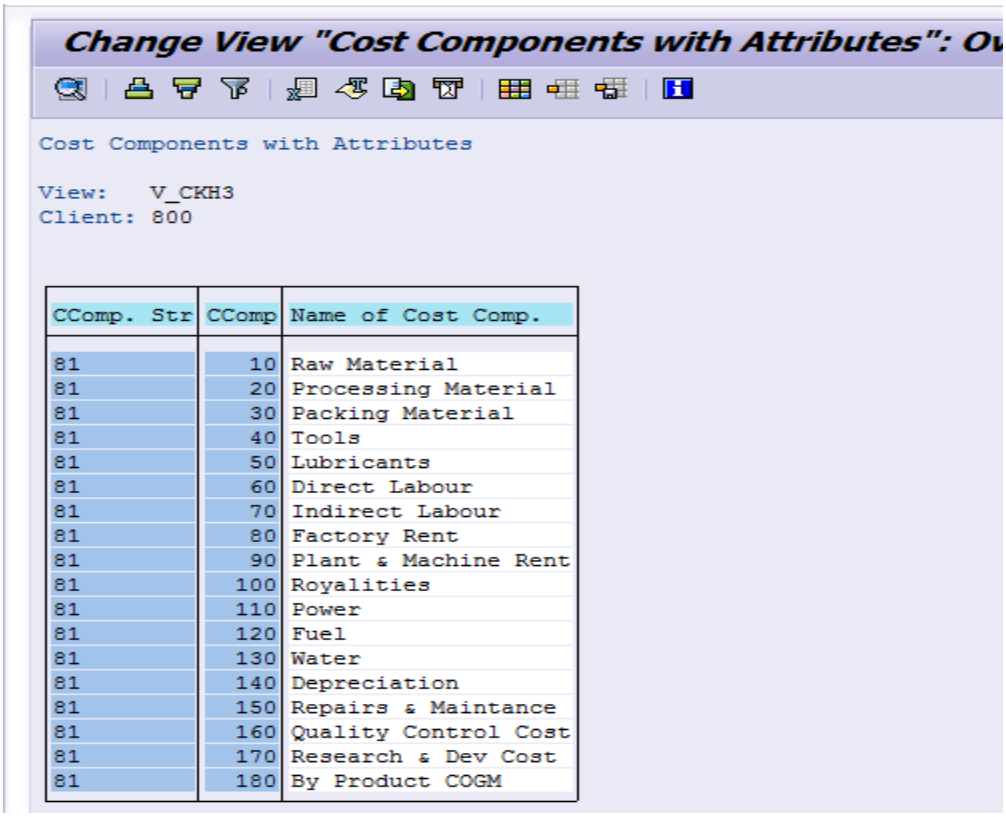
Product Cost by Order

1). With PP module implementation

Product Costing Basic Configuration Settings

Define Cost Component Structure-OKTZ





CComp. Str	CComp	Name of Cost Comp.
81	10	Raw Material
81	20	Processing Material
81	30	Packing Material
81	40	Tools
81	50	Lubricants
81	60	Direct Labour
81	70	Indirect Labour
81	80	Factory Rent
81	90	Plant & Machine Rent
81	100	Royalities
81	110	Power
81	120	Fuel
81	130	Water
81	140	Depreciation
81	150	Repairs & Maintance
81	160	Quality Control Cost
81	170	Research & Dev Cost
81	180	By Product COGM

Here

1).Direct Materials: Raw Material, Processing Material, Packing Material

2).Direct Labor: Direct Labor

3).Direct Expenses: Factory Rent, Plant & Machine Rent, Royalties

4).Indirect Materials: Tools, Lubricants

5).Indirect Labor: Indirect Labor

6).Indirect Expenses: Power, Fuel, Water, Depreciation, and Repairs & Maintenance, Quality Control Cost, Research & Dev Cost

Note:

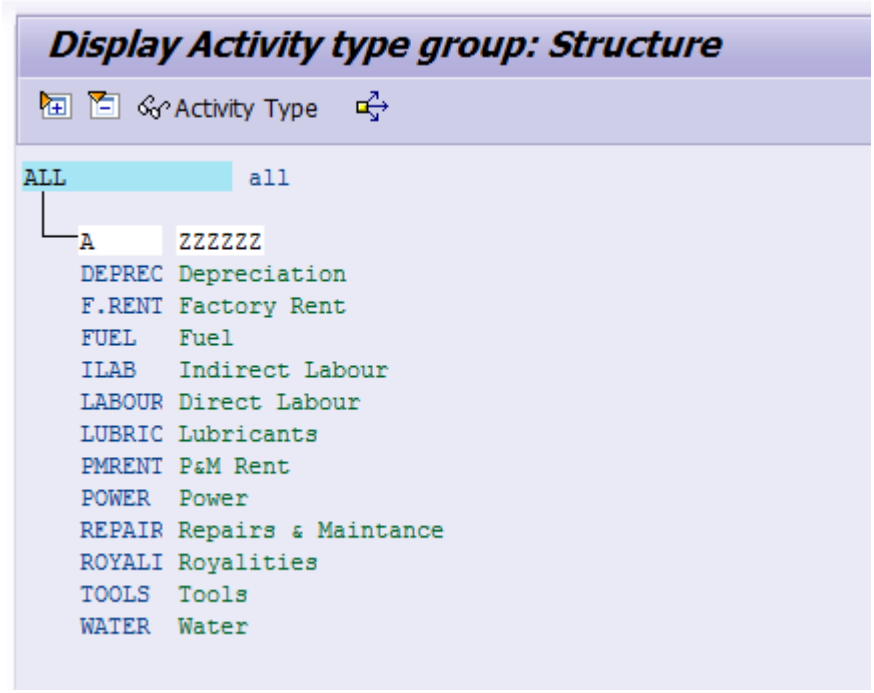
Direct Materials will be maintained in BOM,

Direct Labor and some of the indirect expenses (Utilities- Power, Fuel, Water, and Depreciation) will be in Routing.

Quality Control Cost, Research & Dev Cost through Costing Sheet and

Direct Expenses, Indirect Labor and Repairs & Maintenance through Template allocation.

Activity types:



KP26-Activity Rate Planning

Display Activity Type/Price Planning: Overview Screen

Line items

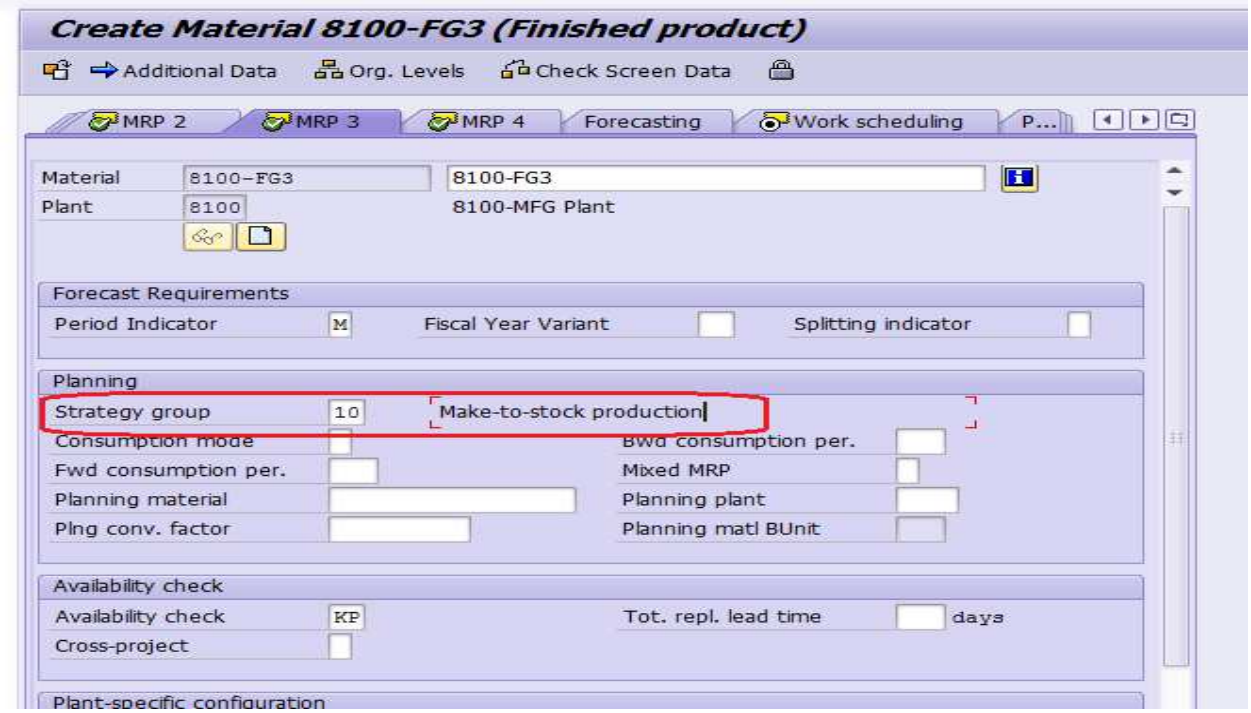
Version	0
Period	6
To	6
Fiscal Year	2016
Cost Center	8100-FG3

Plan/Act - Version

8100-FG3

Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...
DEPREC	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943011
F.RENT	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943005
FUEL	0	1	0	1	KWH	20.00	0.00	00001	1			943009
ILAB	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943004
LABOUR	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943003
LUBRIC	0	1	0	1	KG	20.00	0.00	00001	1			943002
PMRENT	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943006
POWER	0	1	0	1	KWH	15.00	0.00	00001	1			943008
REPAIR	0.0	1	0.0	1	HR	20.00	0.00	00001	1			943012
ROYALI	0	1	0	1	TO	10.00	0.00	00001	1			943007
TOOLS	0	1	0	1	KG	15.00	0.00	00001	1			943001
WATER	0	1	0	1	L	20.00	0.00	00001	1			943010

Creation of Material Master: This is Make to Stock Scenario



Create Material 8100-FG3 (Finished product)

Additional Data | Org. Levels | Check Screen Data

MRP 2 | MRP 3 | MRP 4 | Forecasting | Work scheduling | P...

Material	8100-FG3	8100-FG3
Plant	8100	8100-MFG Plant

Forecast Requirements

Period Indicator: M | Fiscal Year Variant | Splitting indicator

Planning

Strategy group: 10 Make-to-stock production

Consumption mode | Bwd consumption per.

Fwd consumption per. | Mixed MRP

Planning material | Planning plant

Plng conv. factor | Planning matl BUnit

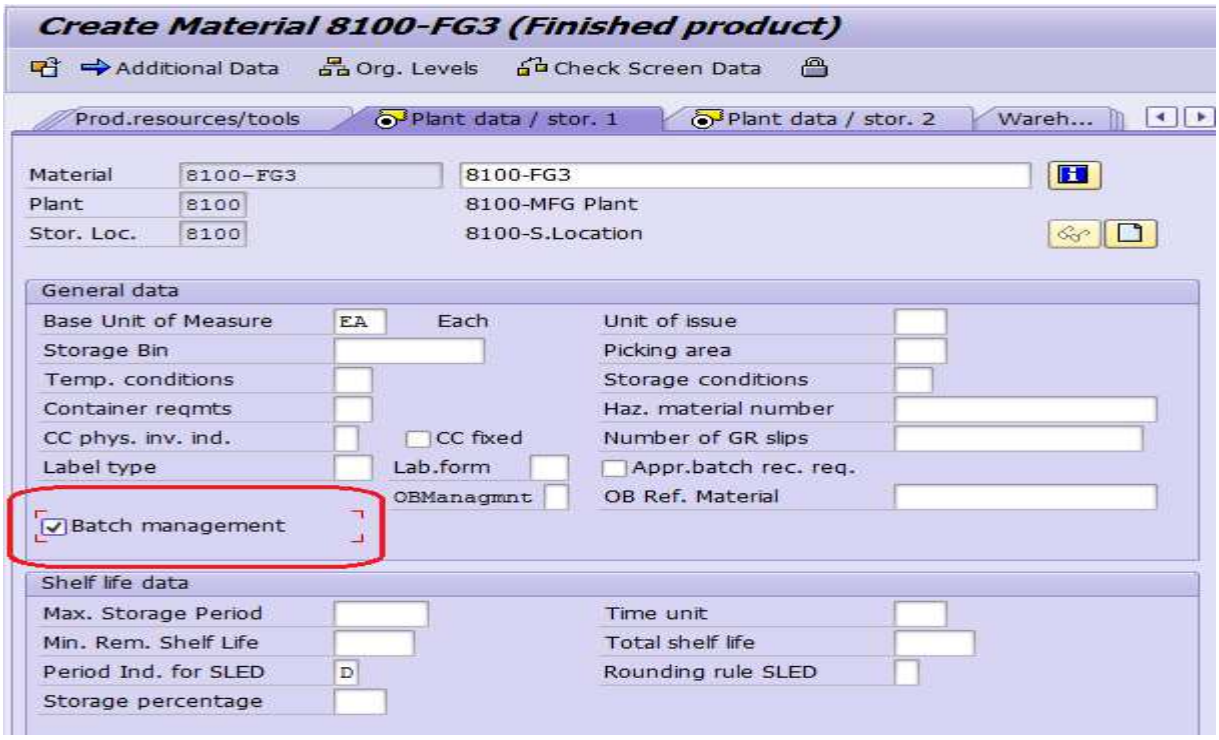
Availability check

Availability check: KP | Tot. repl. lead time | days

Cross-project

Plant-specific configuration

In Material Master, maintained Batch management activation

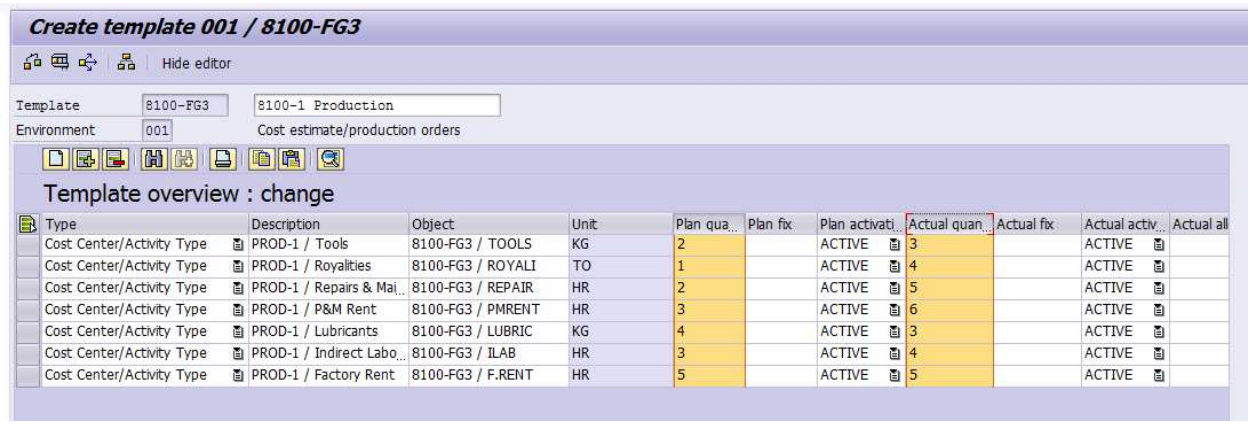


Costing Sheet Preparation:

Normally Research & Development, Quality Control cost will be on Conversion Cost (Production Cost).So these expenses will be through costing sheet as earlier said.

Maintain Templates

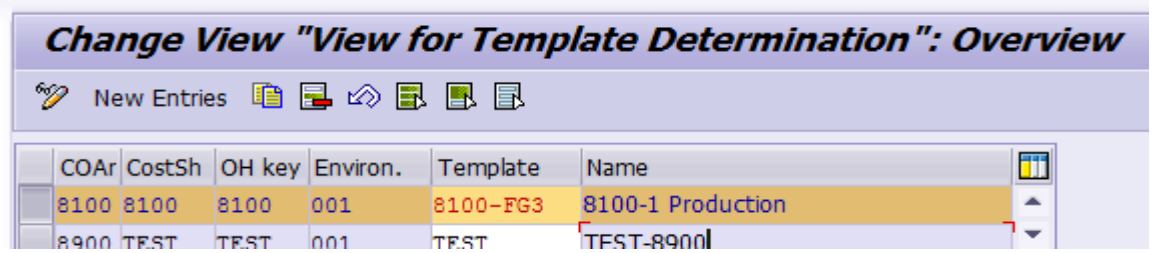
Template allocation For Direct Expenses (Factory Rent, Plant & Machine Rent, Royalties), Indirect Labor and Repairs & Maintenance



Type	Description	Object	Unit	Plan qua...	Plan fix	Plan activati...	Actual quan...	Actual fix	Actual activ...	Actual all
Cost Center/Activity Type	PROD-1 / Tools	8100-FG3 / TOOLS	KG	2		ACTIVE	3		ACTIVE	
Cost Center/Activity Type	PROD-1 / Royalities	8100-FG3 / ROYALI	TO	1		ACTIVE	4		ACTIVE	
Cost Center/Activity Type	PROD-1 / Repairs & Mai...	8100-FG3 / REPAIR	HR	2		ACTIVE	5		ACTIVE	
Cost Center/Activity Type	PROD-1 / P&M Rent	8100-FG3 / PMRENT	HR	3		ACTIVE	6		ACTIVE	
Cost Center/Activity Type	PROD-1 / Lubricants	8100-FG3 / LUBRIC	KG	4		ACTIVE	3		ACTIVE	
Cost Center/Activity Type	PROD-1 / Indirect Labo...	8100-FG3 / ILAB	HR	3		ACTIVE	4		ACTIVE	
Cost Center/Activity Type	PROD-1 / Factory Rent	8100-FG3 / F.RENT	HR	5		ACTIVE	5		ACTIVE	

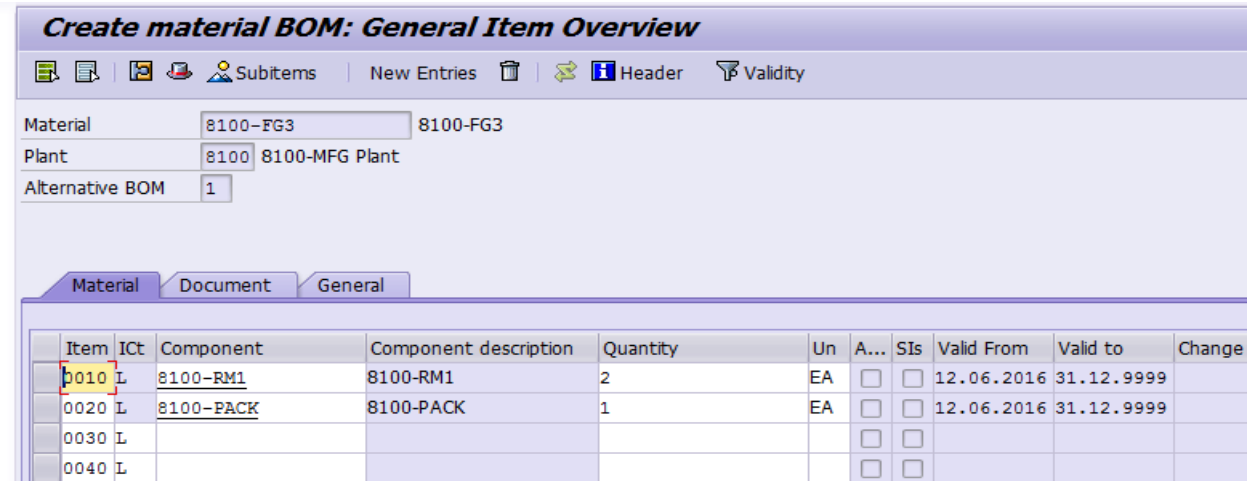
Assign Templates

Create Template allocation assign with Controlling area, Costing Sheet, OH key with Environment.



COAr	CostSh	OH key	Environ.	Template	Name
8100	8100	8100	001	8100-FG3	8100-1 Production
8900	TEST	TEST	001	TEST	TEST-8900

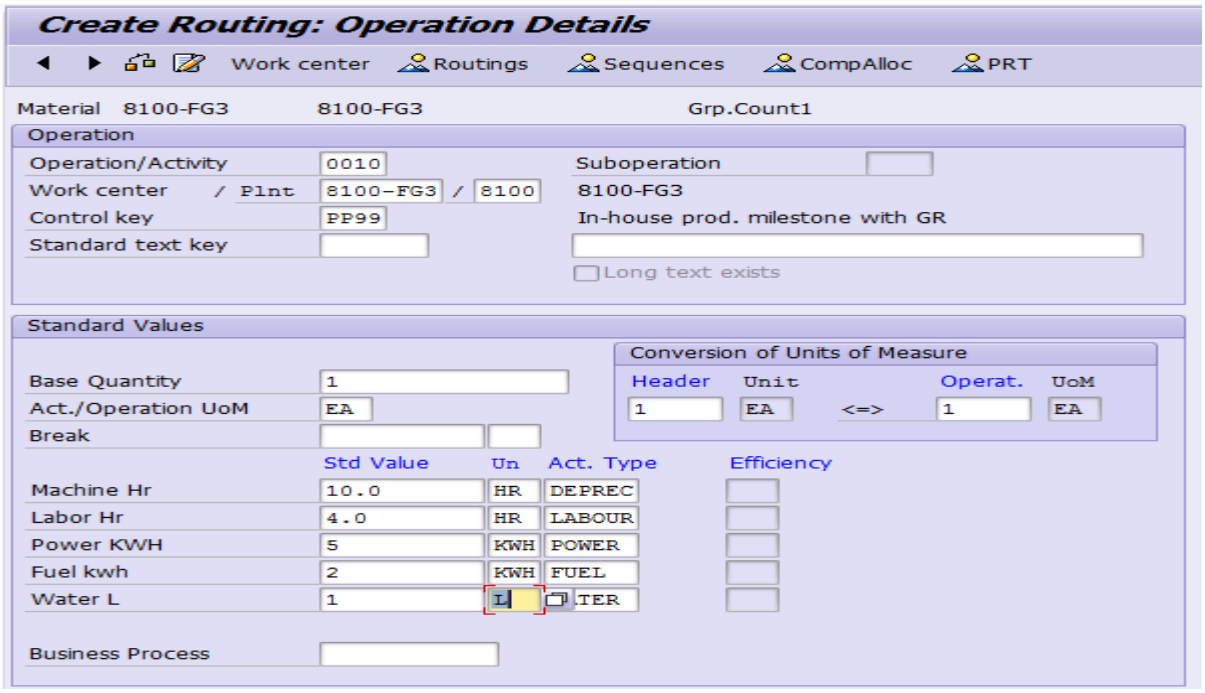
Bill of Material for Direct Materials (Raw Materials and Packing Materials)



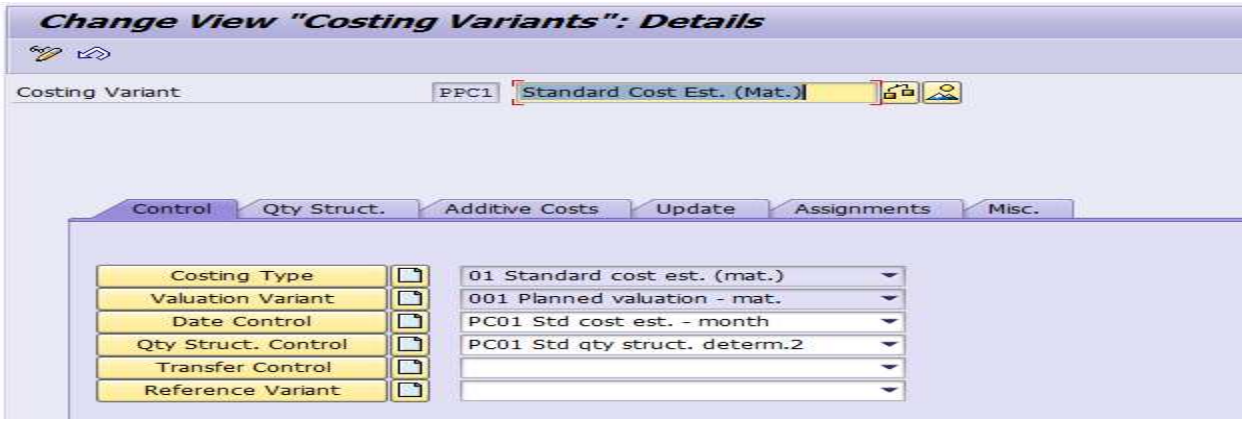
Item	ICt	Component	Component description	Quantity	Un	A...	SIs	Valid From	Valid to	Change
0010	L	8100-RM1	8100-RM1	2	EA			12.06.2016	31.12.9999	
0020	L	8100-PACK	8100-PACK	1	EA			12.06.2016	31.12.9999	
0030	L									
0040	L									

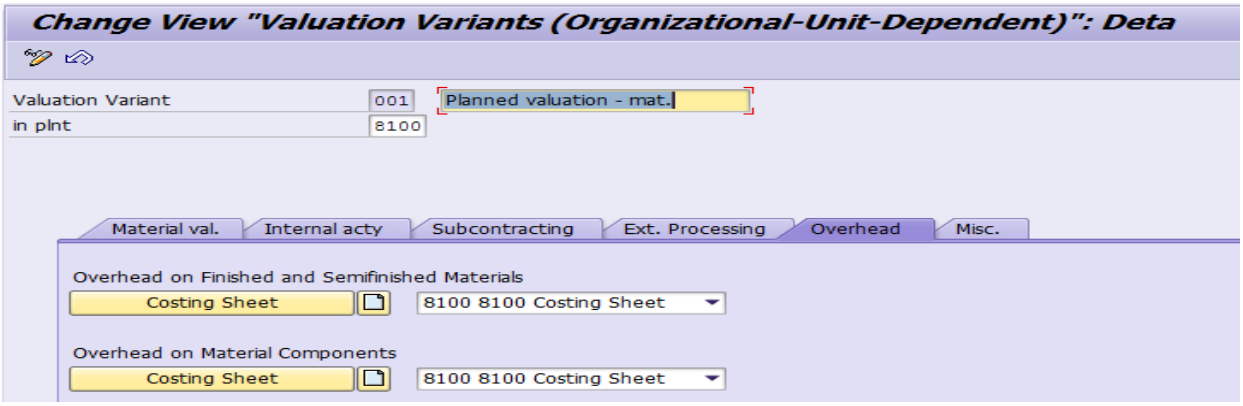
Work Center creation-CS01

Routing Creation for Direct Labor and for Some of the Indirect Expenses (Depreciation, Power, Fuel and Water)



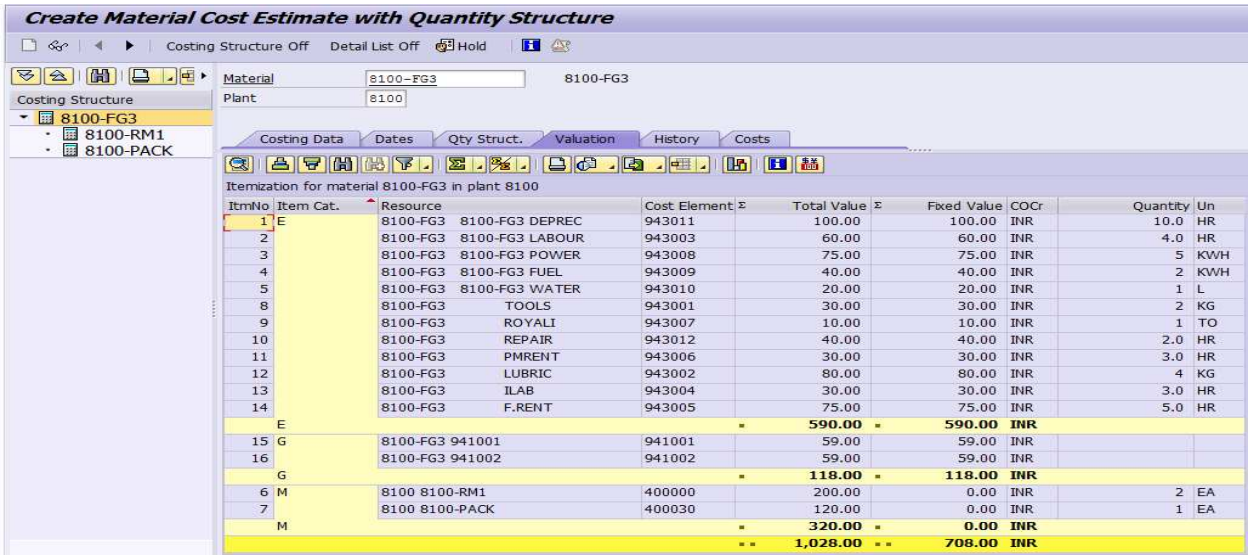
Define Costing Variants and Valuation Variants for Standard Costing calculation





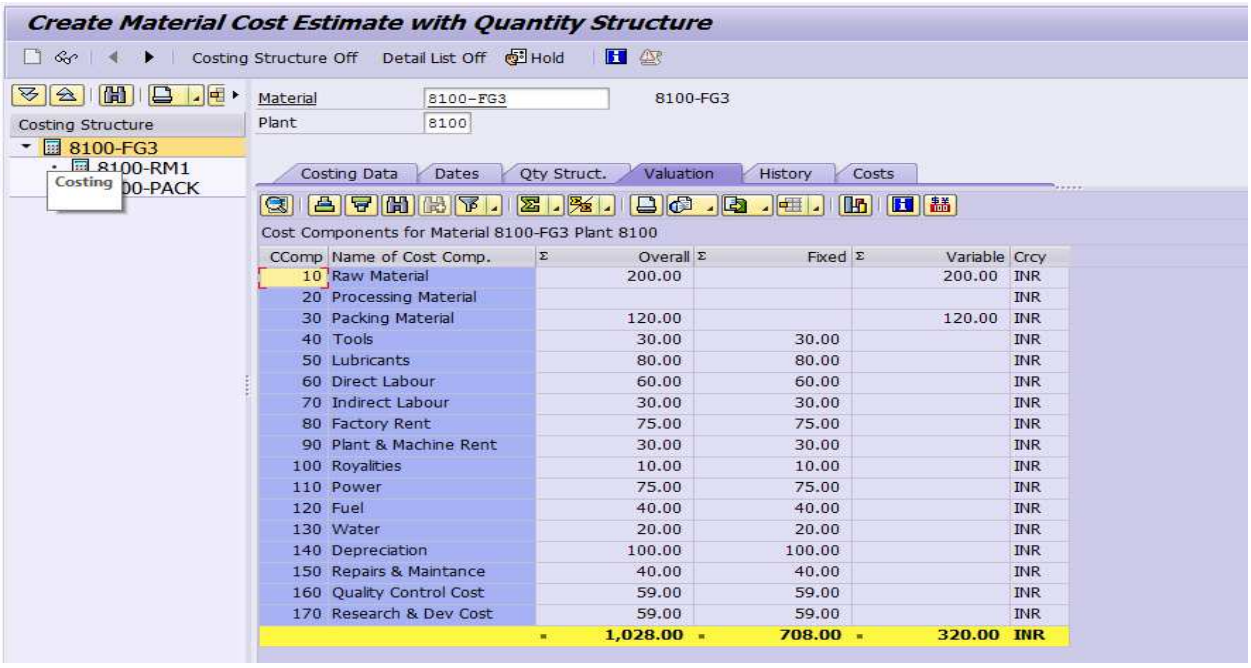
Create Cost estimation with Quantity structure:-CK11N

Itemization wise



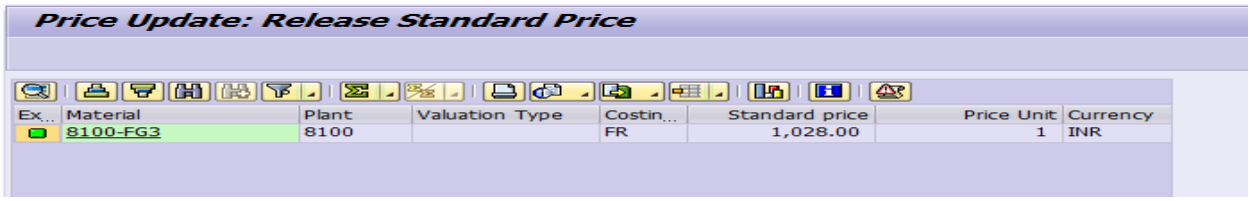
ItmNo	Item Cat.	Resource		Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	E	8100-FG3	8100-FG3 DEPREC	943011	100.00	100.00	INR	10.0	HR
2		8100-FG3	8100-FG3 LABOUR	943003	60.00	60.00	INR	4.0	HR
3		8100-FG3	8100-FG3 POWER	943008	75.00	75.00	INR	5	KWH
4		8100-FG3	8100-FG3 FUEL	943009	40.00	40.00	INR	2	KWH
5		8100-FG3	8100-FG3 WATER	943010	20.00	20.00	INR	1	L
8		8100-FG3	TOOLS	943001	30.00	30.00	INR	2	KG
9		8100-FG3	ROYALI	943007	10.00	10.00	INR	1	TO
10		8100-FG3	REPAIR	943012	40.00	40.00	INR	2.0	HR
11		8100-FG3	PMRENT	943006	30.00	30.00	INR	3.0	HR
12		8100-FG3	LUBRIC	943002	80.00	80.00	INR	4	KG
13		8100-FG3	ILAB	943004	30.00	30.00	INR	3.0	HR
14		8100-FG3	F.RENT	943005	75.00	75.00	INR	5.0	HR
	E				590.00	590.00	INR		
15	G	8100-FG3 941001		941001	59.00	59.00	INR		
16		8100-FG3 941002		941002	59.00	59.00	INR		
	G				118.00	118.00	INR		
6	M	8100 8100-RM1		400000	200.00	0.00	INR	2	EA
7		8100 8100-PACK		400030	120.00	0.00	INR	1	EA
	M				320.00	0.00	INR		
					1,028.00	708.00	INR		

Cost component Wise



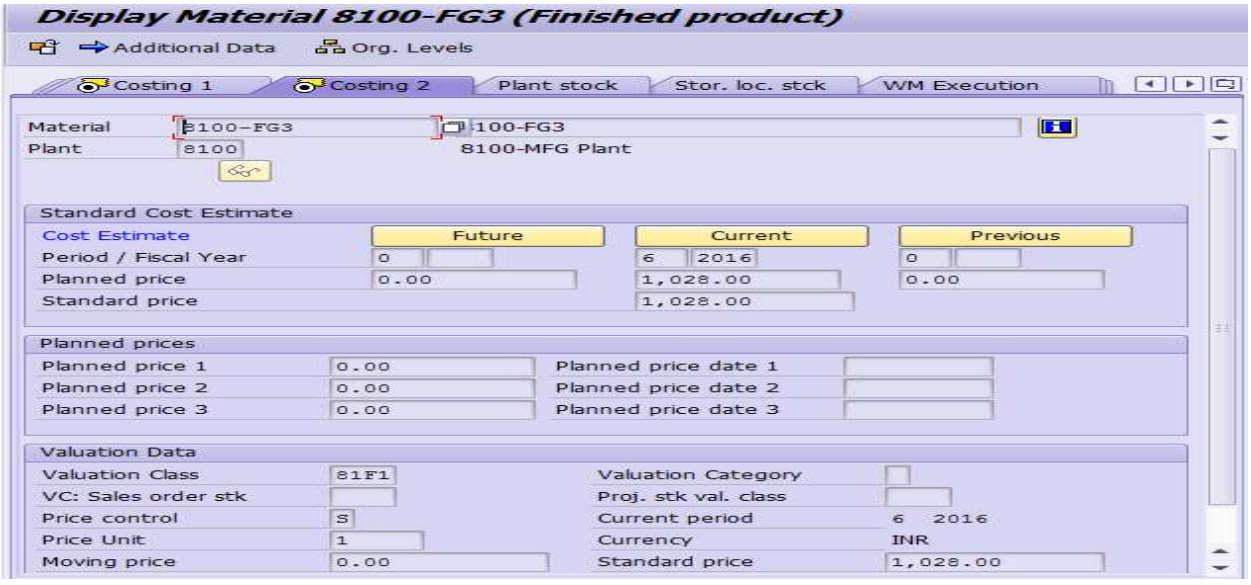
CComp	Name of Cost Comp.	Overall	Fixed	Variable	Crcy
10	Raw Material	200.00		200.00	INR
20	Processing Material				INR
30	Packing Material	120.00		120.00	INR
40	Tools	30.00	30.00		INR
50	Lubricants	80.00	80.00		INR
60	Direct Labour	60.00	60.00		INR
70	Indirect Labour	30.00	30.00		INR
80	Factory Rent	75.00	75.00		INR
90	Plant & Machine Rent	30.00	30.00		INR
100	Royalities	10.00	10.00		INR
110	Power	75.00	75.00		INR
120	Fuel	40.00	40.00		INR
130	Water	20.00	20.00		INR
140	Depreciation	100.00	100.00		INR
150	Repairs & Maintance	40.00	40.00		INR
160	Quality Control Cost	59.00	59.00		INR
170	Research & Dev Cost	59.00	59.00		INR
		1,028.00	708.00	320.00	INR

Marking & Release-CK24



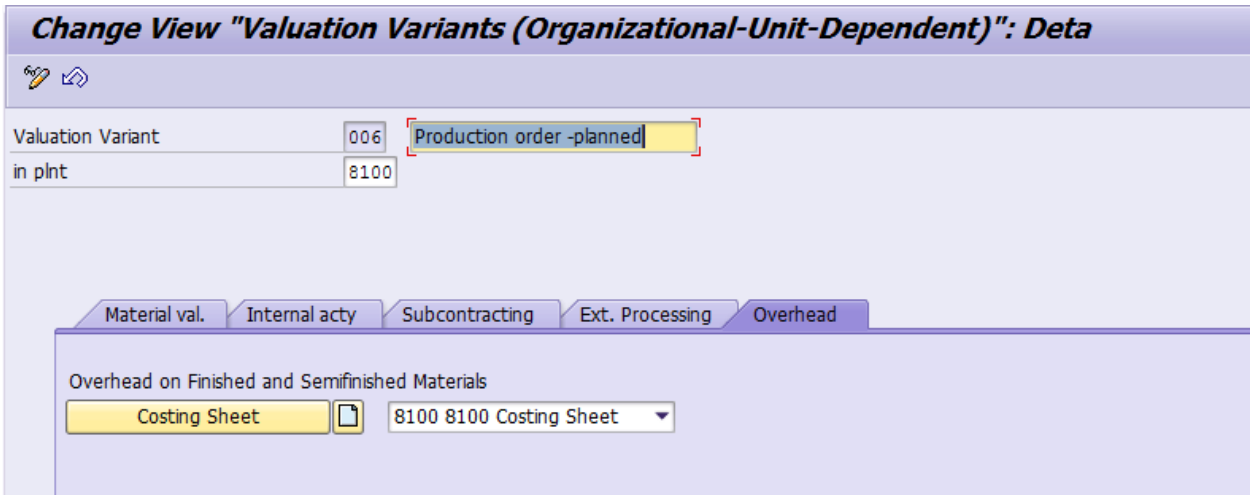
Ex..	Material	Plant	Valuation Type	Costin...	Standard price	Price Unit	Currency
	8100-FG3	8100		FR	1,028.00	1	INR

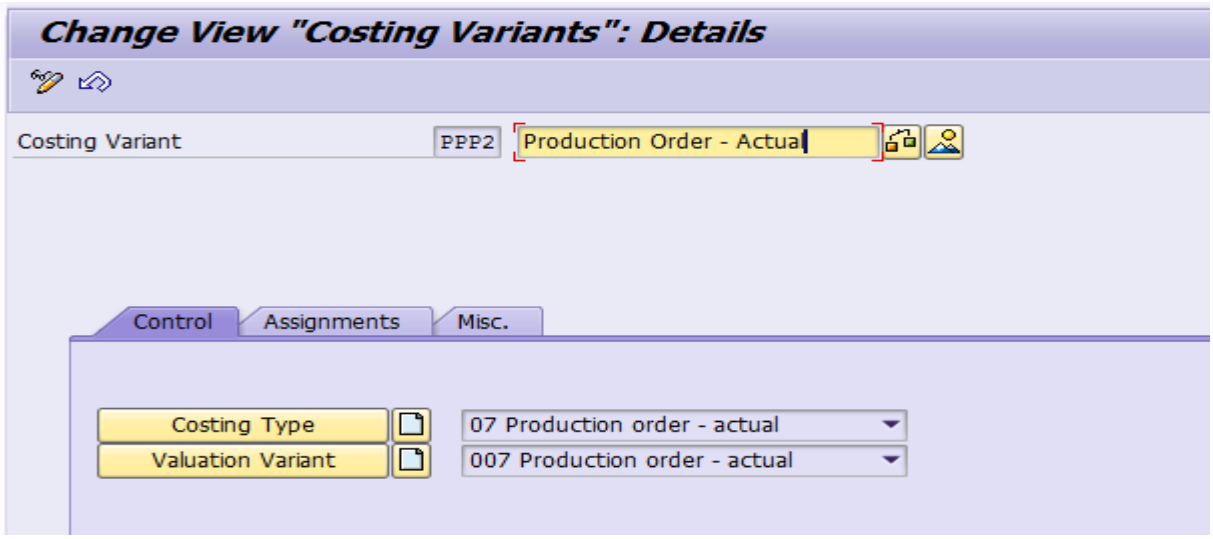
Check in Material Master data-MM03 –Costing 2Tab

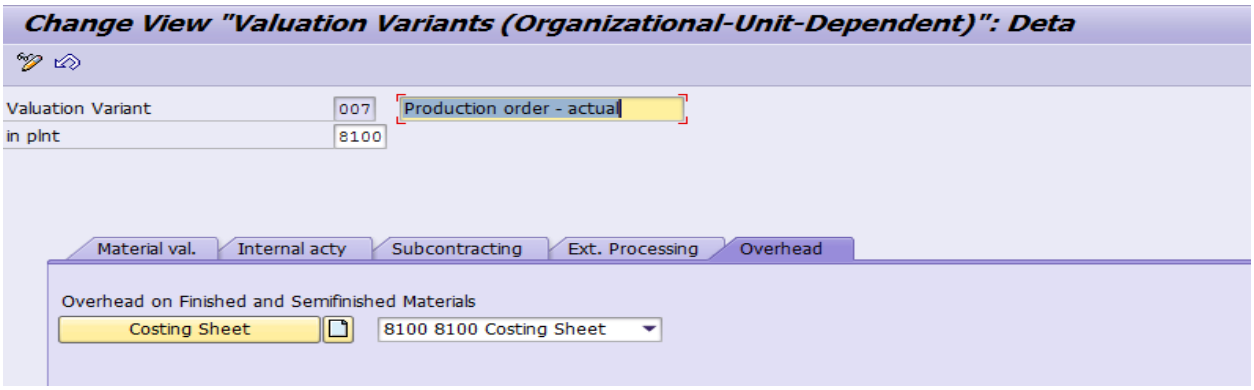


Product Cost by Order scenario

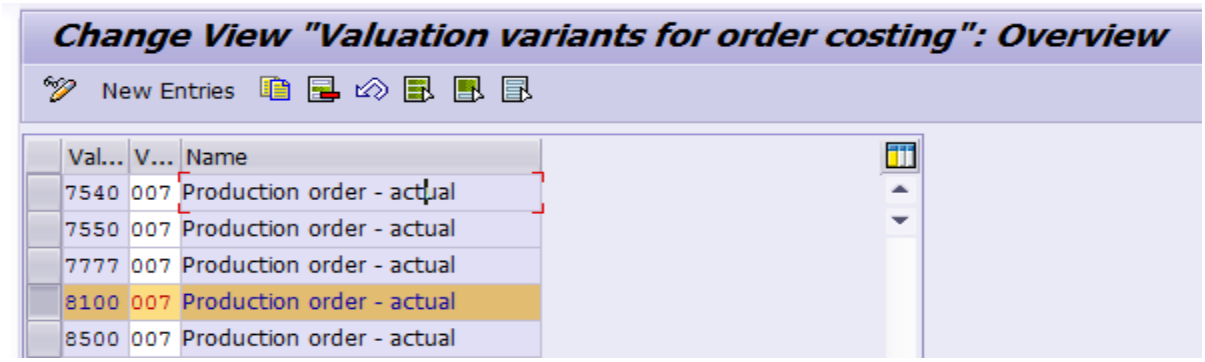
Check Costing Variants and Valuation Variants for Manufacturing Orders (PP)





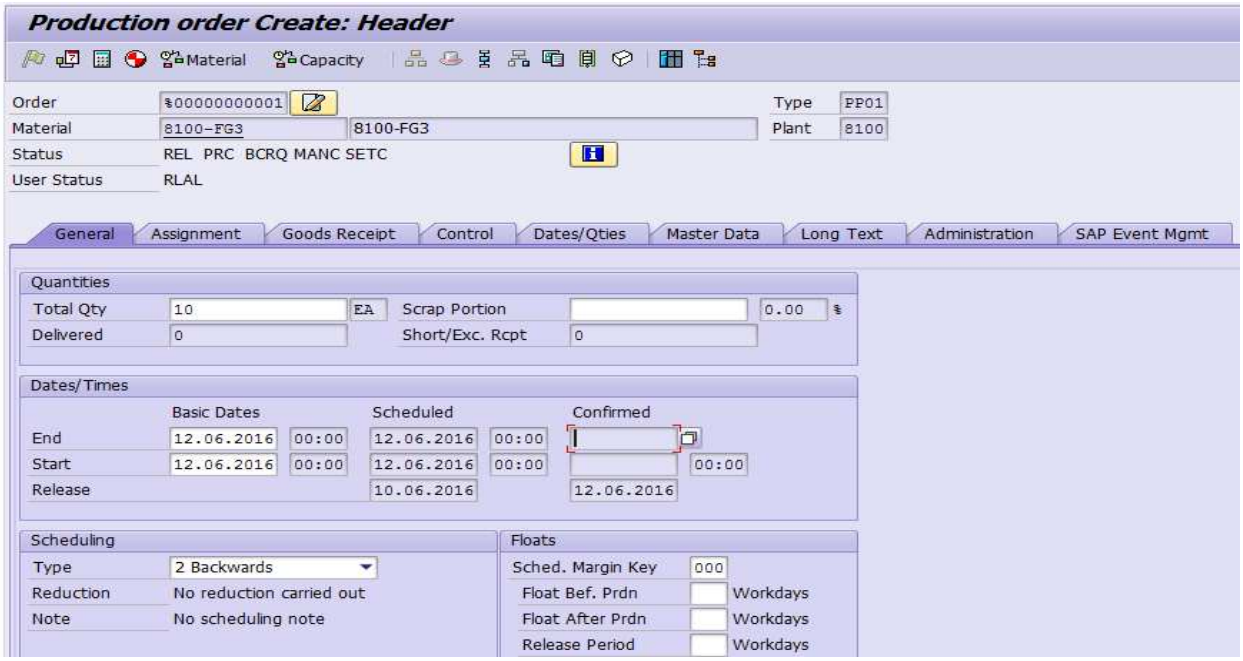


Define Goods Received Valuation for Order Delivery



Now we can do testing For Batch Management Process scenario through Product cost by Order with PP Module (Qty Structure) Implementation.

Production Order Creation



Order 60004054 8100-FG3
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG3 8100-FG3

Planned Quantity 10 EA Each

Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		2,000.00		0.00		2,000.00-	100.00-	INR
	8100/8100-PACK	8100-PACK		1,200.00		0.00		1,200.00-	100.00-	INR
Goods Issues			▪	**3,200.00**	▪	**0.00**	▪	**3,200.00-**		**INR**
Confirmations	8100-FG3/TOO...	8100-FG3 / Tools		30.00		0.00		30.00-	100.00-	INR
	8100-FG3/LUBR...	8100-FG3 / Lubricants		80.00		0.00		80.00-	100.00-	INR
	8100-FG3/LAB...	8100-FG3 / Direct Labour		600.00		0.00		600.00-	100.00-	INR
	8100-FG3/ILAB	8100-FG3 / Indirect Labour		30.00		0.00		30.00-	100.00-	INR
	8100-FG3/F.RE...	8100-FG3 / Factory Rent		75.00		0.00		75.00-	100.00-	INR
	8100-FG3/PMR...	8100-FG3 / P&M Rent		30.00		0.00		30.00-	100.00-	INR
	8100-FG3/ROY...	8100-FG3 / Royalities		10.00		0.00		10.00-	100.00-	INR
	8100-FG3/POW...	8100-FG3 / Power		750.00		0.00		750.00-	100.00-	INR
	8100-FG3/FUEL	8100-FG3 / Fuel		400.00		0.00		400.00-	100.00-	INR
	8100-FG3/WAT...	8100-FG3 / Water		200.00		0.00		200.00-	100.00-	INR
	8100-FG3/DEP...	8100-FG3 / Depreciation		1,000.00		0.00		1,000.00-	100.00-	INR
	8100-FG3/REP...	8100-FG3 / Repairs & Maintance		40.00		0.00		40.00-	100.00-	INR
Confirmations			▪	**3,245.00**	▪	**0.00**	▪	**3,245.00-**		**INR**
Overhead	8100-FG3	8100-FG3		324.50		0.00		324.50-	100.00-	INR
	8100-FG3	8100-FG3		324.50		0.00		324.50-	100.00-	INR
Overhead			▪	**649.00**	▪	**0.00**	▪	**649.00-**		**INR**
Goods Receipt	8100/8100-FG3	8100-FG3		10,280.00-		0.00		10,280.00	100.00-	INR
Goods Receipt			▪	**10,280.00-**	▪	**0.00**	▪	**10,280.00**		**INR**

CO11N-Production Order Confirmation with Input Materials (through back flush)

Enter Time Ticket for Production Order

Goods Movements | Actual Data

Confirmation	123988			
Order	60004054	Material	8100-FG3	8100-FG3
Operation	0010	Sequence	0	
Suboperation				
Capacity Cat.		Split		
Work Center	8100-FG3	Plant	8100	8100-FG3

Confirm.type: X Final confirmation — Clear open reservations

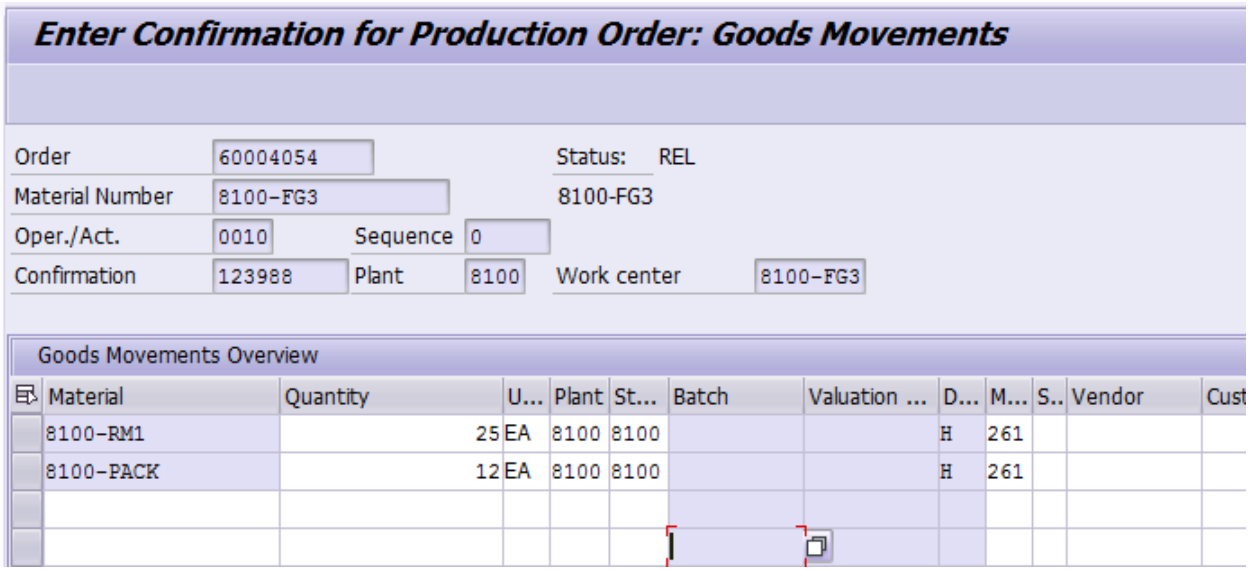
Quantities

	To Be Confirmed	Unit
Yield	10	EA
Scrap		
Rework		
Reason for Var.		

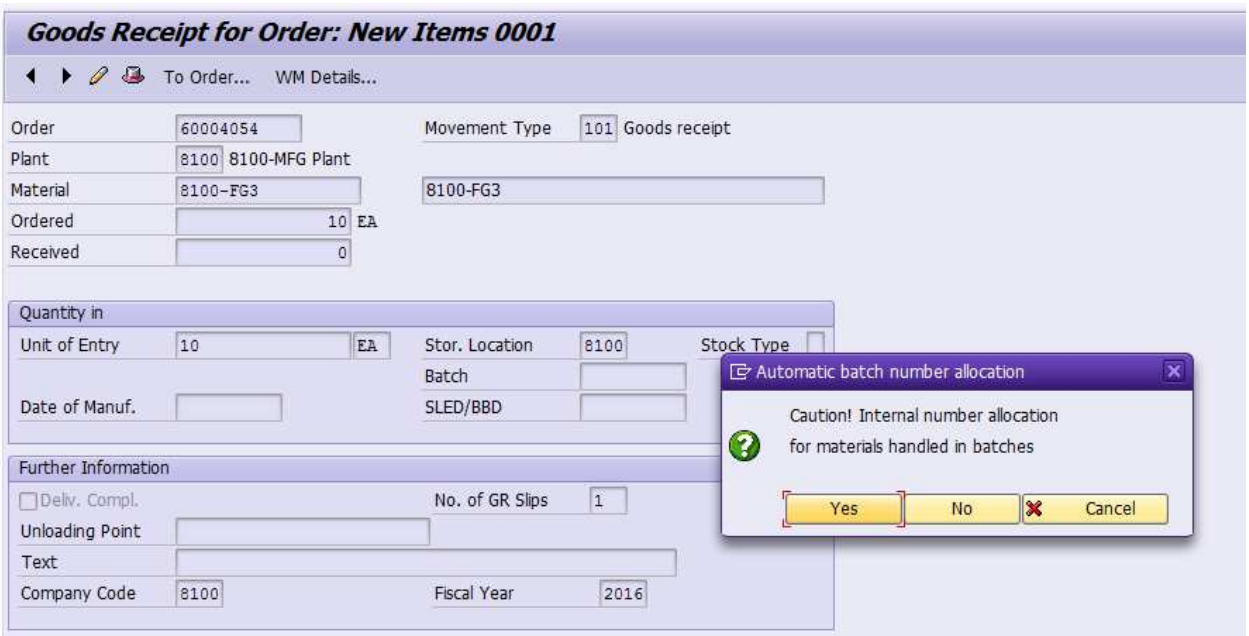
Activities

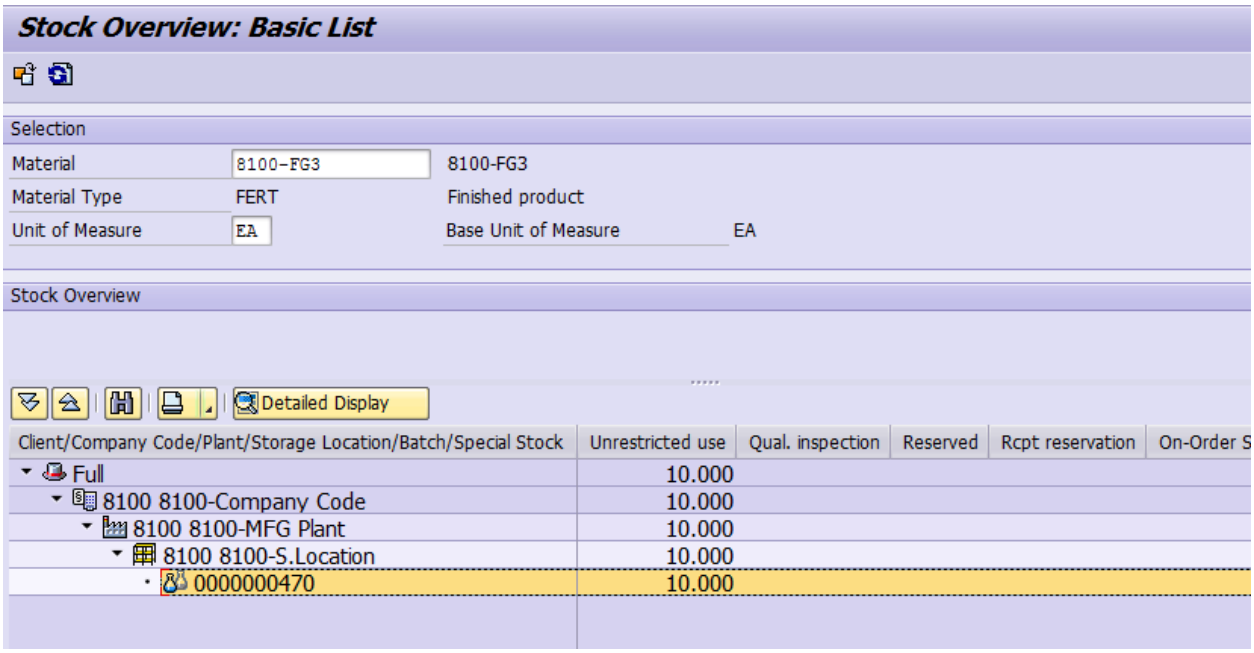
	To Be Confirmed	Unit	R
Machine Hr	100.0	HR	
Labor Hr	45.0	HR	
Power KWH	55	KWH	
Fuel kwh	25	KWH	
Water L	15	L	

Input Materials taking through BOM



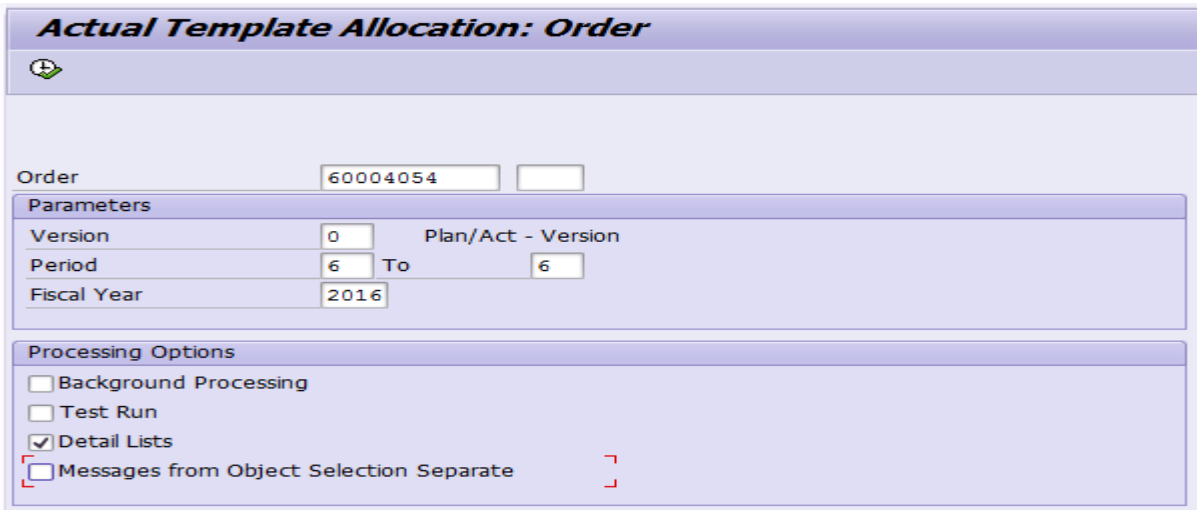
Goods Receipt: In Material master Batch management tick box maintained so system is trying to get one batch while GRN.

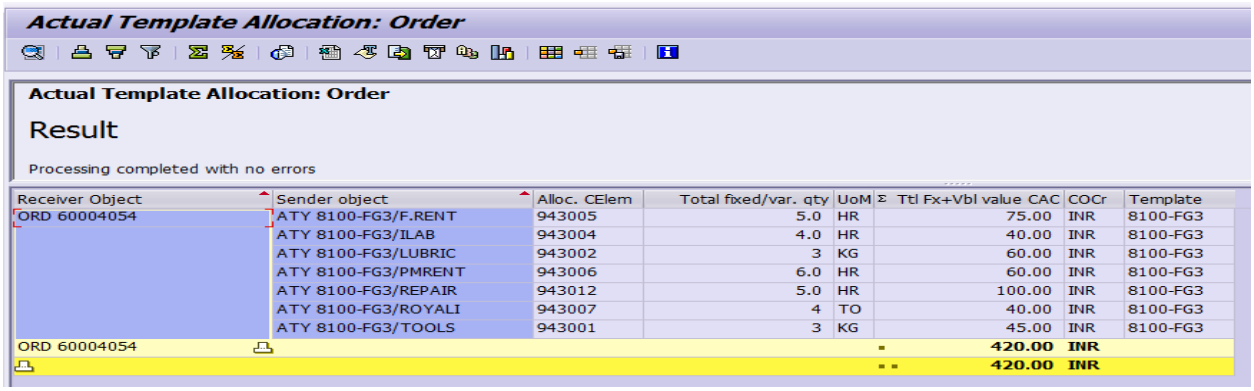




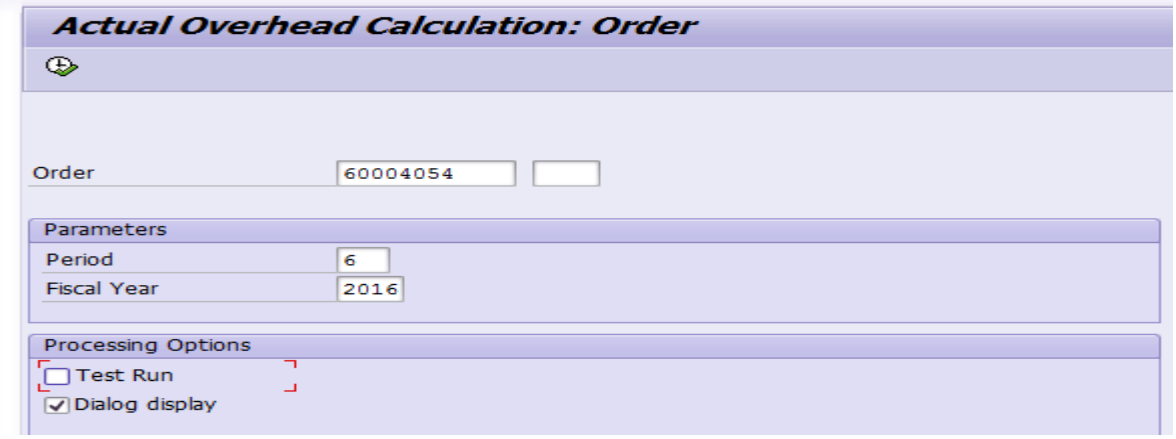
Here 0000000470 is Batch

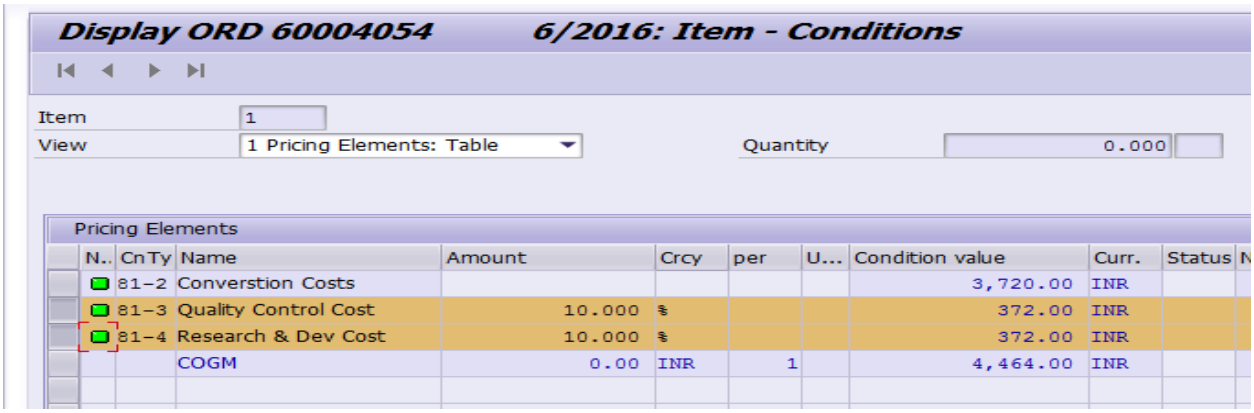
Template Allocation execution-CPTA for Actual Indirect Expenses which earlier discussed.





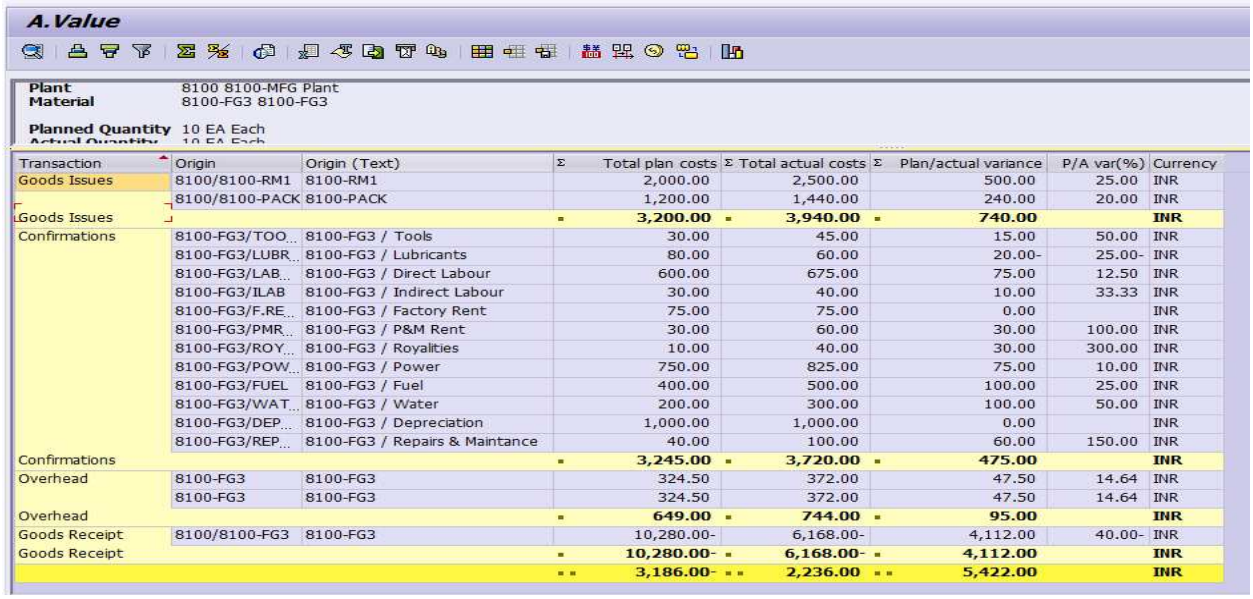
Actual Over Head Calculation-KGI2 for Quality Control Cost and Research Development Cost.





After calculation of all Expenses as Direct Materials Goods Issue, Indirect Materials by Template allocation, Direct Labor by Confirmation, Indirect Labor by Template allocation, Direct Expenses by Template allocation and Indirect expenses by Costing sheet and Template allocation procedures.

Cost Trend Display



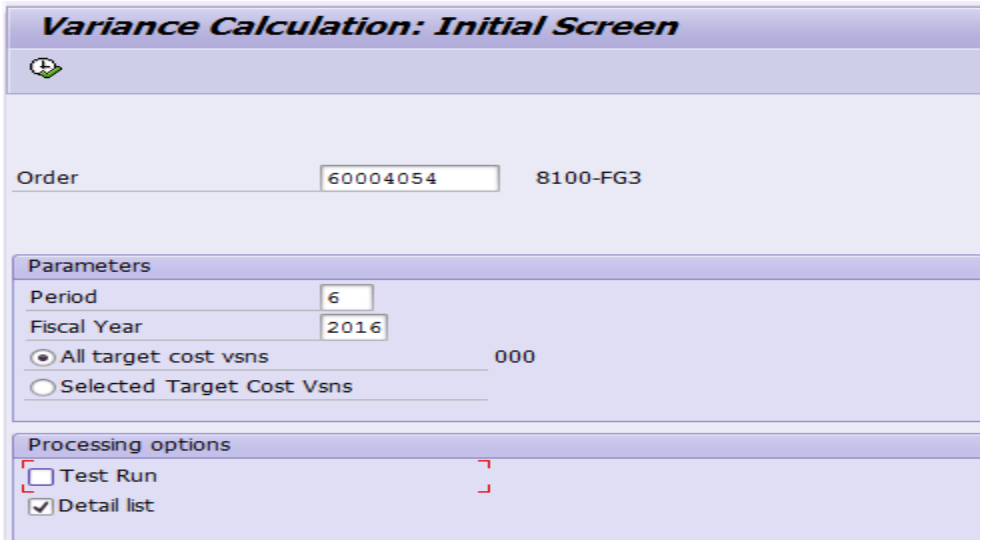
A.Value

Plant 8100 8100-MFG Plant
Material 8100-FG3 8100-FG3

Planned Quantity 10 EA Each

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,500.00	500.00	25.00	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**3,200.00**	**3,940.00**	**740.00**		**INR**
Confirmations	8100-FG3/TOO...	8100-FG3 / Tools	30.00	45.00	15.00	50.00	INR
	8100-FG3/LUBR...	8100-FG3 / Lubricants	80.00	60.00	20.00-	25.00-	INR
	8100-FG3/LAB...	8100-FG3 / Direct Labour	600.00	675.00	75.00	12.50	INR
	8100-FG3/ILAB	8100-FG3 / Indirect Labour	30.00	40.00	10.00	33.33	INR
	8100-FG3/F.RE...	8100-FG3 / Factory Rent	75.00	75.00	0.00		INR
	8100-FG3/PMR...	8100-FG3 / P&M Rent	30.00	60.00	30.00	100.00	INR
	8100-FG3/ROY...	8100-FG3 / Royalities	10.00	40.00	30.00	300.00	INR
	8100-FG3/POW...	8100-FG3 / Power	750.00	825.00	75.00	10.00	INR
	8100-FG3/FUEL	8100-FG3 / Fuel	400.00	500.00	100.00	25.00	INR
	8100-FG3/WAT...	8100-FG3 / Water	200.00	300.00	100.00	50.00	INR
	8100-FG3/DEP...	8100-FG3 / Depreciation	1,000.00	1,000.00	0.00		INR
	8100-FG3/REP...	8100-FG3 / Repairs & Maintance	40.00	100.00	60.00	150.00	INR
Confirmations			**3,245.00**	**3,720.00**	**475.00**		**INR**
Overhead	8100-FG3	8100-FG3	324.50	372.00	47.50	14.64	INR
	8100-FG3	8100-FG3	324.50	372.00	47.50	14.64	INR
Overhead			**649.00**	**744.00**	**95.00**		**INR**
Goods Receipt	8100/8100-FG3	8100-FG3	10,280.00-	6,168.00-	4,112.00	40.00-	INR
Goods Receipt			**10,280.00-**	**6,168.00-**	**4,112.00**		**INR**
			3,186.00-	**2,236.00**	**5,422.00**		**INR**

Variance Calculation-KKS2



Variance Calculation: Initial Screen

Order 60004054 8100-FG3

Parameters

Period 6

Fiscal Year 2016

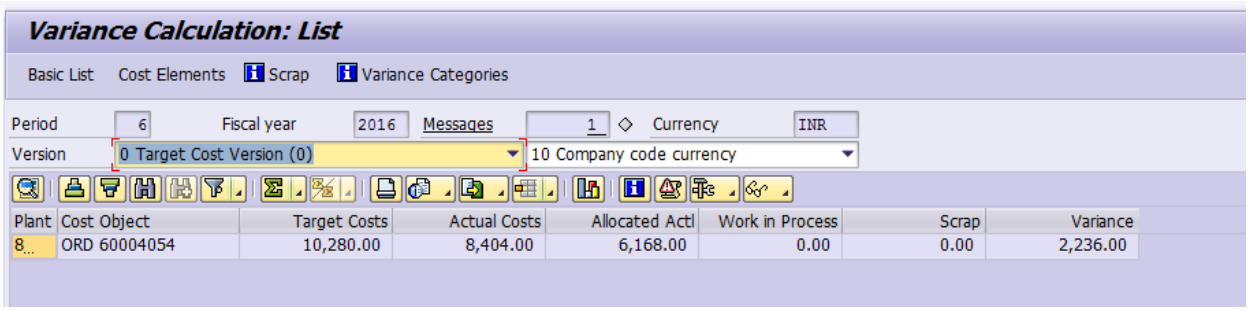
All target cost vsns 000

Selected Target Cost Vsns

Processing options

Test Run

Detail list



Variance Calculation: List

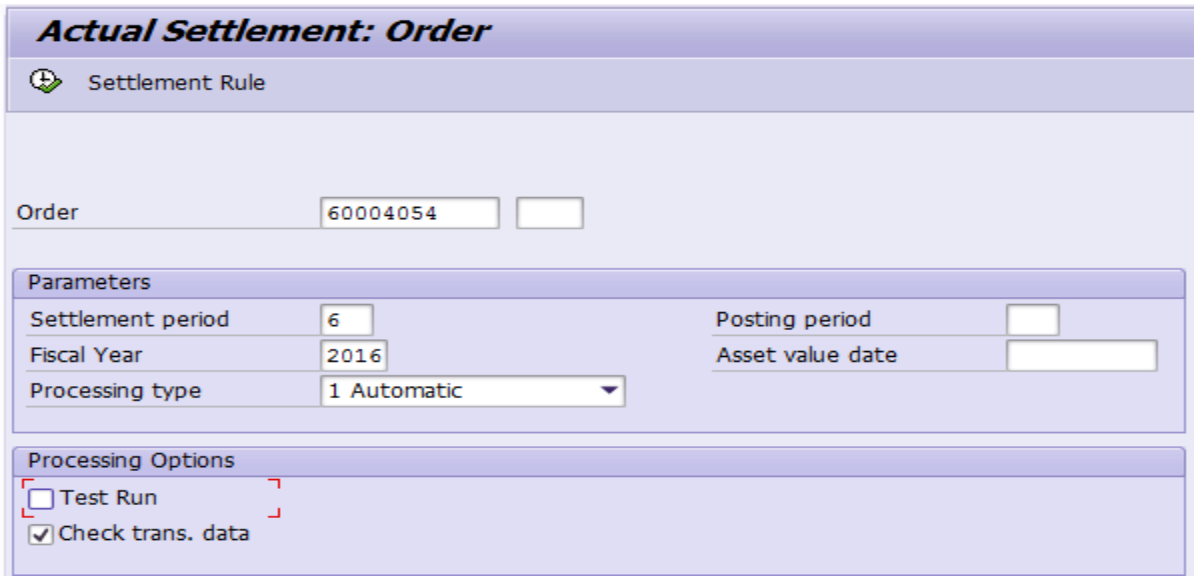
Basic List Cost Elements Scrap Variance Categories

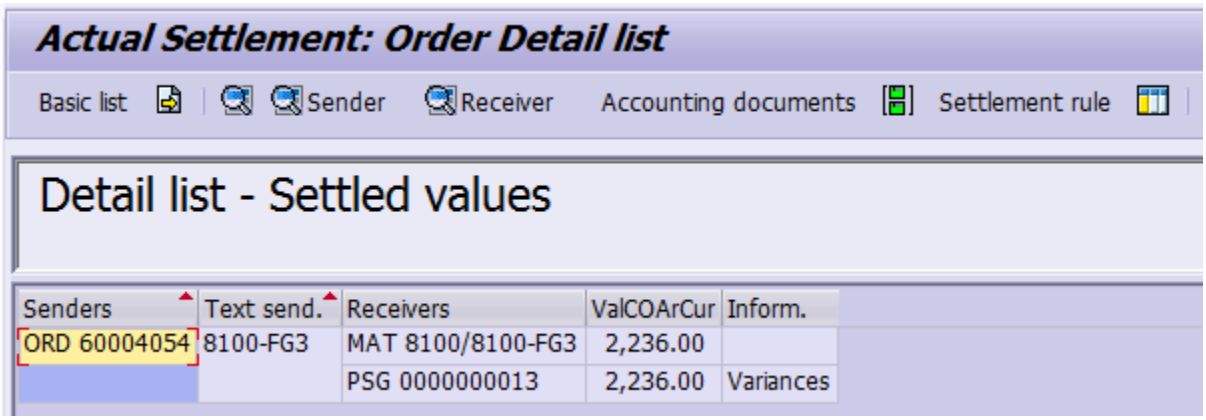
Period 6 Fiscal year 2016 Messages 1 Currency INR

Version 0 Target Cost Version (0) 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
8...	ORD 60004054	10,280.00	8,404.00	6,168.00	0.00	0.00	2,236.00

Variance Settlement-KO88



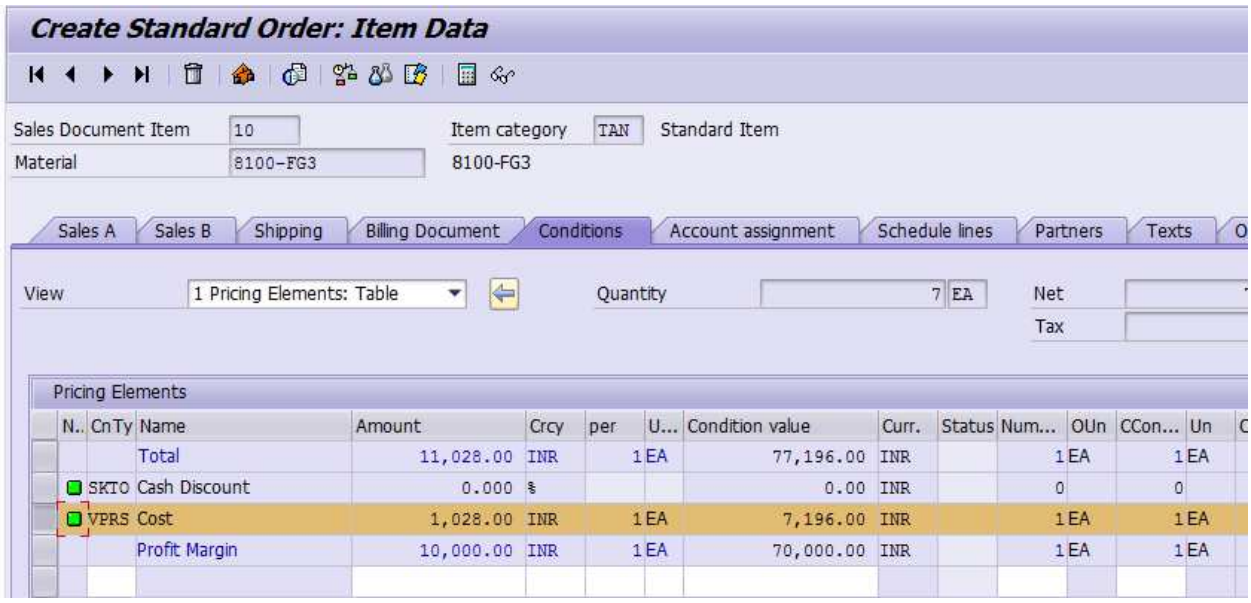


Order 60004054 8100-FG3
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG3 8100-FG3

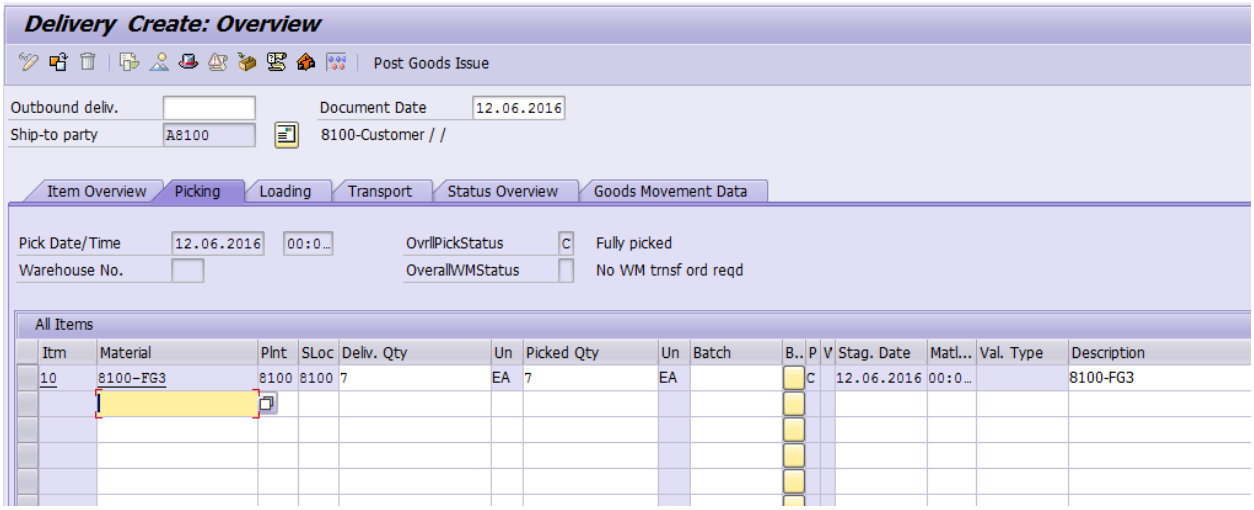
Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

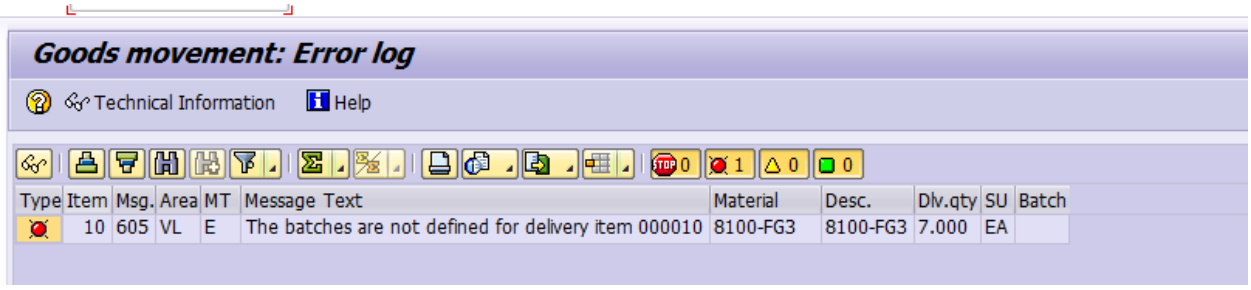
Transaction	Origin	Origin (Text)	Σ Total plan costs	Σ Total actual costs	Σ Plan/actual variance	P/A var(%)	Currency
Confirmations	8100-FG3/LUBR...	8100-FG3 / Lubricants	80.00	60.00	20.00-	25.00-	INR
	8100-FG3/LAB...	8100-FG3 / Direct Labour	600.00	675.00	75.00	12.50	INR
	8100-FG3/ILAB	8100-FG3 / Indirect Labour	30.00	40.00	10.00	33.33	INR
	8100-FG3/F.RE...	8100-FG3 / Factory Rent	75.00	75.00	0.00		INR
	8100-FG3/PMR...	8100-FG3 / P&M Rent	30.00	60.00	30.00	100.00	INR
	8100-FG3/ROY...	8100-FG3 / Royalities	10.00	40.00	30.00	300.00	INR
	8100-FG3/POW...	8100-FG3 / Power	750.00	825.00	75.00	10.00	INR
	8100-FG3/FUEL	8100-FG3 / Fuel	400.00	500.00	100.00	25.00	INR
	8100-FG3/WAT...	8100-FG3 / Water	200.00	300.00	100.00	50.00	INR
	8100-FG3/DEP...	8100-FG3 / Depreciation	1,000.00	1,000.00	0.00		INR
	8100-FG3/REP...	8100-FG3 / Repairs & Maintance	40.00	100.00	60.00	150.00	INR
Confirmations			**3,245.00**	**3,720.00**	**475.00**		**INR**
Overhead	8100-FG3	8100-FG3	324.50	372.00	47.50	14.64	INR
	8100-FG3	8100-FG3	324.50	372.00	47.50	14.64	INR
Overhead			**649.00**	**744.00**	**95.00**		**INR**
Goods Receipt	8100/8100-FG3	8100-FG3	10,280.00-	6,168.00-	4,112.00	40.00-	INR
Goods Receipt			**10,280.00-**	**6,168.00-**	**4,112.00**		**INR**
Settlement		(without origin)	0.00	2,236.00-	2,236.00-		INR
Settlement			**0.00**	**2,236.00-**	**2,236.00-**		**INR**
			3,186.00-	**0.00**	**3,186.00**		**INR**

Sales Order Creation-VA01

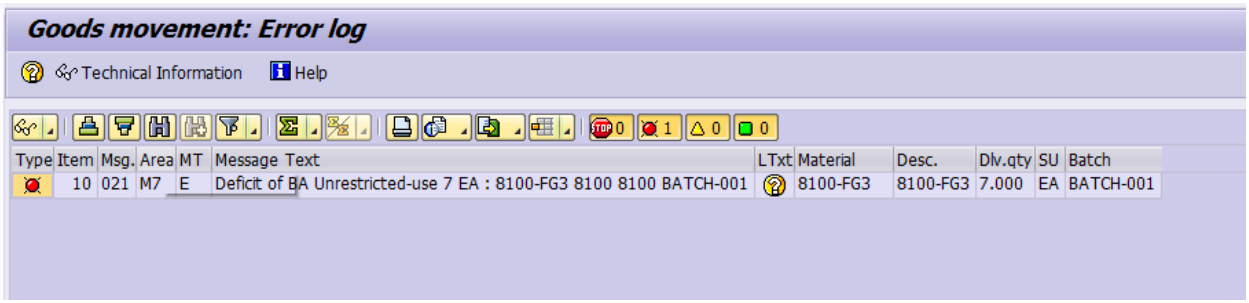


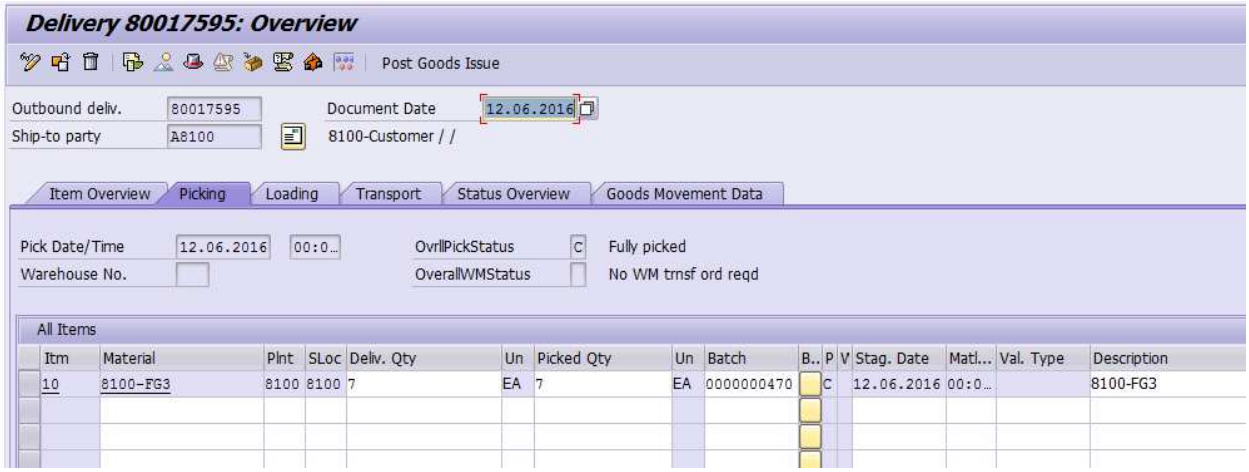
Delivery (trying to without batch)



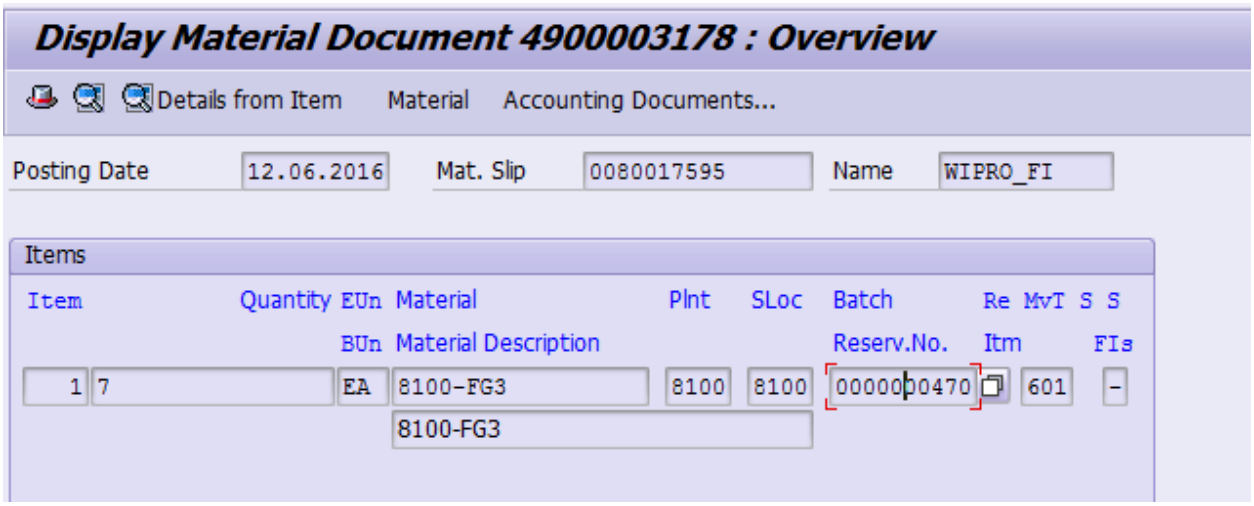


If it is wrong batch also system will throw error message as no Stock.

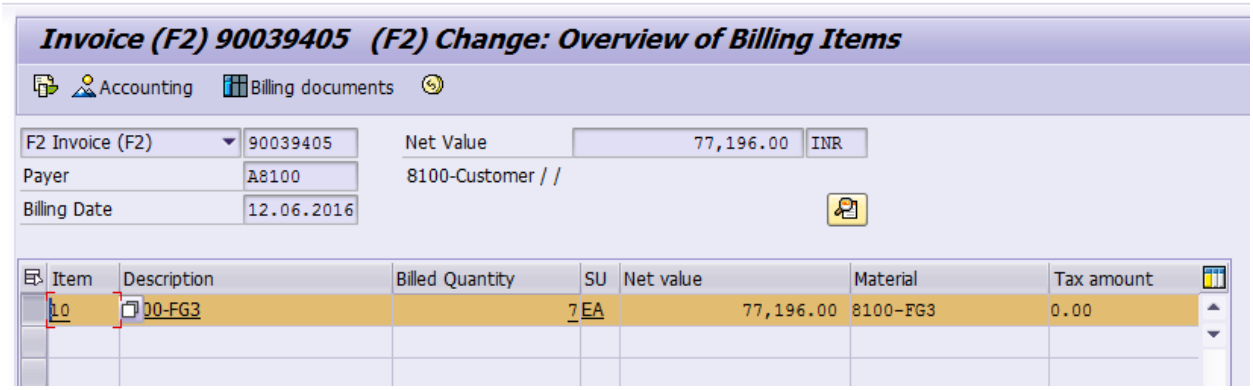


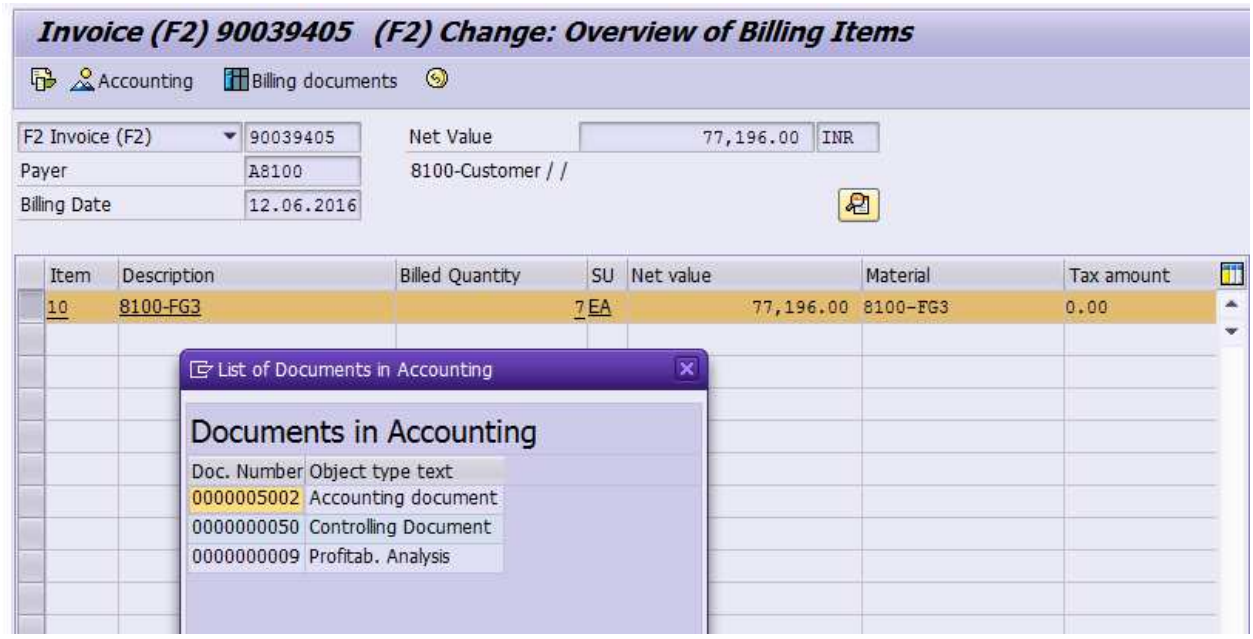


Check Batch Number here



Invoice-VF01



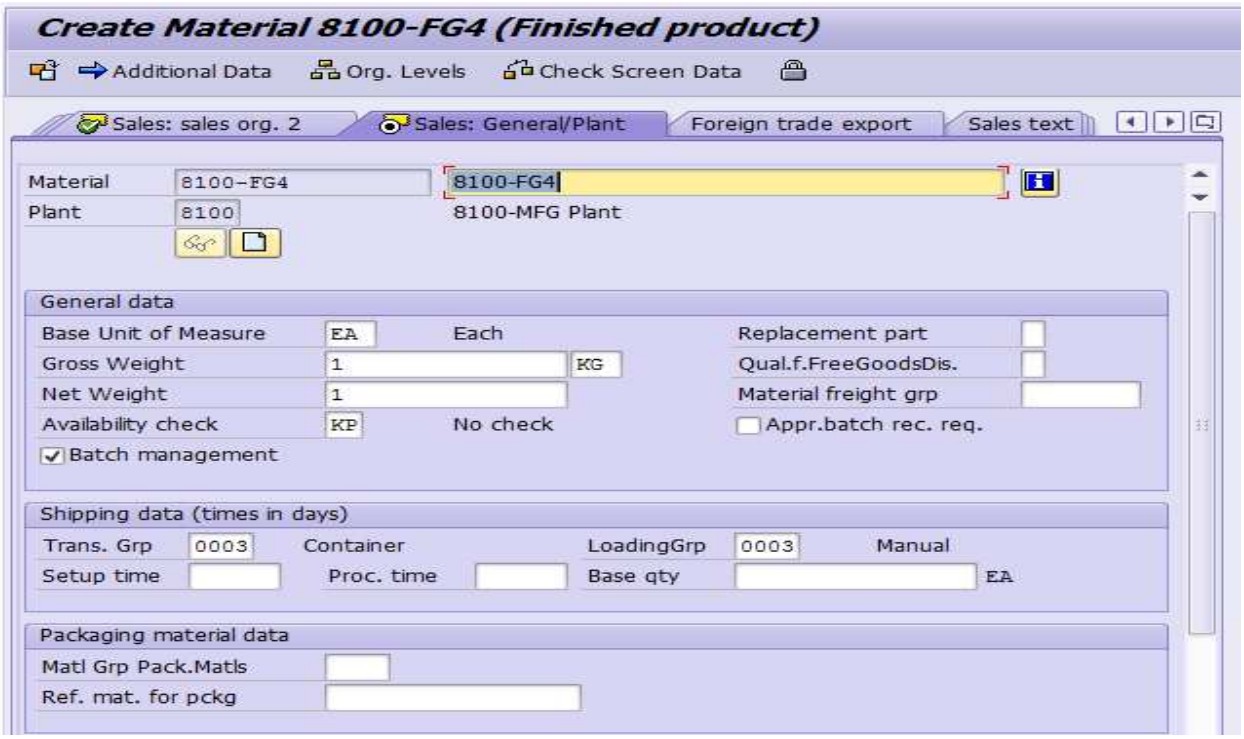


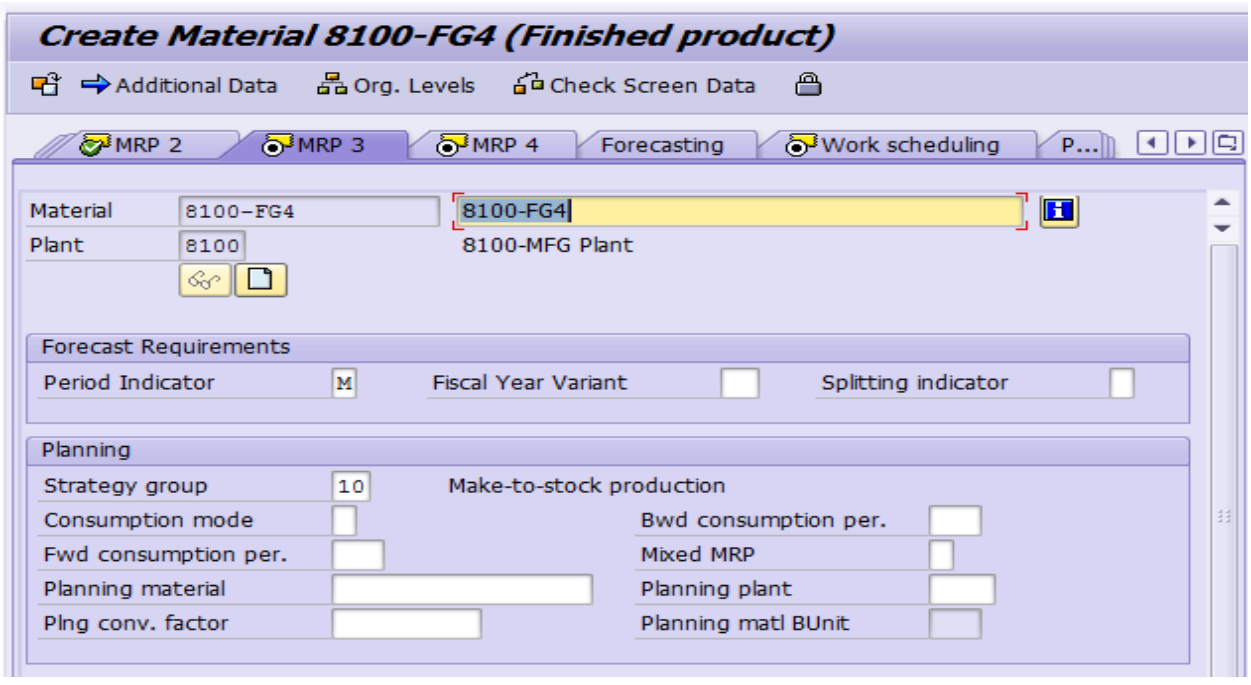
Batch Costing

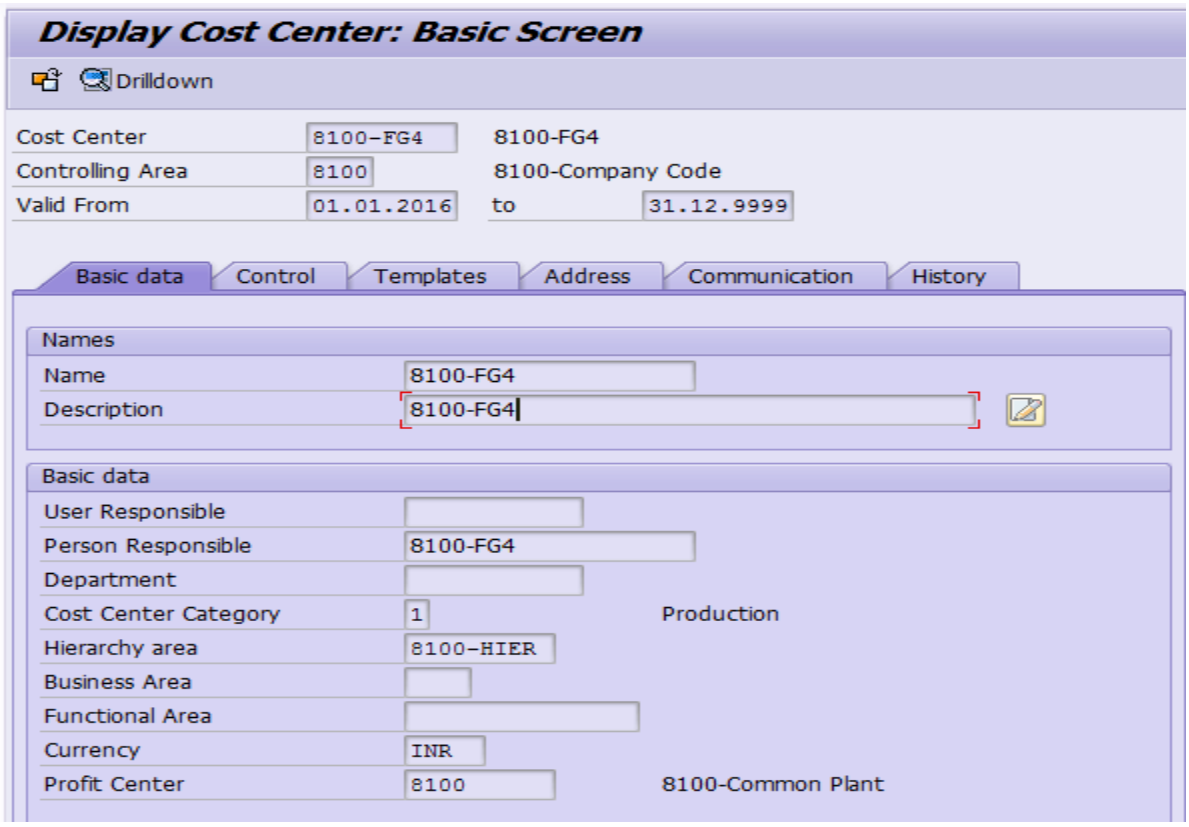
Product Cost by Order

2). Without PP module implementation

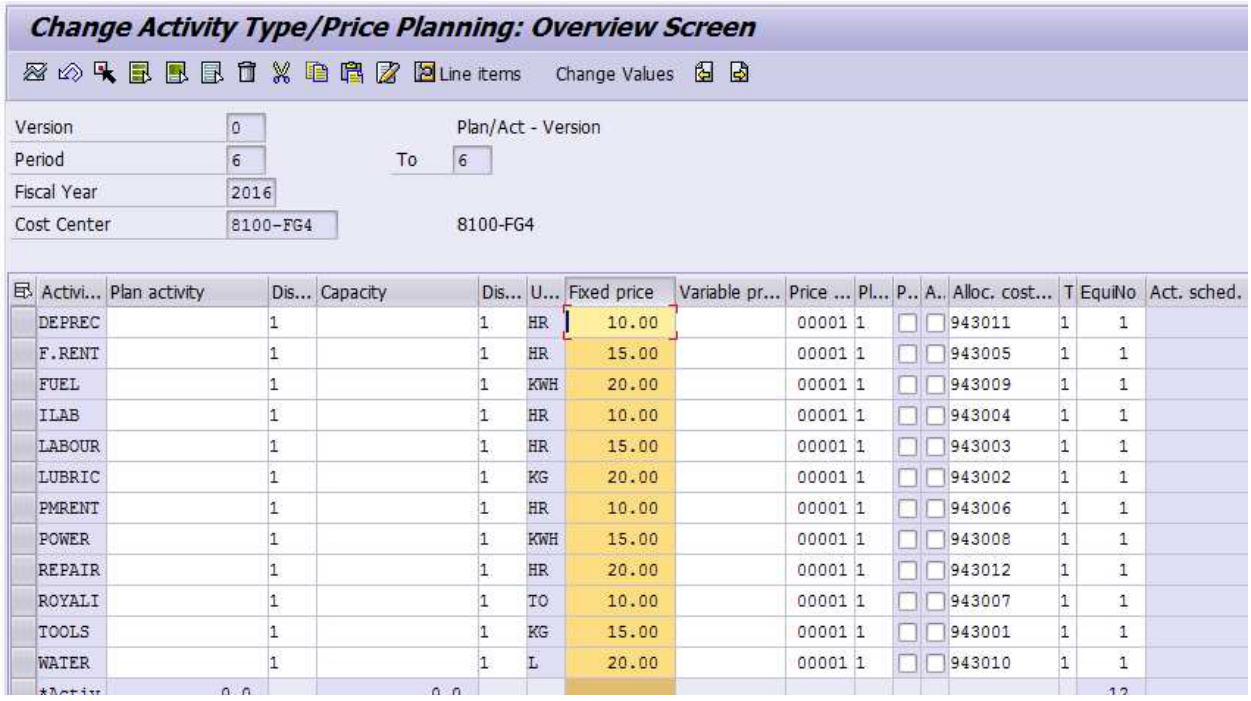
MM01


Create Material 8100-FG4 (Finished product)
Additional Data
Org. Levels
Check Screen Data
Sales: sales org. 2
Sales: General/Plant
Foreign trade export
Sales text
Material 8100-FG4
8100-FG4
Plant 8100
8100-MFG Plant
General data
Base Unit of Measure EA Each
Gross Weight 1 KG
Net Weight 1
Availability check KP No check
Batch management
Replacement part
Qual.f.FreeGoodsDis.
Material freight grp
Appr.batch rec. req.
Shipping data (times in days)
Trans. Grp 0003
Container
LoadingGrp 0003
Manual
Setup time
Proc. time
Base qty
EA
Packaging material data
Matl Grp Pack.Matls
Ref. mat. for pckg


Create Material 8100-FG4 (Finished product)
Additional Data
Org. Levels
Check Screen Data
MRP 2
MRP 3
MRP 4
Forecasting
Work scheduling
P...
Material 8100-FG4
8100-FG4
Plant 8100
8100-MFG Plant
Forecast Requirements
Period Indicator M
Fiscal Year Variant
Splitting indicator
Planning
Strategy group 10
Make-to-stock production
Consumption mode
Fwd consumption per.
Planning material
Plng conv. factor
Bwd consumption per.
Mixed MRP
Planning plant
Planning matl BUnit

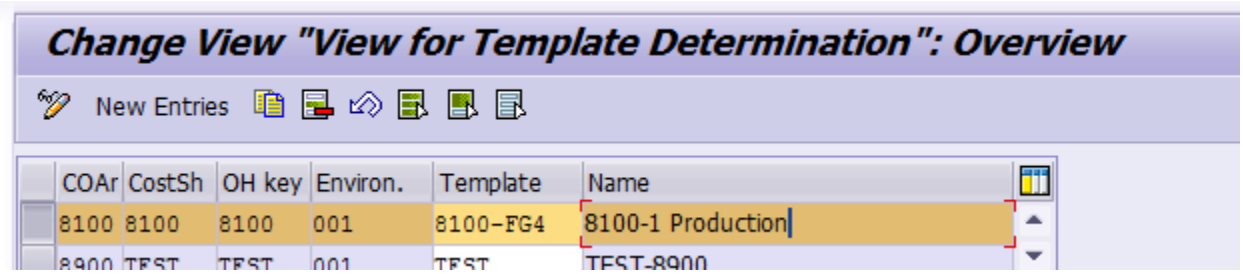


KP26

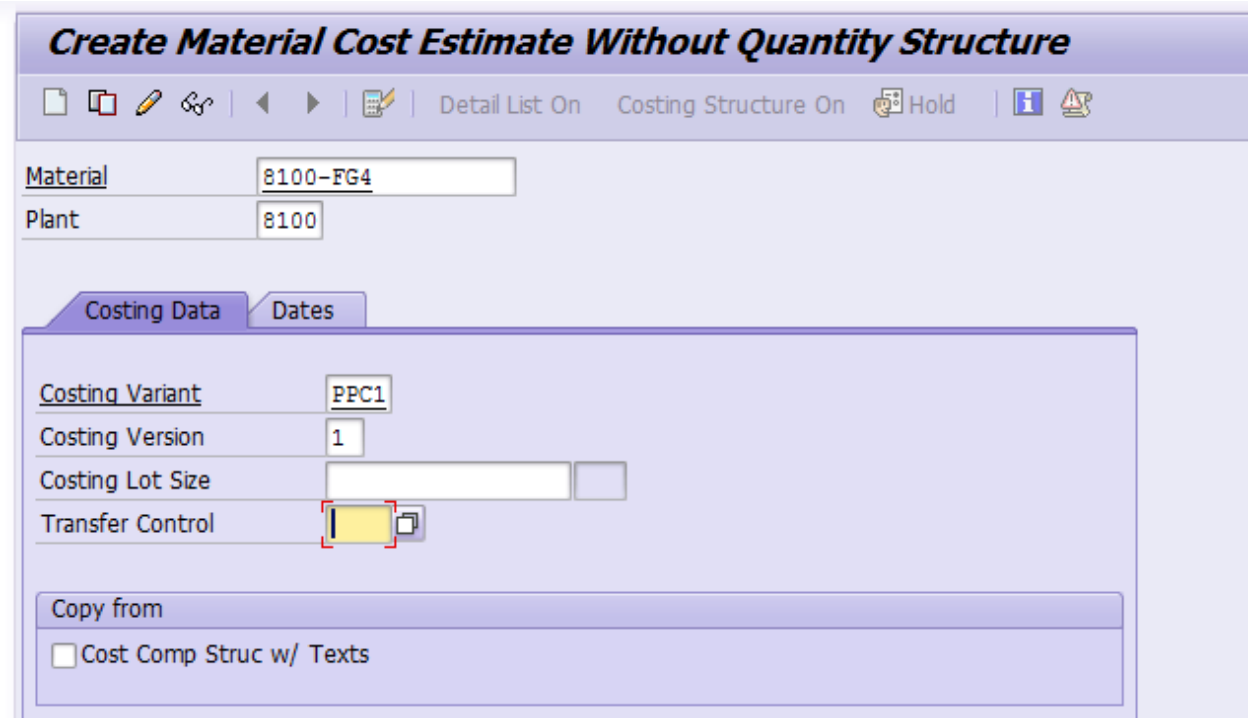


Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...	T	EquiNo	Act. sched.
DEPREC		1		1	HR	10.00		00001	1			943011	1	1	
F.RENT		1		1	HR	15.00		00001	1			943005	1	1	
FUEL		1		1	KWH	20.00		00001	1			943009	1	1	
ILAB		1		1	HR	10.00		00001	1			943004	1	1	
LABOUR		1		1	HR	15.00		00001	1			943003	1	1	
LUBRIC		1		1	KG	20.00		00001	1			943002	1	1	
PMRENT		1		1	HR	10.00		00001	1			943006	1	1	
POWER		1		1	KWH	15.00		00001	1			943008	1	1	
REPAIR		1		1	HR	20.00		00001	1			943012	1	1	
ROYALI		1		1	TO	10.00		00001	1			943007	1	1	
TOOLS		1		1	KG	15.00		00001	1			943001	1	1	
WATER		1		1	L	20.00		00001	1			943010	1	1	
*Activ...	0.0		0.0											12	

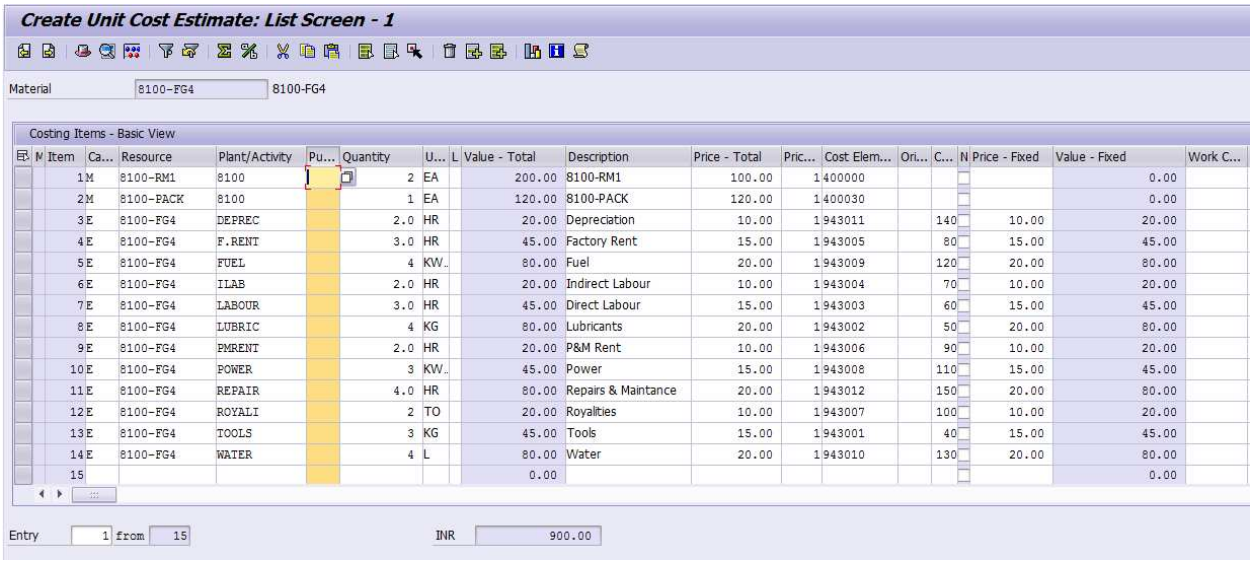
Create Template allocation



KKPAN-Cost Estimation without Quantity Structure



Here we should enter manually Input Materials & Activity types not Overhead .Over Heads automatically will calculate based on Conversation Cost by Costing sheet once save the Cost estimation.



Create Unit Cost Estimate: List Screen - 1

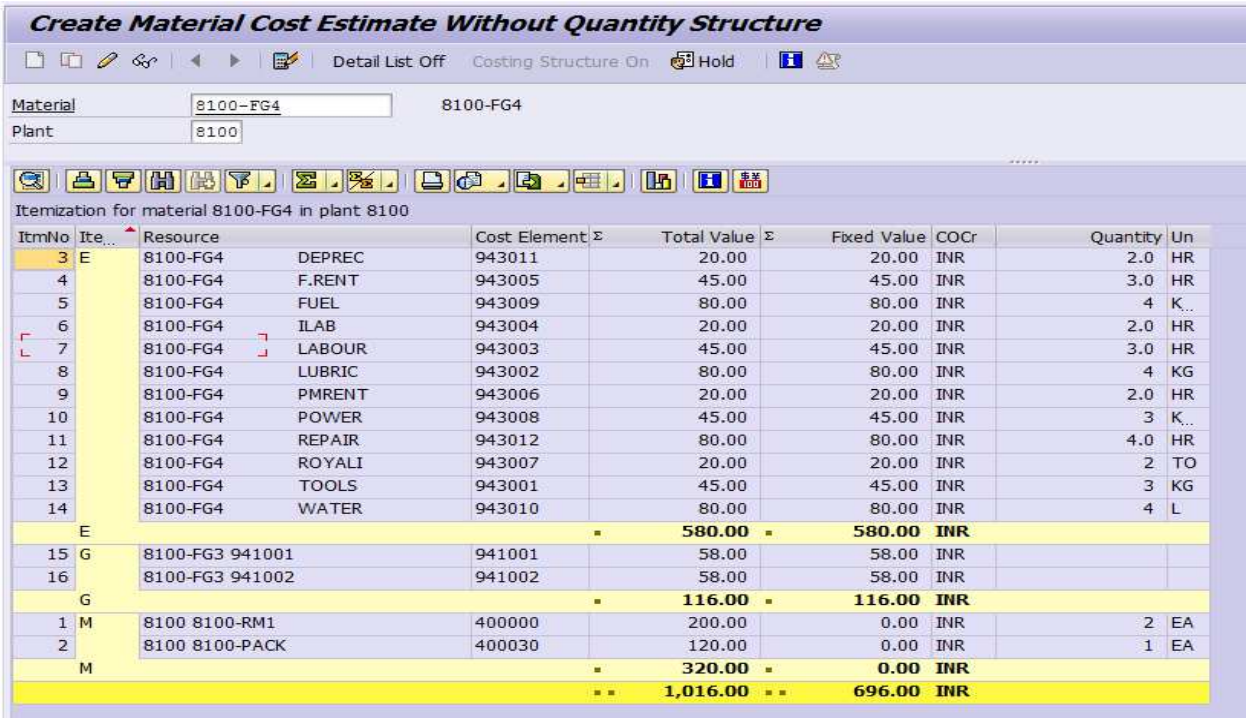
Material 8100-FG4 8100-FG4

Costing Items - Basic View

M	Item	Ca...	Resource	Plant/Activity	Pu...	Quantity	U...	L	Value - Total	Description	Price - Total	Pric...	Cost Elem...	Ori...	C...	N	Price - Fixed	Value - Fixed	Work C...
	1	M	8100-RM1	8100		2	EA		200.00	8100-RM1	100.00	1	400000					0.00	
	2	M	8100-PACK	8100		1	EA		120.00	8100-PACK	120.00	1	400030					0.00	
	3	E	8100-FG4	DEPREC		2.0	HR		20.00	Depreciation	10.00	1	943011		140		10.00	20.00	
	4	E	8100-FG4	F.RENT		3.0	HR		45.00	Factory Rent	15.00	1	943005		80		15.00	45.00	
	5	E	8100-FG4	FUEL		4	KW		80.00	Fuel	20.00	1	943009		120		20.00	80.00	
	6	E	8100-FG4	ILAB		2.0	HR		20.00	Indirect Labour	10.00	1	943004		70		10.00	20.00	
	7	E	8100-FG4	LABOUR		3.0	HR		45.00	Direct Labour	15.00	1	943003		60		15.00	45.00	
	8	E	8100-FG4	LUBRIC		4	KG		80.00	Lubricants	20.00	1	943002		50		20.00	80.00	
	9	E	8100-FG4	PMRENT		2.0	HR		20.00	P&M Rent	10.00	1	943006		90		10.00	20.00	
	10	E	8100-FG4	POWER		3	KW		45.00	Power	15.00	1	943008		110		15.00	45.00	
	11	E	8100-FG4	REPAIR		4.0	HR		80.00	Repairs & Maintance	20.00	1	943012		150		20.00	80.00	
	12	E	8100-FG4	ROYALI		2	TO		20.00	Royalties	10.00	1	943007		100		10.00	20.00	
	13	E	8100-FG4	TOOLS		3	KG		45.00	Tools	15.00	1	943001		40		15.00	45.00	
	14	E	8100-FG4	WATER		4	L		80.00	Water	20.00	1	943010		130		20.00	80.00	
	15								0.00									0.00	

Entry 1 from 15 INR 900.00

Here we can observe the Over cost (R&D Cost and QC Cost) automatically coming



Create Material Cost Estimate Without Quantity Structure

Detail List Off | Costing Structure On | Hold

Material 8100-FG4 8100-FG4

Plant 8100

Itemization for material 8100-FG4 in plant 8100

ItmNo	Ite...	Resource		Cost Element	Σ	Total Value	Σ	Fixed Value	COCr	Quantity	Un
3	E	8100-FG4	DEPREC	943011		20.00		20.00	INR	2.0	HR
4		8100-FG4	F.RENT	943005		45.00		45.00	INR	3.0	HR
5		8100-FG4	FUEL	943009		80.00		80.00	INR	4	K...
6		8100-FG4	ILAB	943004		20.00		20.00	INR	2.0	HR
7		8100-FG4	LABOUR	943003		45.00		45.00	INR	3.0	HR
8		8100-FG4	LUBRIC	943002		80.00		80.00	INR	4	KG
9		8100-FG4	PMRENT	943006		20.00		20.00	INR	2.0	HR
10		8100-FG4	POWER	943008		45.00		45.00	INR	3	K...
11		8100-FG4	REPAIR	943012		80.00		80.00	INR	4.0	HR
12		8100-FG4	ROYALI	943007		20.00		20.00	INR	2	TO
13		8100-FG4	TOOLS	943001		45.00		45.00	INR	3	KG
14		8100-FG4	WATER	943010		80.00		80.00	INR	4	L
	E				=	**580.00**	=	**580.00**	**INR**		
15	G	8100-FG3 941001		941001		58.00		58.00	INR		
16		8100-FG3 941002		941002		58.00		58.00	INR		
	G				=	**116.00**	=	**116.00**	**INR**		
1	M	8100 8100-RM1		400000		200.00		0.00	INR	2	EA
2		8100 8100-PACK		400030		120.00		0.00	INR	1	EA
	M				=	**320.00**	=	**0.00**	**INR**		
					==	**1,016.00**	==	**696.00**	**INR**		

Create Material Cost Estimate Without Quantity Structure

Detail List Off | Costing Structure On | Hold

Material 8100-FG4 8100-FG4
Plant 8100

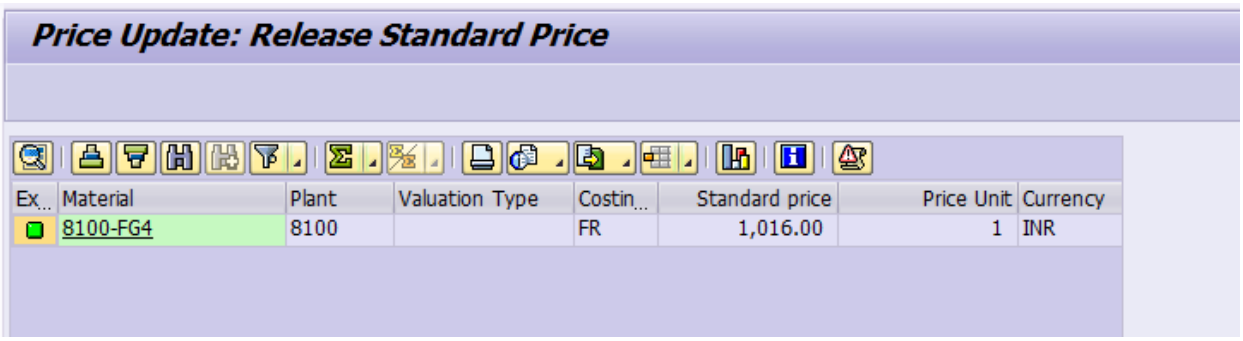
Cost Components for Material 8100-FG4 Plant 8100

CC...	Name of Cost Comp.	Σ Overall	Σ Fixed	Σ Variable	Crcy
10	Raw Material	200.00		200.00	INR
20	Processing Material				INR
30	Packing Material	120.00		120.00	INR
40	Tools	45.00	45.00		INR
50	Lubricants	80.00	80.00		INR
60	Direct Labour	45.00	45.00		INR
70	Indirect Labour	20.00	20.00		INR
80	Factory Rent	45.00	45.00		INR
90	Plant & Machine Rent	20.00	20.00		INR
100	Royalities	20.00	20.00		INR
110	Power	45.00	45.00		INR
120	Fuel	80.00	80.00		INR
130	Water	80.00	80.00		INR
140	Depreciation	20.00	20.00		INR
150	Repairs & Maintance	80.00	80.00		INR
160	Quality Control Cost	58.00	58.00		INR
170	Research & Dev Cost	58.00	58.00		INR
		1,016.00	**696.00**	**320.00**	**INR**

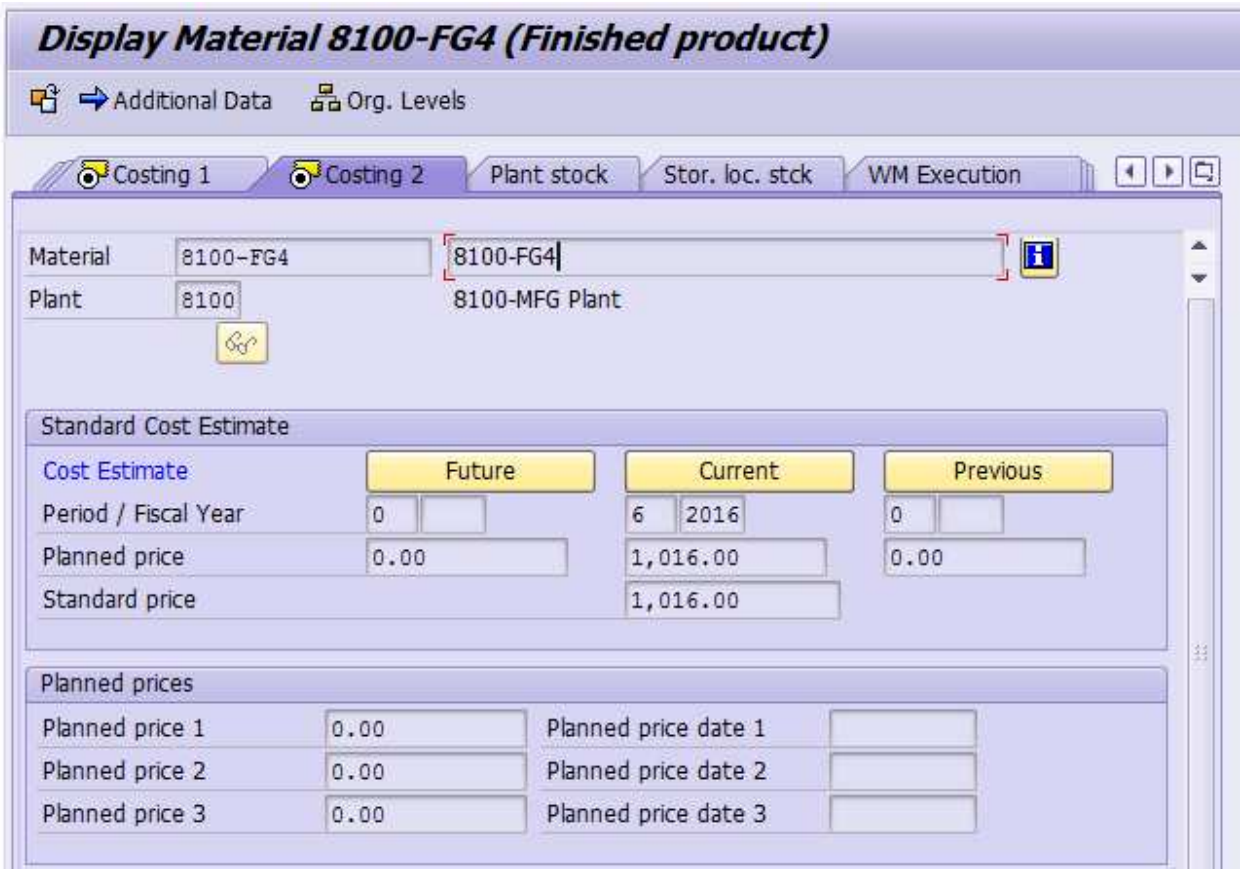
CK24-Marking and Release

Price Update: Mark Standard Price

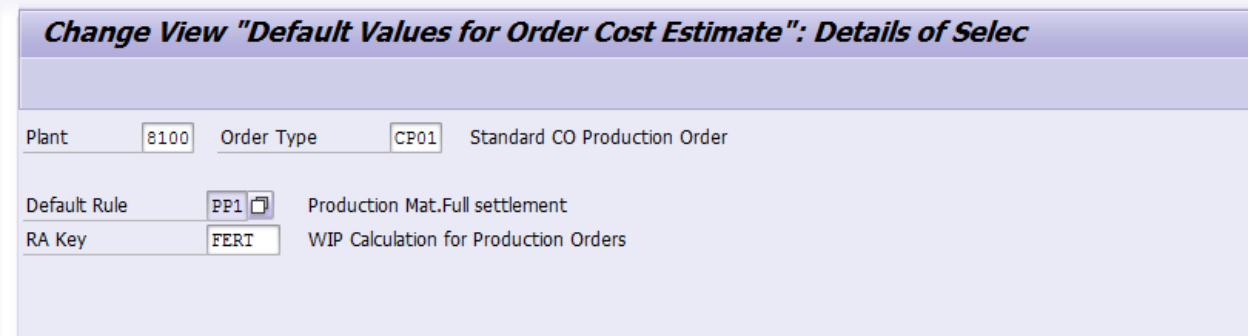
Ex...	Material	Plant	Valuation Type	Costin...	Fut. plnd price	Standard price	Pr
	8100-FG4	8100		VO	1,016.00	0.00	


Price Update: Release Standard Price
Ex... Material Plant Valuation Type Costin... Standard price Price Unit Currency
8100-FG4 8100 FR 1,016.00 1 INR

MM03


Display Material 8100-FG4 (Finished product)
Additional Data
Org. Levels
Costing 1
Costing 2
Plant stock
Stor. loc. stck
WM Execution
Material 8100-FG4 8100-FG4
Plant 8100 8100-MFG Plant
Standard Cost Estimate
Cost Estimate Future Current Previous
Period / Fiscal Year 0 6 2016 0
Planned price 0.00 1,016.00 0.00
Standard price 1,016.00
Planned prices
Planned price 1 0.00 Planned price date 1
Planned price 2 0.00 Planned price date 2
Planned price 3 0.00 Planned price date 3

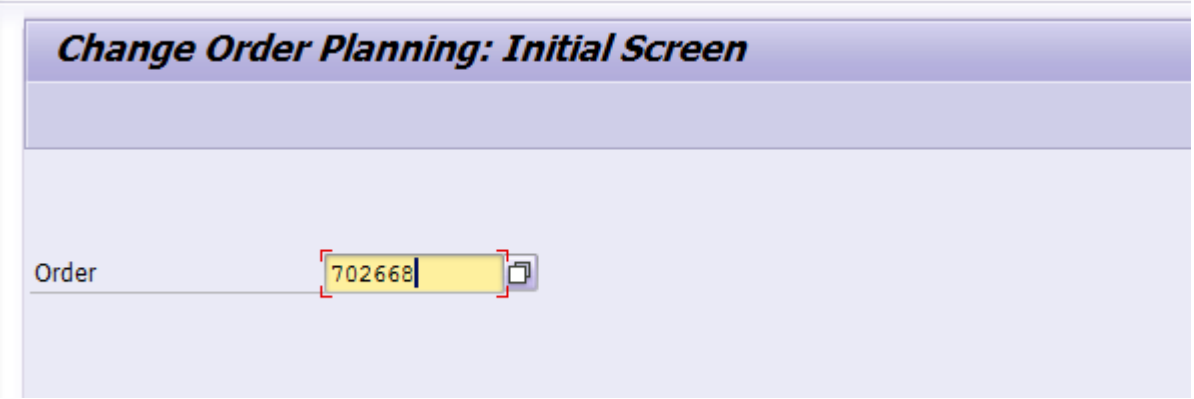
Define Cost-Accounting-Relevant Default Values for Order Types and Plants –OKZ3



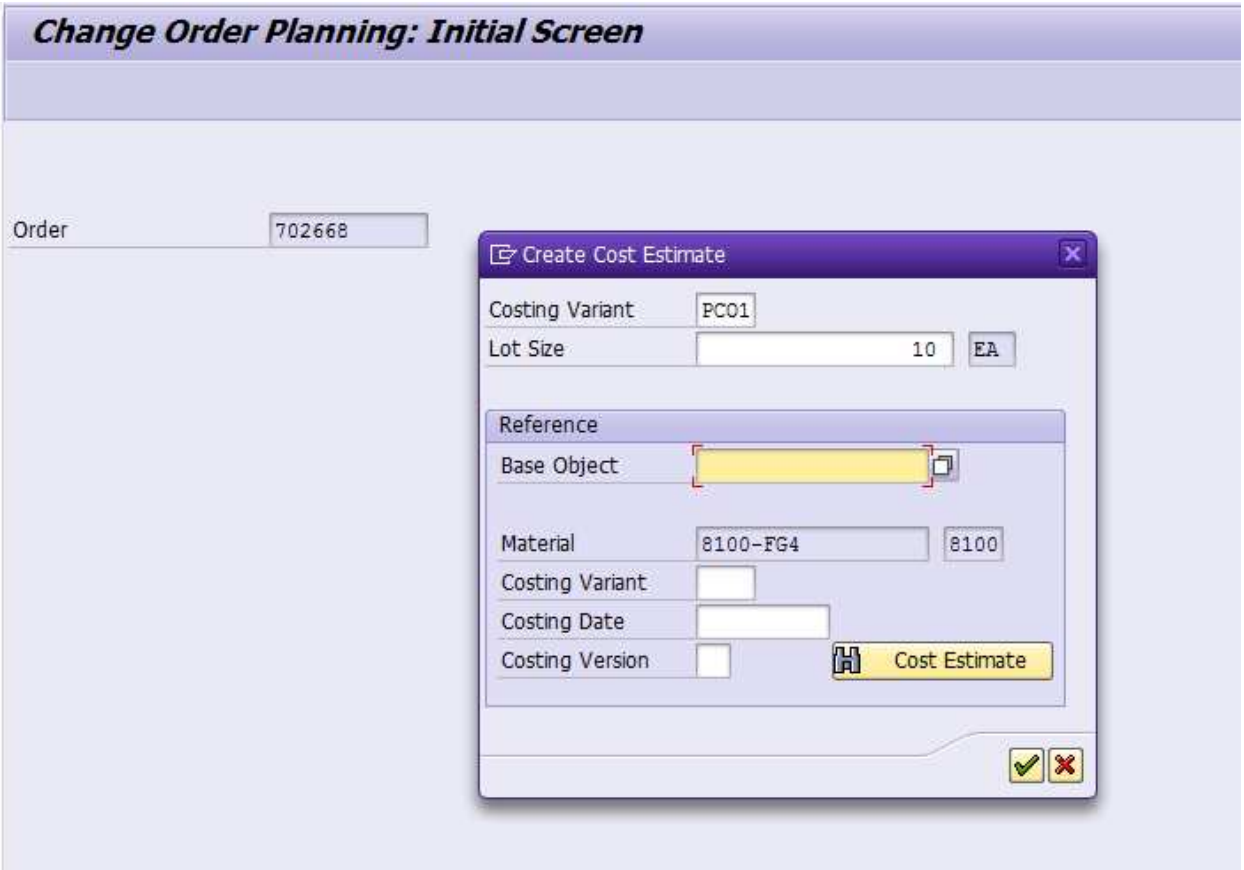
KKF1-CO Production Order

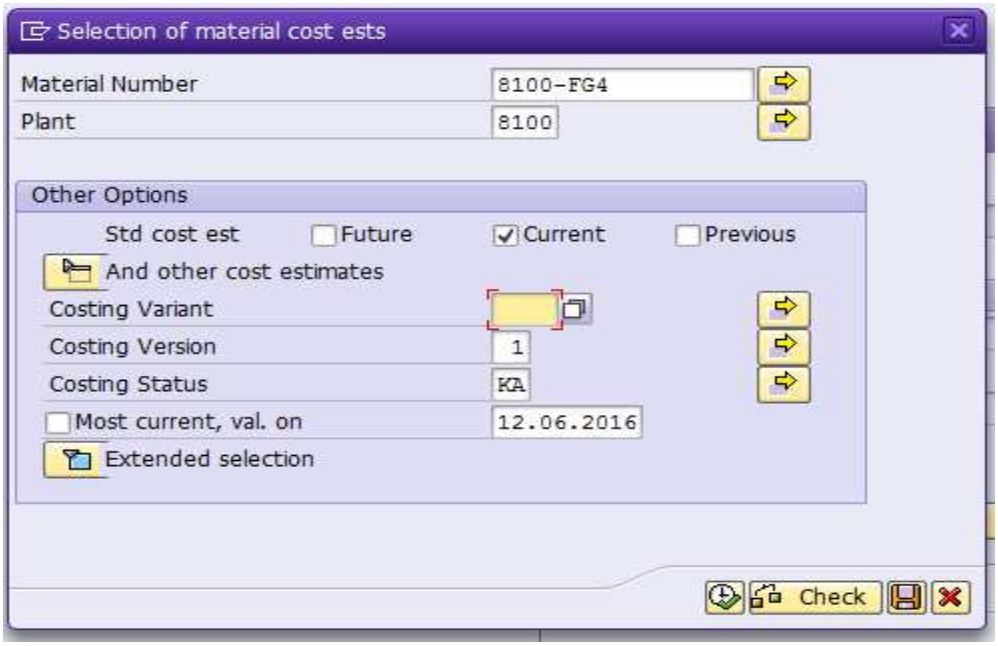
Order was created with number 702668

CO-Production Order plan-KKF4

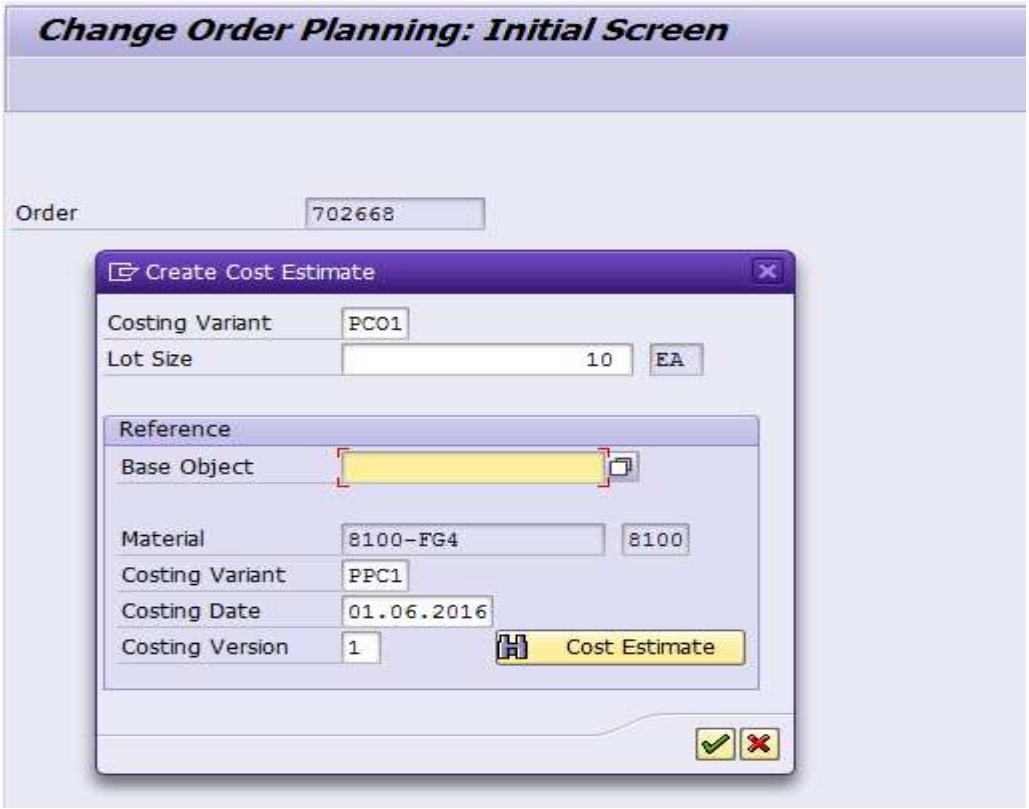


Enter Costing Varint-PC01, Lot size (production Qty) and click on Cost Estimate button



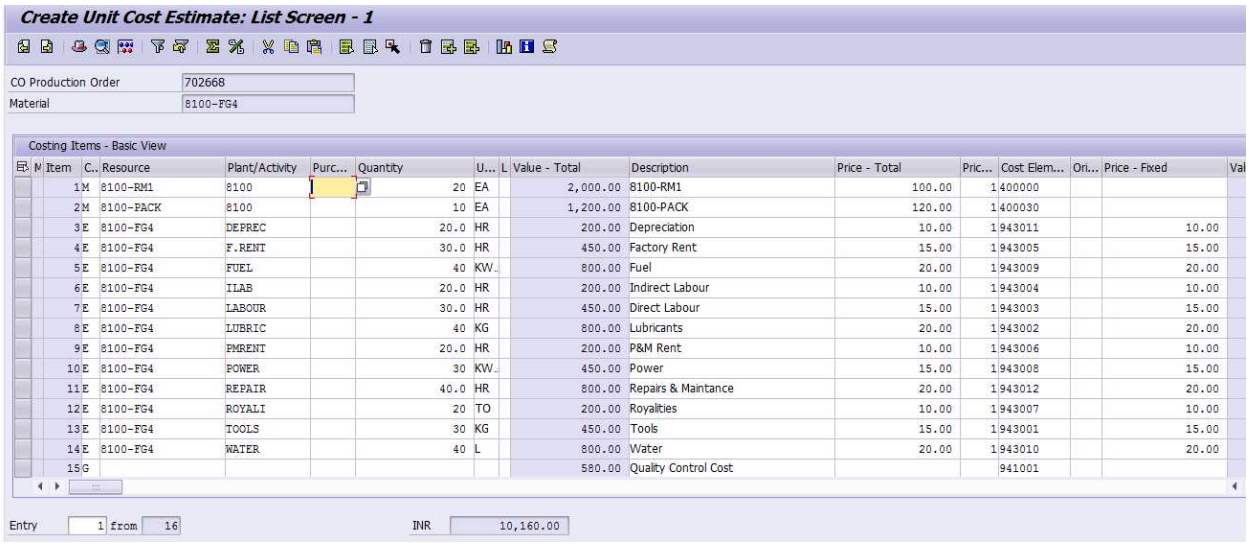


Then execute



System will calculate for inputs for 10 qty production with Over heads also here

Then save



Create Unit Cost Estimate: List Screen - 1

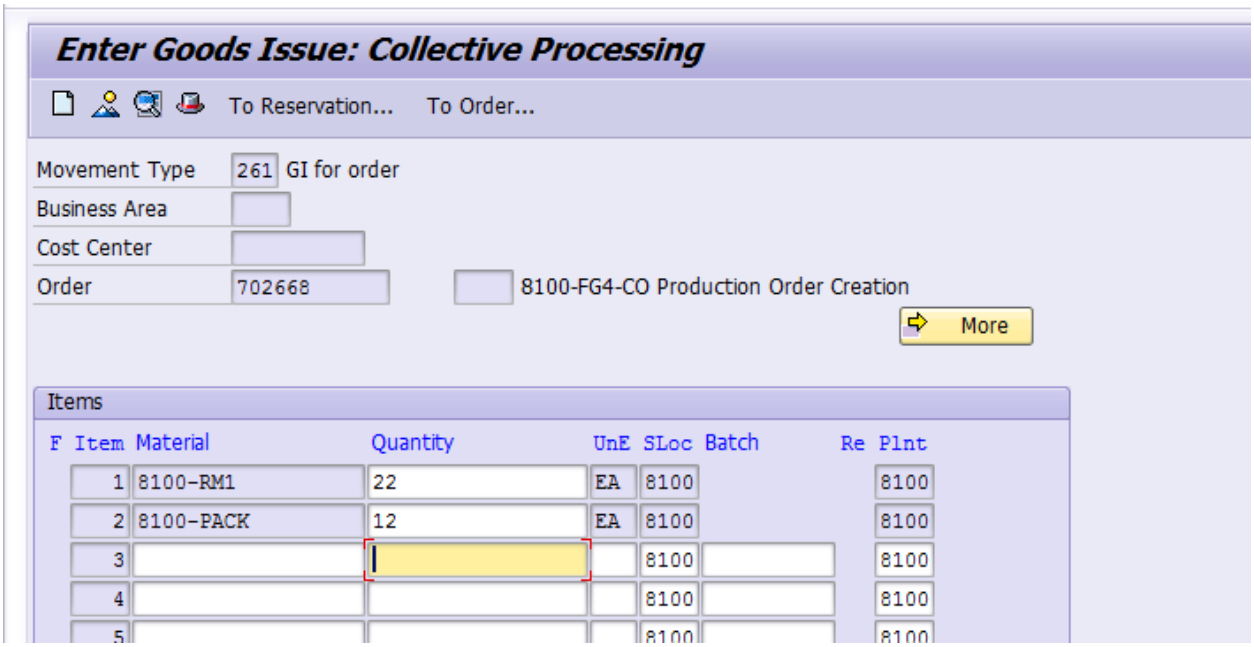
CO Production Order 702668
Material 8100-FG4

Costing Items - Basic View

M	Item	C..	Resource	Plant/Activity	Purc...	Quantity	U...	L	Value - Total	Description	Price - Total	Pric...	Cost Elem...	Ori...	Price - Fixed	Val
	1	M	8100-RM1	8100		20	EA		2,000.00	8100-RM1	100.00	1	400000			
	2	M	8100-PACK	8100		10	EA		1,200.00	8100-PACK	120.00	1	400030			
	3	E	8100-FG4	DEPREC		20.0	HR		200.00	Depreciation	10.00	1	943011		10.00	
	4	E	8100-FG4	F.RENT		30.0	HR		450.00	Factory Rent	15.00	1	943005		15.00	
	5	E	8100-FG4	FUEL		40	KW..		800.00	Fuel	20.00	1	943009		20.00	
	6	E	8100-FG4	ILAB		20.0	HR		200.00	Indirect Labour	10.00	1	943004		10.00	
	7	E	8100-FG4	LABOUR		30.0	HR		450.00	Direct Labour	15.00	1	943003		15.00	
	8	E	8100-FG4	LUBRIC		40	KG		800.00	Lubricants	20.00	1	943002		20.00	
	9	E	8100-FG4	PMRENT		20.0	HR		200.00	P&M Rent	10.00	1	943006		10.00	
	10	E	8100-FG4	POWER		30	KW..		450.00	Power	15.00	1	943008		15.00	
	11	E	8100-FG4	REPAIR		40.0	HR		800.00	Repairs & Maintance	20.00	1	943012		20.00	
	12	E	8100-FG4	ROYALI		20	TO		200.00	Royalties	10.00	1	943007		10.00	
	13	E	8100-FG4	TOOLS		30	KG		450.00	Tools	15.00	1	943001		15.00	
	14	E	8100-FG4	WATER		40	L		800.00	Water	20.00	1	943010		20.00	
	15	G							580.00	Quality Control Cost			941001			

Entry 1 from 16 INR 10,160.00

MB1A-Goods Issue



Enter Goods Issue: Collective Processing

To Reservation... To Order...

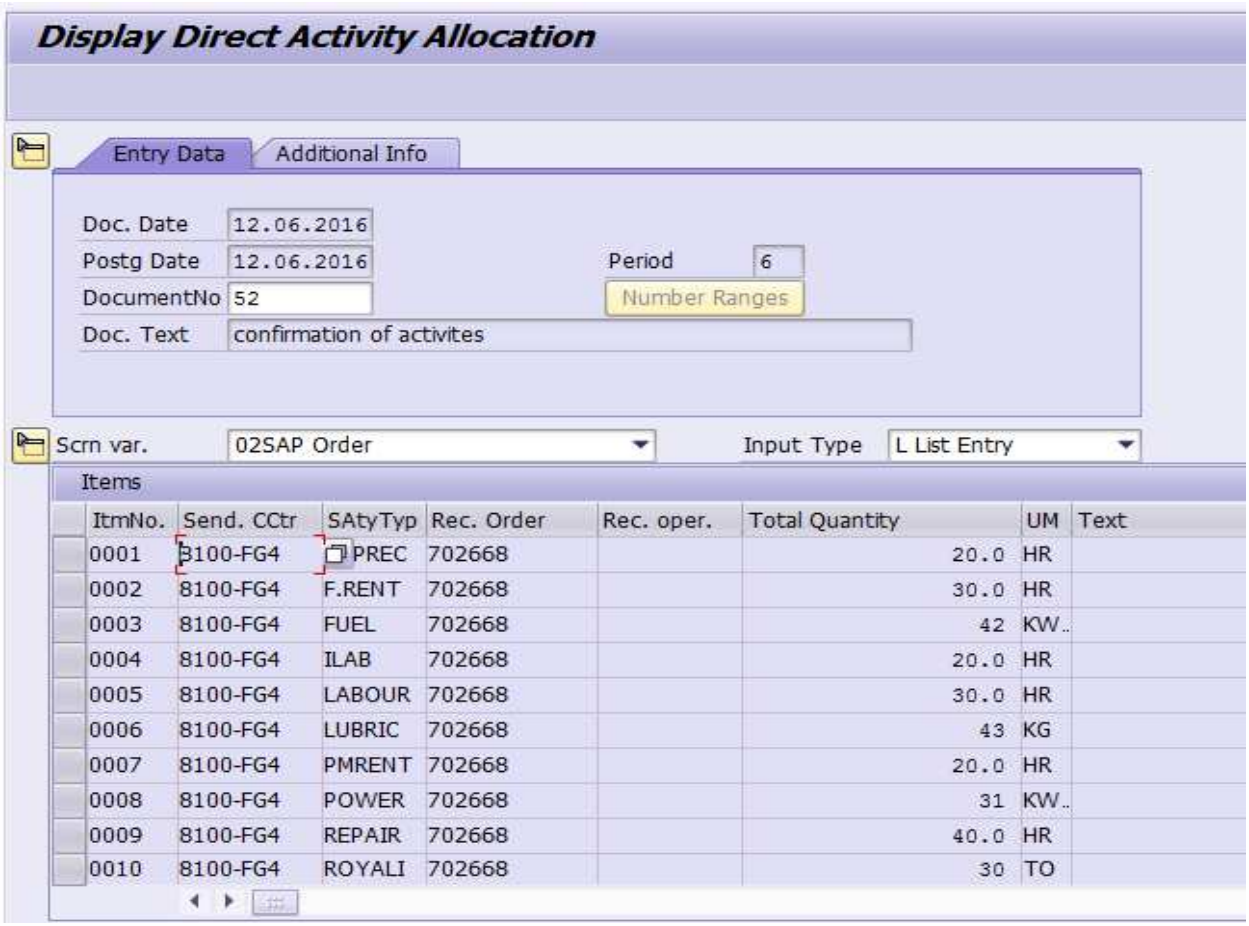
Movement Type 261 GI for order
Business Area
Cost Center
Order 702668 8100-FG4-CO Production Order Creation

More

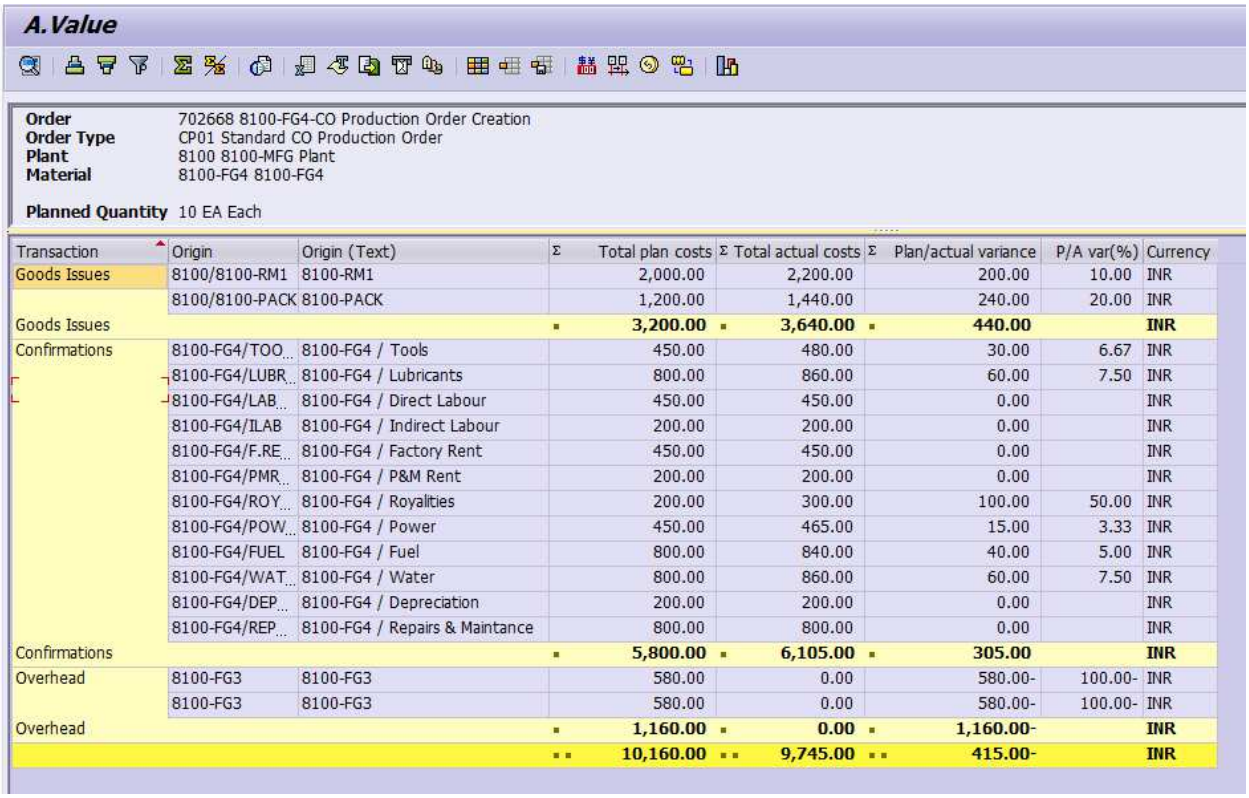
Items

F	Item	Material	Quantity	UnE	SLoc	Batch	Re	Plnt
	1	8100-RM1	22	EA	8100			8100
	2	8100-PACK	12	EA	8100			8100
	3				8100			8100
	4				8100			8100
	5				8100			8100

KB21N-Activties Confirmation



KKF3-CO-Production Order Display



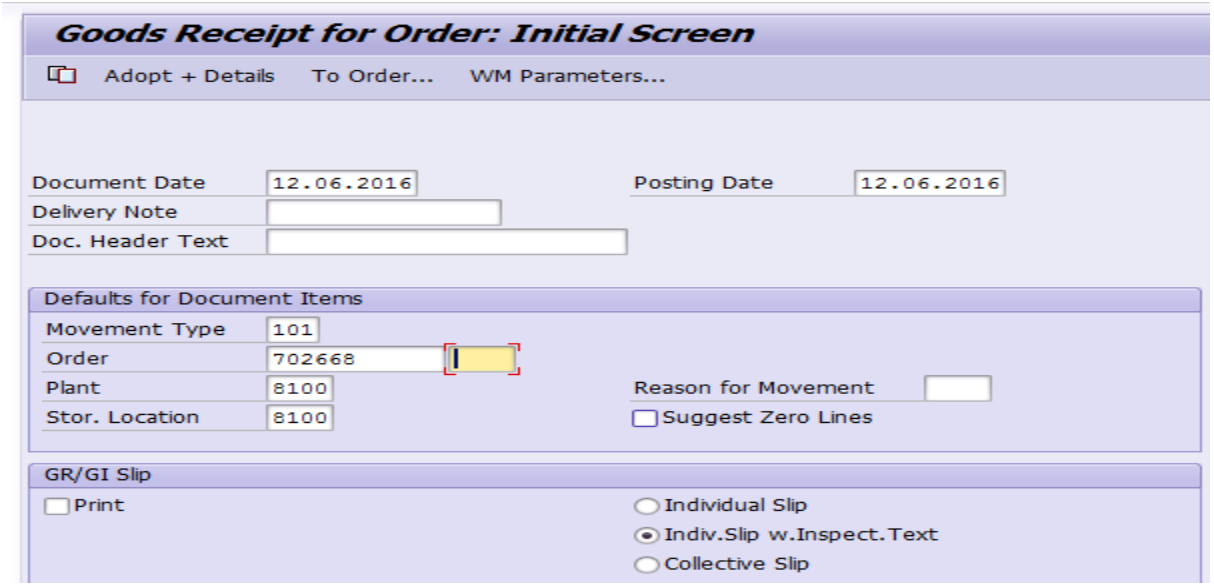
A.Value

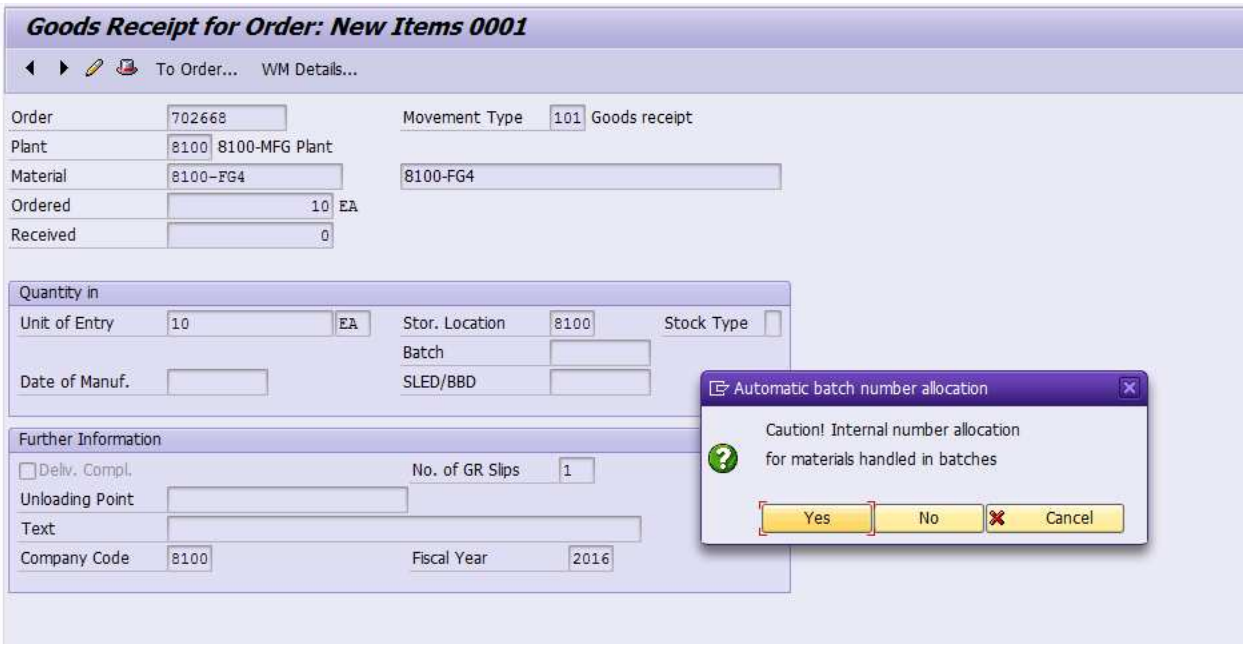
Order	702668 8100-FG4-CO Production Order Creation
Order Type	CP01 Standard CO Production Order
Plant	8100 8100-MFG Plant
Material	8100-FG4 8100-FG4
Planned Quantity	10 EA Each

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,200.00	200.00	10.00	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**3,200.00**	**3,640.00**	**440.00**		**INR**
Confirmations	8100-FG4/TOO...	8100-FG4 / Tools	450.00	480.00	30.00	6.67	INR
	8100-FG4/LUBR...	8100-FG4 / Lubricants	800.00	860.00	60.00	7.50	INR
	8100-FG4/LAB...	8100-FG4 / Direct Labour	450.00	450.00	0.00		INR
	8100-FG4/ILAB	8100-FG4 / Indirect Labour	200.00	200.00	0.00		INR
	8100-FG4/F.RE...	8100-FG4 / Factory Rent	450.00	450.00	0.00		INR
	8100-FG4/PMR...	8100-FG4 / P&M Rent	200.00	200.00	0.00		INR
	8100-FG4/ROY...	8100-FG4 / Royalities	200.00	300.00	100.00	50.00	INR
	8100-FG4/POW...	8100-FG4 / Power	450.00	465.00	15.00	3.33	INR
	8100-FG4/FUEL	8100-FG4 / Fuel	800.00	840.00	40.00	5.00	INR
	8100-FG4/WAT...	8100-FG4 / Water	800.00	860.00	60.00	7.50	INR
	8100-FG4/DEP...	8100-FG4 / Depreciation	200.00	200.00	0.00		INR
	8100-FG4/REP...	8100-FG4 / Repairs & Maintance	800.00	800.00	0.00		INR
Confirmations			**5,800.00**	**6,105.00**	**305.00**		**INR**
Overhead	8100-FG3	8100-FG3	580.00	0.00	580.00-	100.00-	INR
	8100-FG3	8100-FG3	580.00	0.00	580.00-	100.00-	INR
Overhead			**1,160.00**	**0.00**	**1,160.00-**		**INR**
			10,160.00	**9,745.00**	**415.00-**		**INR**

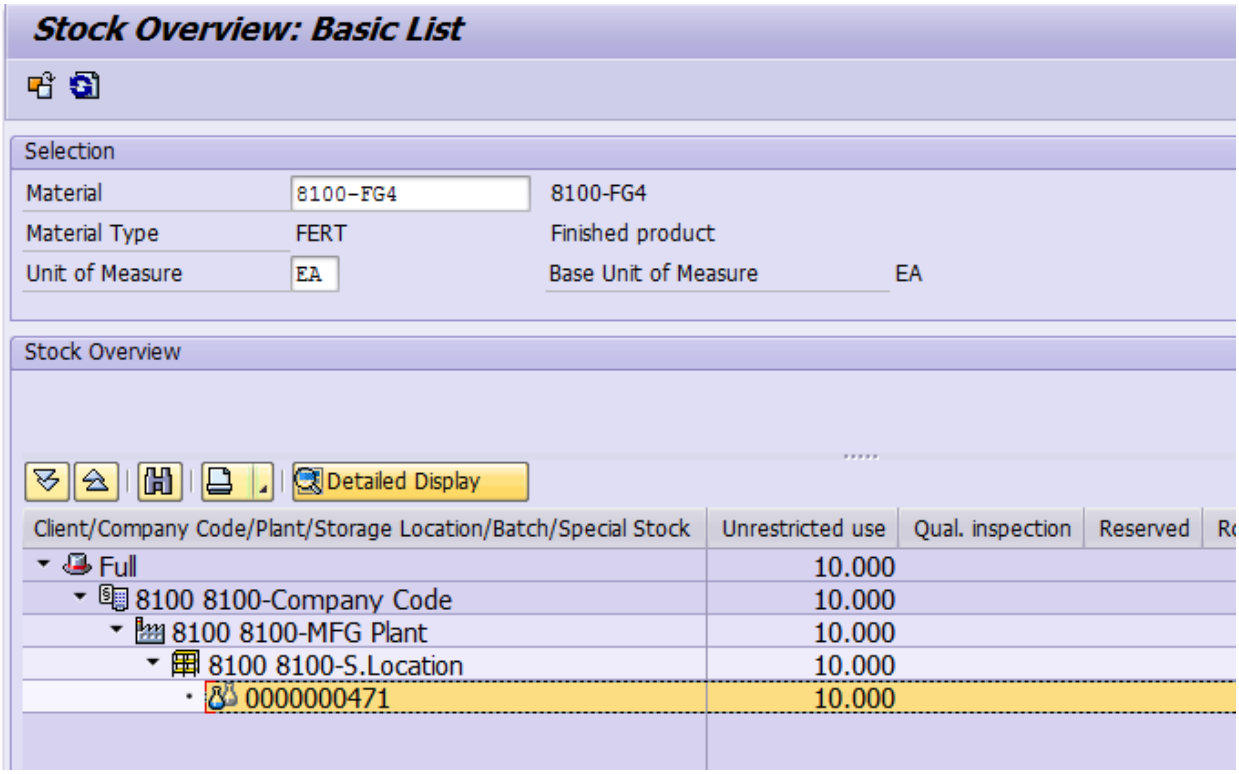
Until Goods Receipt happen, plan Goods receipt line also will not come

MB31-Goods Receipt



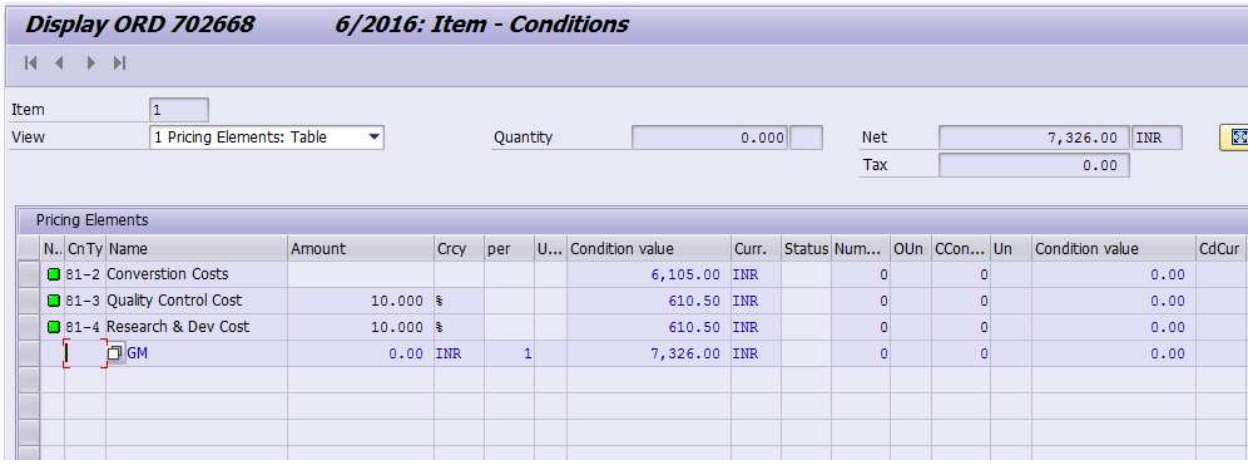


Stock Display

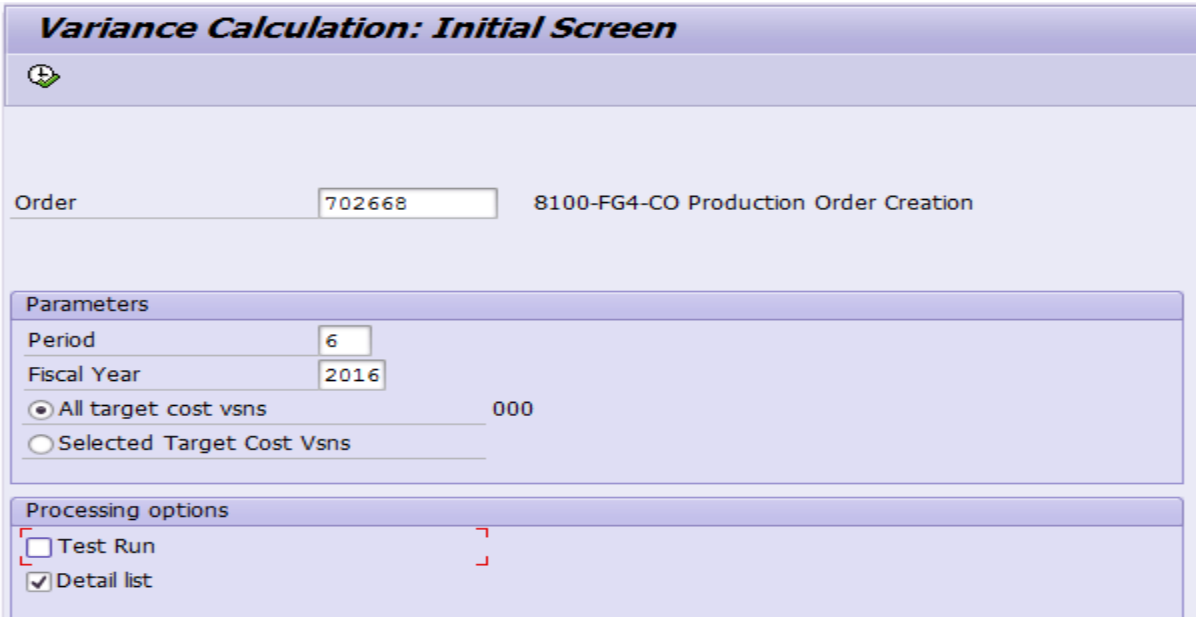


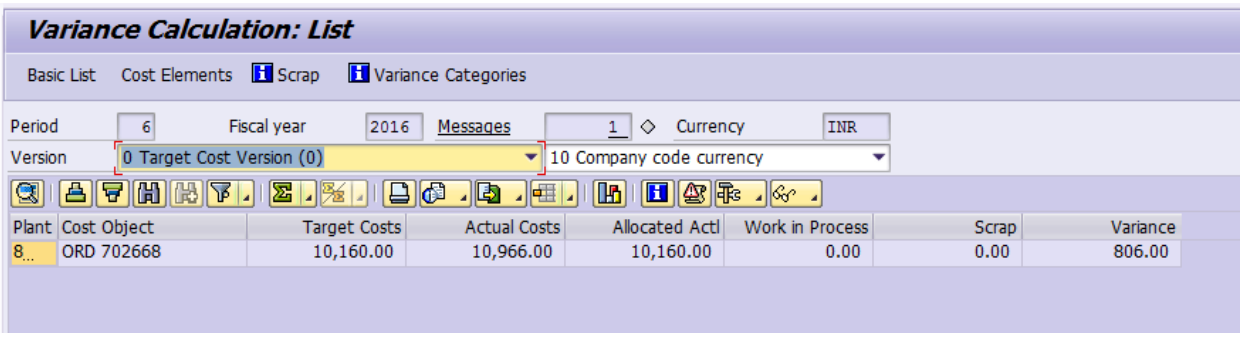
Reaming Steps are Template allocation, Overhead calculation, variance & settlement process same

KGI2-Overhead Calculation



KKS2-Variance Calculation





KO88-Settlement

Actual Settlement: Order

Settlement Rule

Order 702668

Parameters

Settlement period	6	Posting period	
Fiscal Year	2016	Asset value date	
Processing type	1 Automatic		

Processing Options

- [ ] Test Run
- [x] Check trans. data

Actual Settlement: Order Detail list

Basic list | Sender | Receiver | Settlement rule | Save | Select

Detail list - Settled values

Senders	Short text: Sender	Receivers	ValCOArCur	Inform.
ORD 702668	8100-FG4-CO Production Order Creation	MAT 8100/8100-FG4	806.00	
		PSG 0000000019	806.00	Variances

CO03-Cost Trend

A.Value

Order 702668 8100-FG4-CO Production Order Creation
Order Type CP01 Standard CO Production Order
Plant 8100 8100-MFG Plant
Material 8100-FG4 8100-FG4

Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Confirmations	8100-FG4/ROY...	8100-FG4 / Royalities	200.00	300.00	100.00	50.00	INR
	8100-FG4/POW...	8100-FG4 / Power	450.00	465.00	15.00	3.33	INR
	8100-FG4/FUEL	8100-FG4 / Fuel	800.00	840.00	40.00	5.00	INR
	8100-FG4/WAT...	8100-FG4 / Water	800.00	860.00	60.00	7.50	INR
	8100-FG4/DEP...	8100-FG4 / Depreciation	200.00	200.00	0.00		INR
	8100-FG4/REP...	8100-FG4 / Repairs & Maintance	800.00	800.00	0.00		INR
Confirmations			**5,800.00**	**6,105.00**	**305.00**		**INR**
Overhead	8100-FG3	8100-FG3	580.00	610.50	30.50	5.26	INR
	8100-FG3	8100-FG3	580.00	610.50	30.50	5.26	INR
Overhead			**1,160.00**	**1,221.00**	**61.00**		**INR**
Goods Receipt	8100/8100-FG4	8100-FG4	0.00	10,160.00-	10,160.00-		INR
Goods Receipt			**0.00**	**10,160.00-**	**10,160.00-**		**INR**
Settlement		(without origin)	0.00	806.00-	806.00-		INR
Settlement			**0.00**	**806.00-**	**806.00-**		**INR**
			10,160.00	**0.00**	**10,160.00-**		**INR**

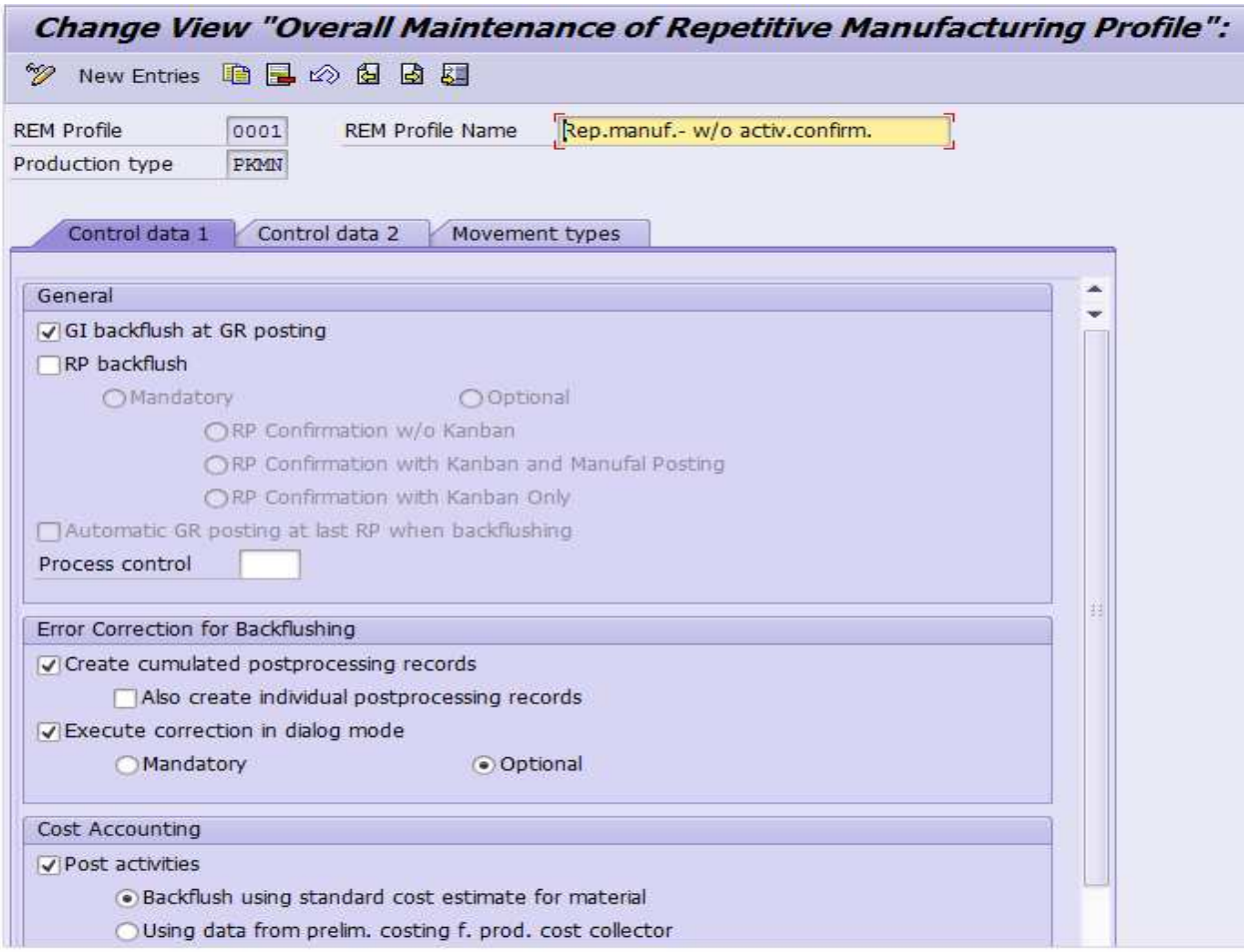
Process Costing- Product Cost By Period

Repetitive mfg process

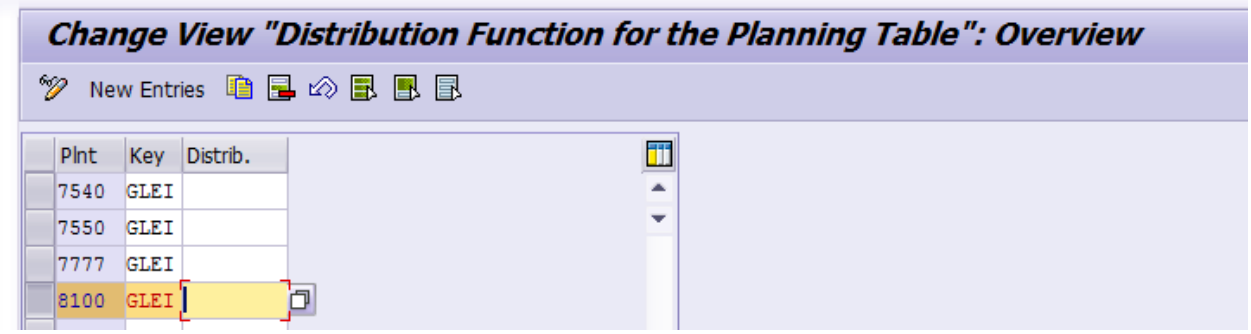
1). without reporting points consideration

Configuration

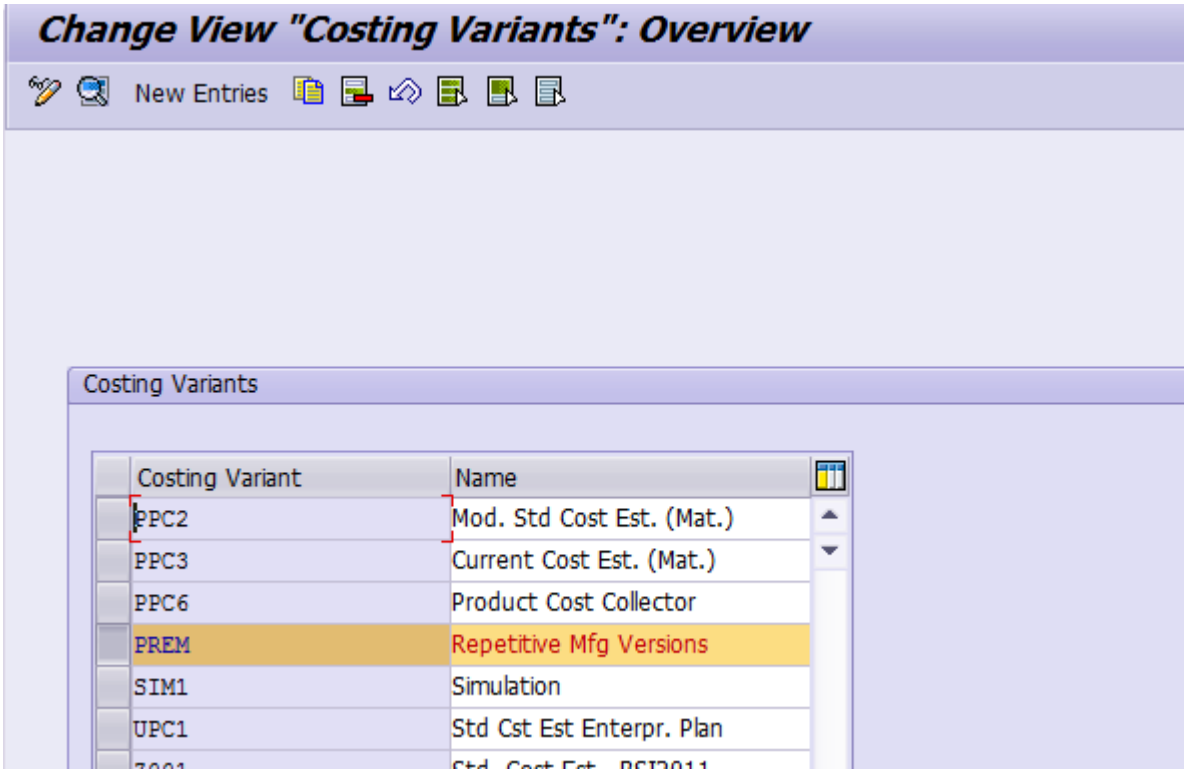
Define Repetitive Manufacturing Profiles-OSP2



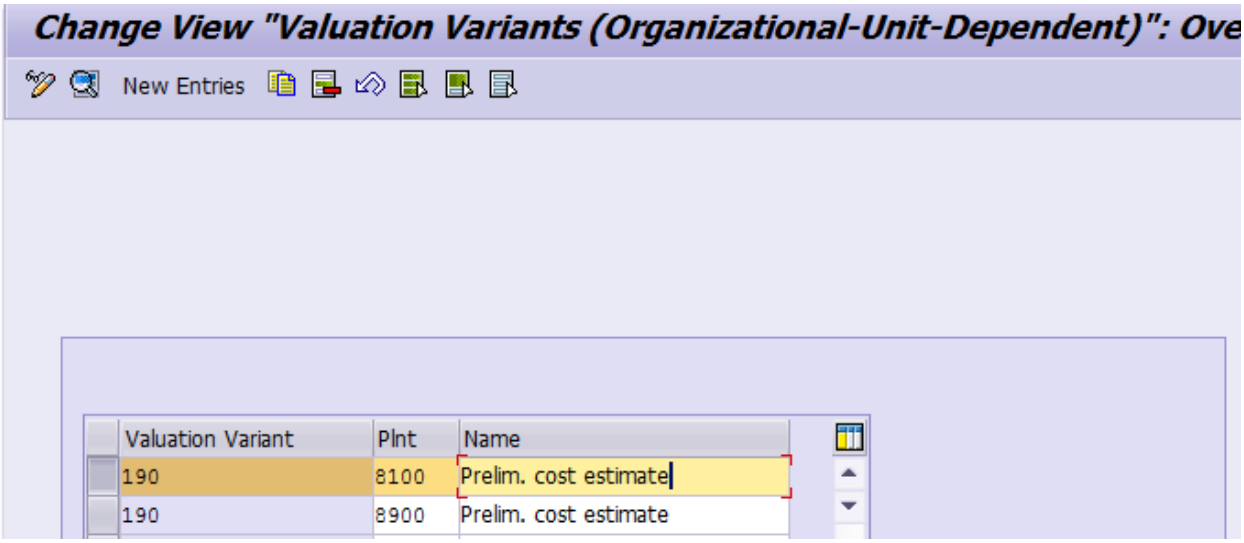
Maintain Distribution for Planning Table-OSP4



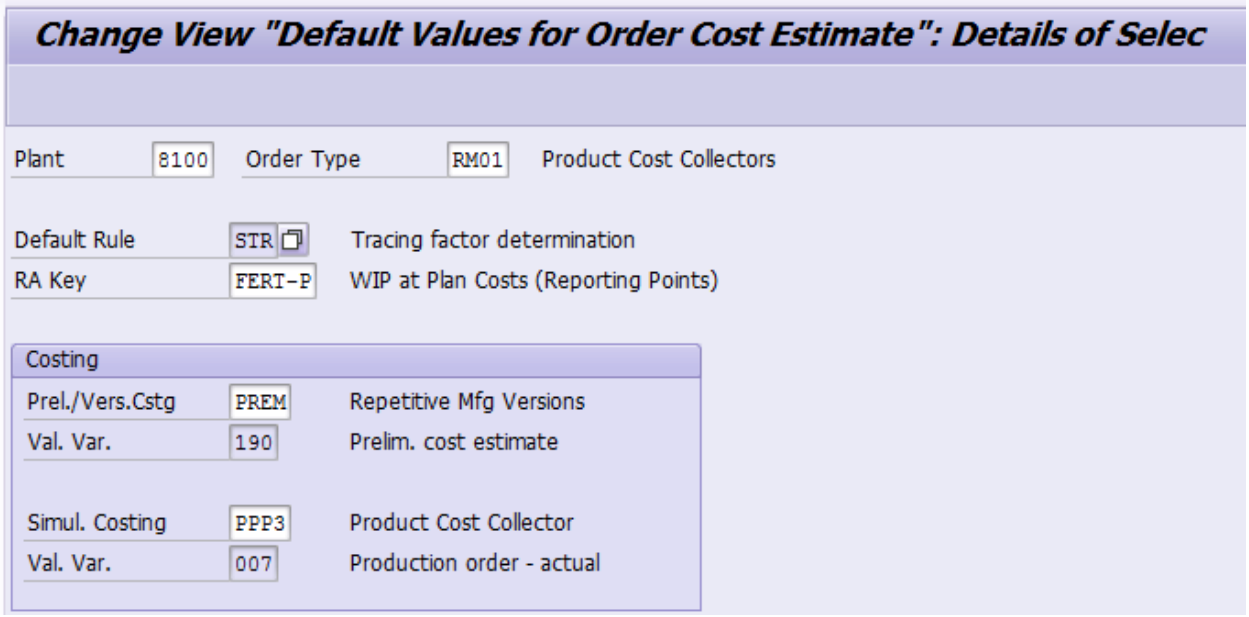
Check Costing Variants for Product Cost Collectors-OPL1



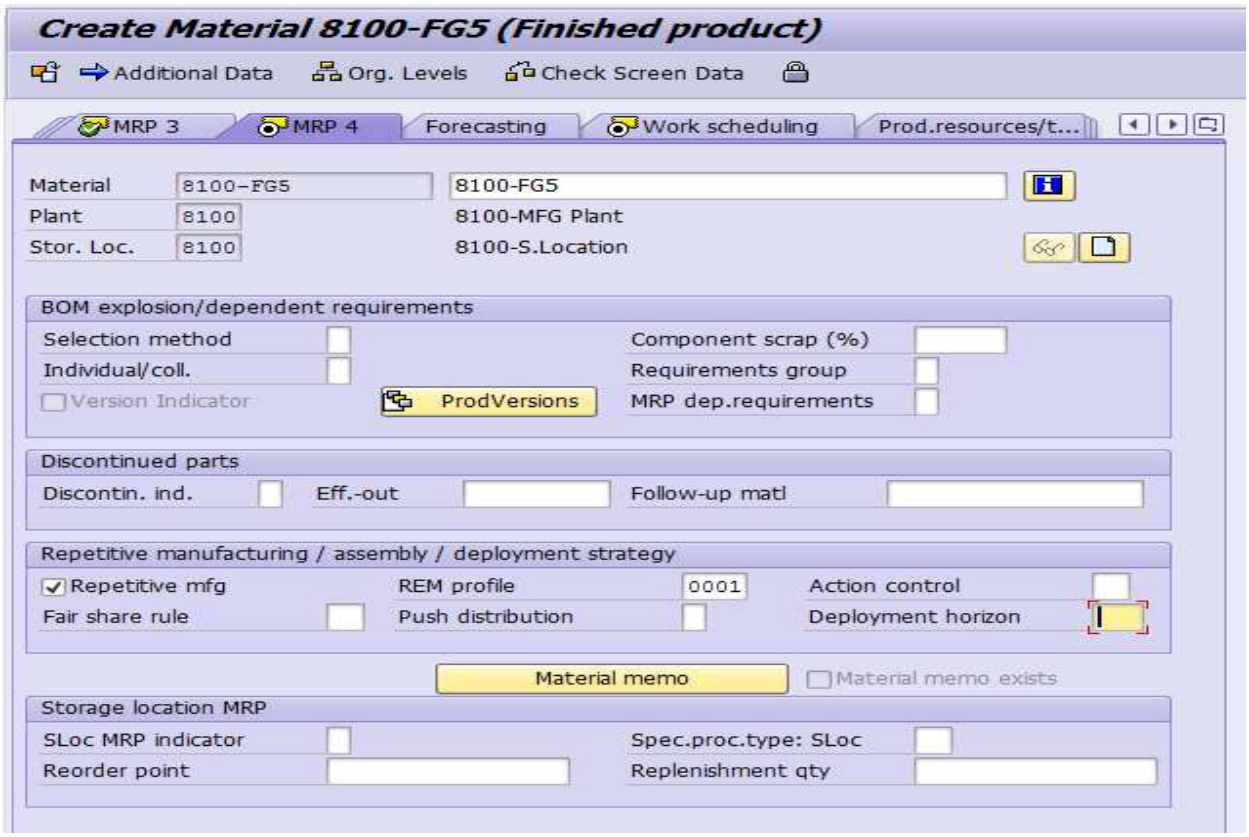
Valuation variant 190



Define Cost-Accounting-Relevant Default Values for Order Types and Plants-OKZ3



MM01- Material Master Creation



KP26

Display Activity Type/Price Planning: Overview Screen

Line items

Version	0	Plan/Act - Version	
Period	6	To	6
Fiscal Year	2016		
Cost Center	8100-FG5	8100-FG5	

Activi...	Plan activity	Dis...	Capacity		U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...
DEPREC	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943011
F.RENT	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943005
FUEL	0	1	0	1	KWH	20.00	0.00	00001	1			943009
ILAB	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943004
LABOUR	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943003
LUBRIC	0	1	0	1	KG	20.00	0.00	00001	1			943002
PMRENT	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943006
POWER	0	1	0	1	KWH	15.00	0.00	00001	1			943008
REPAIR	0.0	1	0.0	1	HR	20.00	0.00	00001	1			943012
ROYALI	0	1	0	1	TO	10.00	0.00	00001	1			943007
TOOLS	0	1	0	1	KG	15.00	0.00	00001	1			943001
WATER	0	1	0	1	L	20.00	0.00	00001	1			943010

Work Center Master data –CR01

Display Work Center: Cost Center Assignment

HRMS Hierarchy

Plant	8100	8100-MFG Plant
Work center	8100-FG5	8100-FG5

Basic Data | Default Values | Capacities | Scheduling | Costing

Validity

Start date	13.06.2016	End Date	31.12.9999

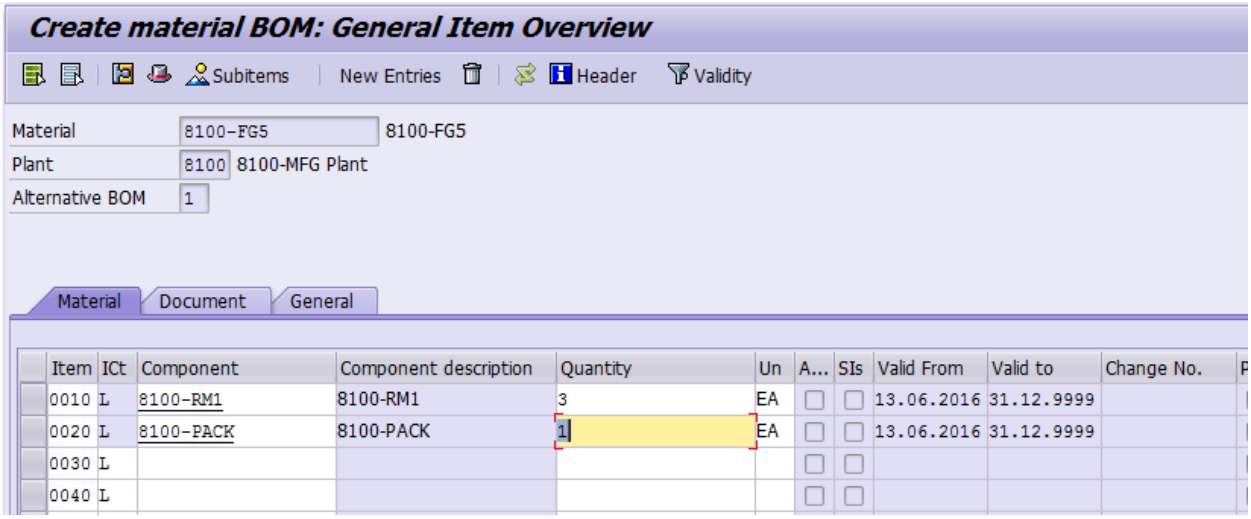
Link to cost center/activity types

Controlling Area	8100	8100-Company Code
Cost Center	8100-FG5	8100-FG5

Activities Overview

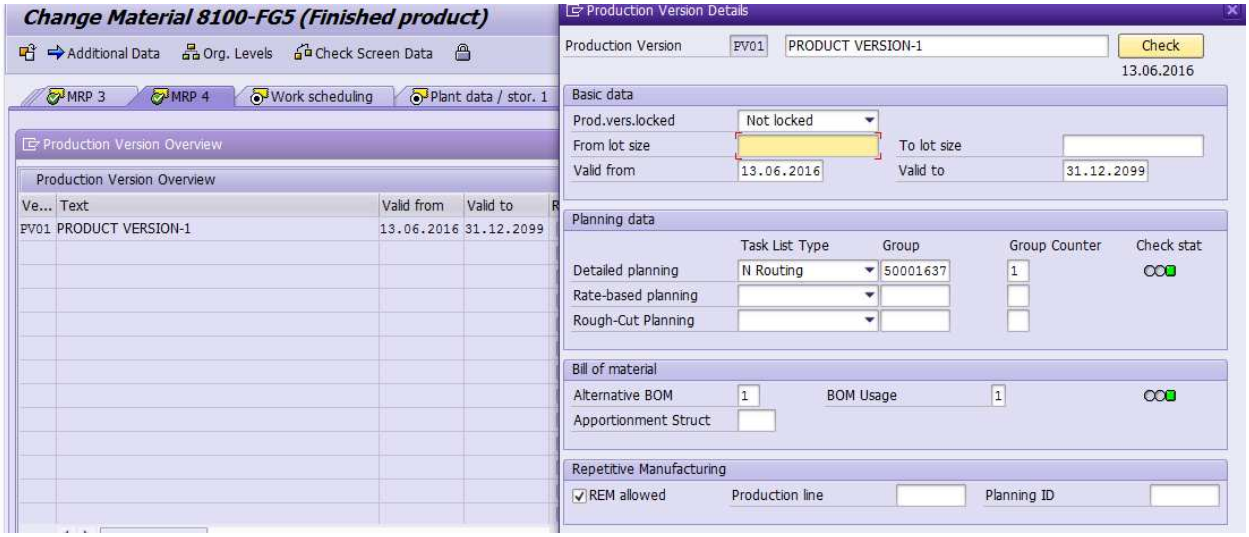
Alt. activity descr.	Activity Type	Activity Unit	R...	Form...	Formula description
Machine Hr	DEPREC	HR		8881	Machine HR
Labor Hr	LABOUR	HR		8882	Labor HR
Power KWH	POWER	KWH		8883	Power KWH
Fuel kwh	FUEL	KWH		8884	Fuel Kwh
Water L	WATER	L		8885	Water L

Bill of Material Creation-CS01

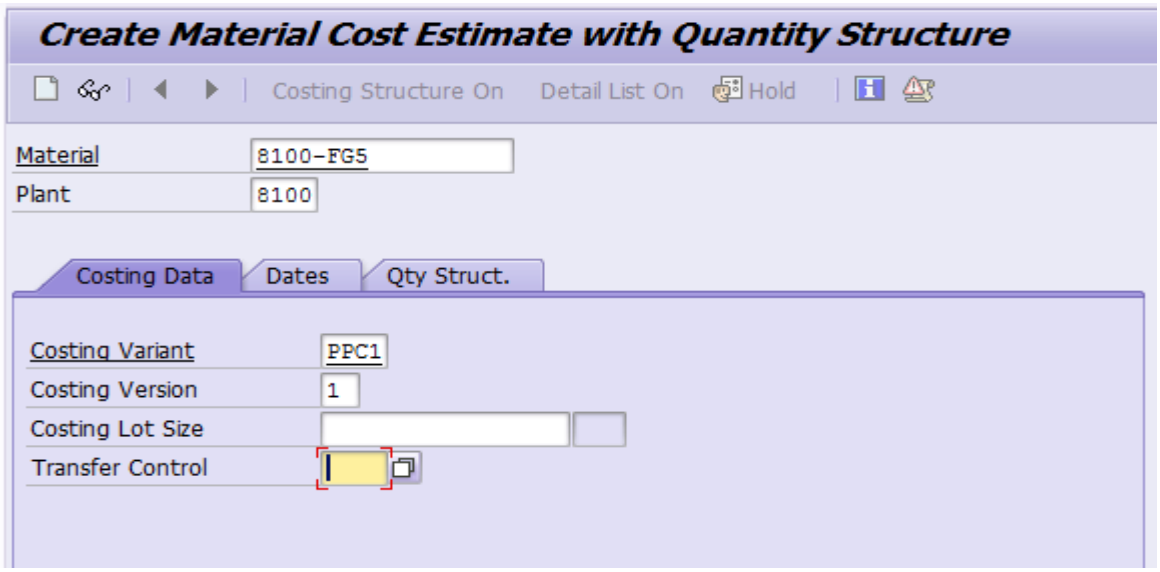


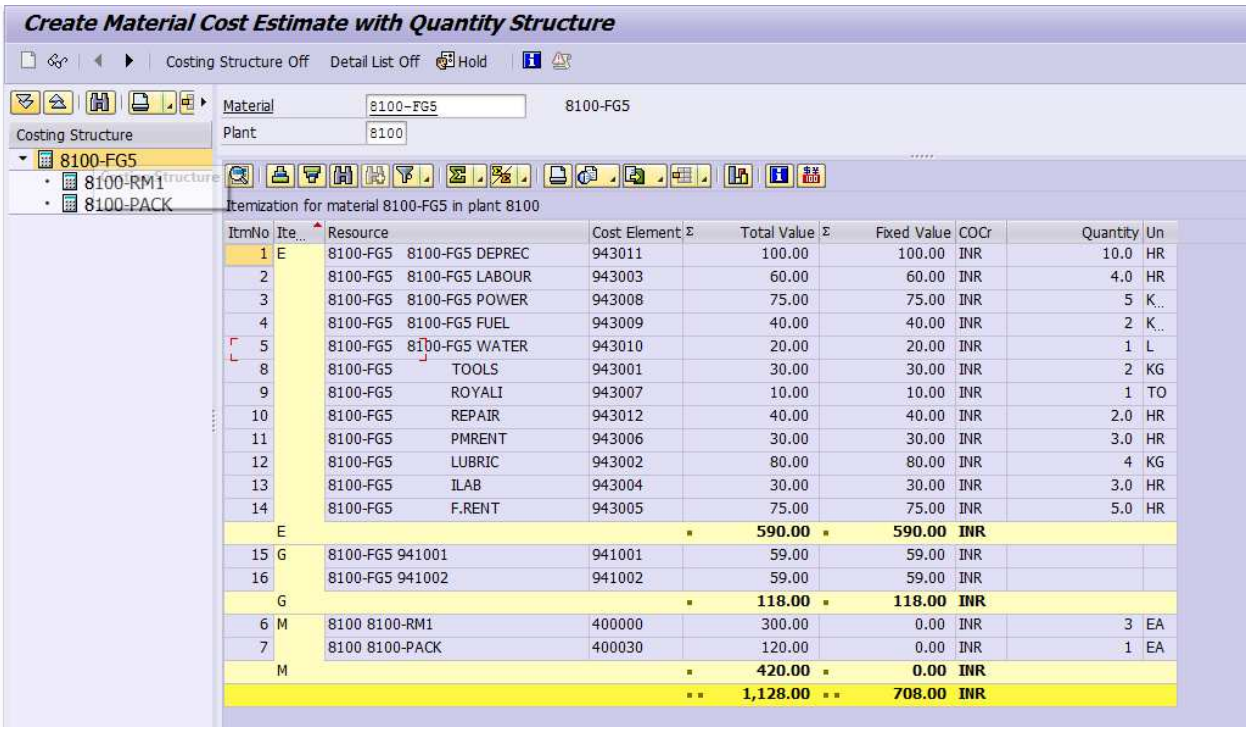
Routing Creation-CA01

Production Version mapping Material Master-MM02

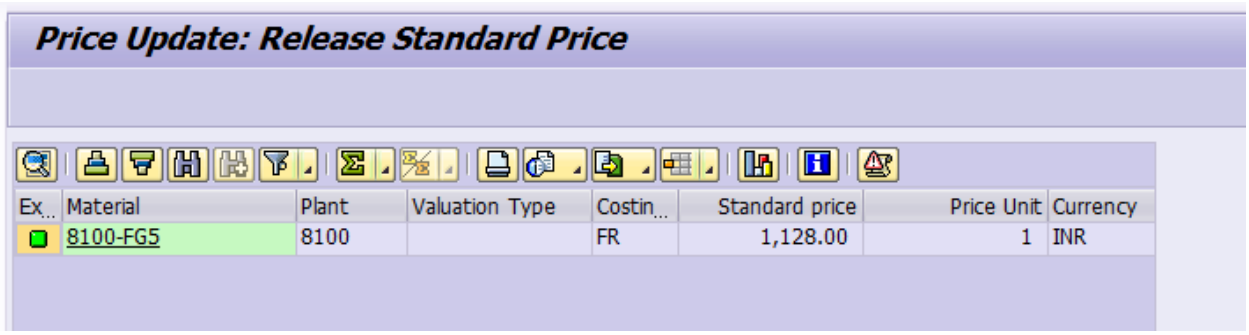


Cost estimation with Qty strcture-CK11N

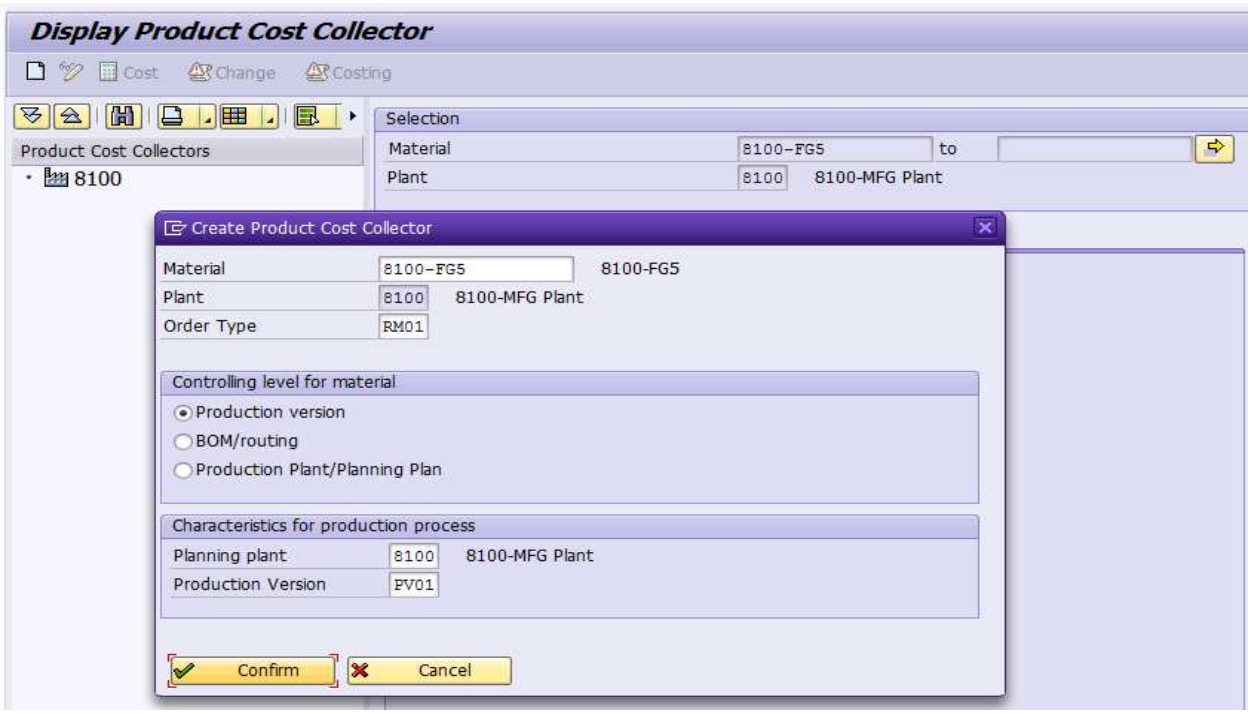




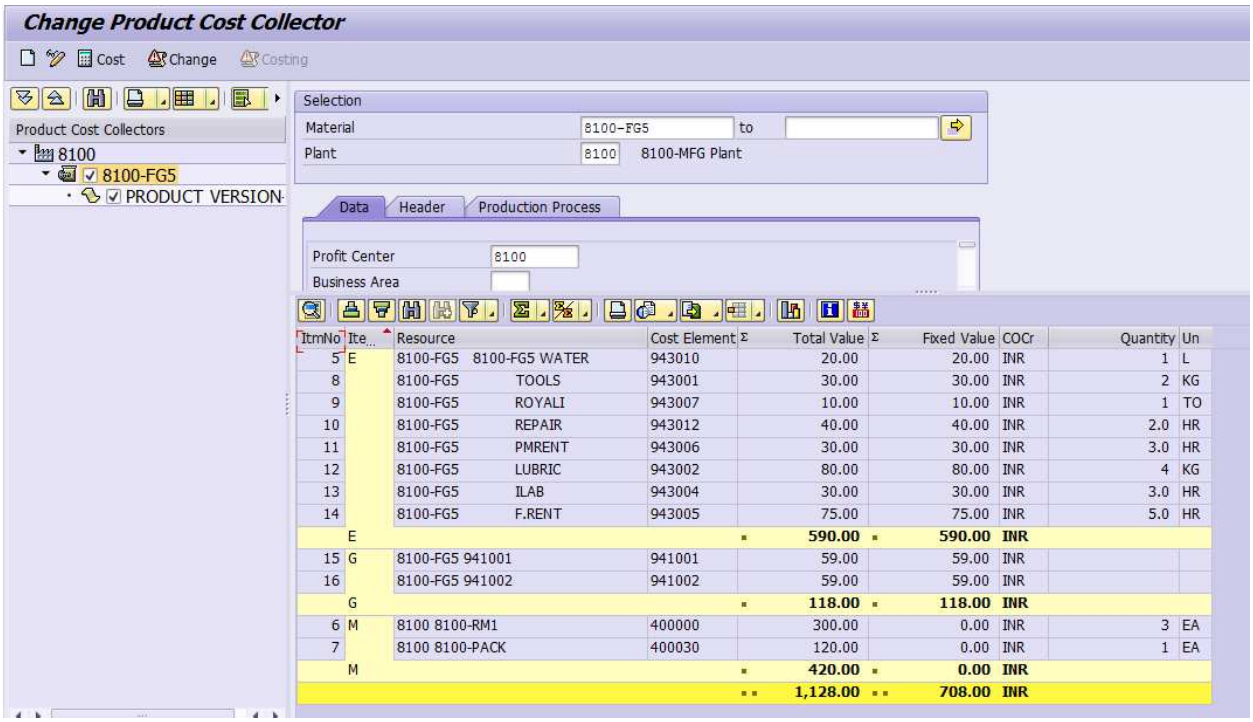
Marking and Release-CK24



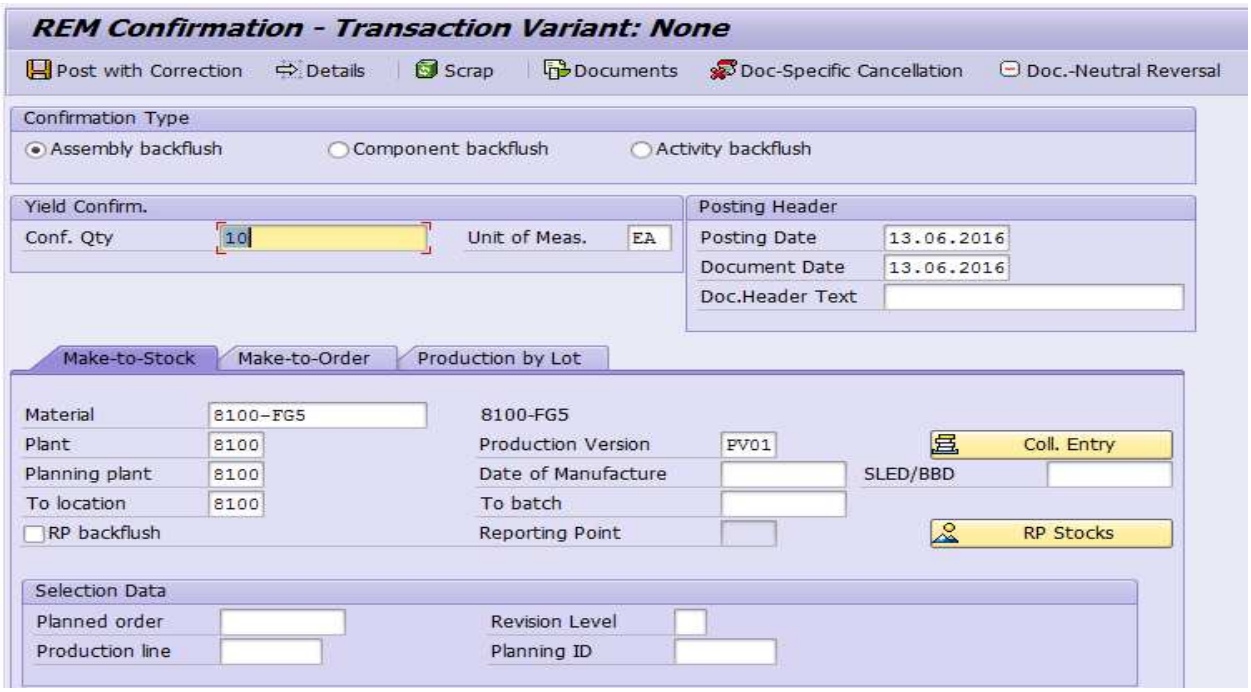
Product Cost Collector Creation-KKF6N


Display Product Cost Collector
Cost
Change
Costing
Selection
Material
8100-FG5
to
Plant
8100
8100-MFG Plant
Product Cost Collectors
8100
Create Product Cost Collector
Material
8100-FG5
8100-FG5
Plant
8100
8100-MFG Plant
Order Type
RM01
Controlling level for material
Production version
BOM/routing
Production Plant/Planning Plan
Characteristics for production process
Planning plant
8100
8100-MFG Plant
Production Version
PV01
Confirm
Cancel

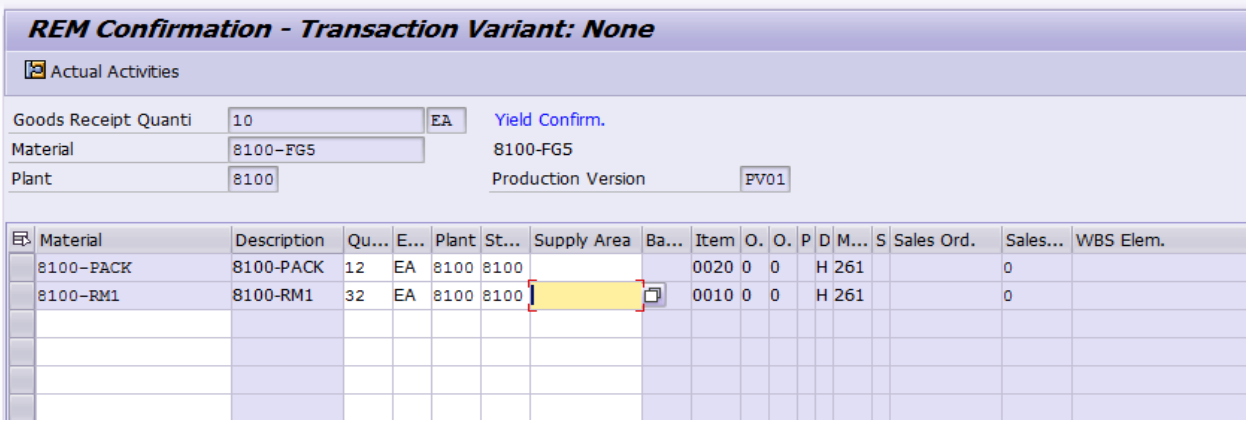
Create Product Cost Collector
Cost
Change
Costing
Selection
Material
8100-FG5
to
Plant
8100
8100-MFG Plant
Product Cost Collectors
8100
8100-FG5
PRODUCT VERSION-1
Data
Header
Production Process
Profit Center
8100
Create product cost collector
Create a preliminary cost estimate
for the product cost collector?
Yes
No
Cancel
petitive Mfg Versions
oduct Cost Collector
8100 Costing Sheet
8100-OH Key
Results Analysis Key
FERT-P
WIP at Plan Costs (Reportin...
Variance Key
8100
8100
1 Product cost collectors selected

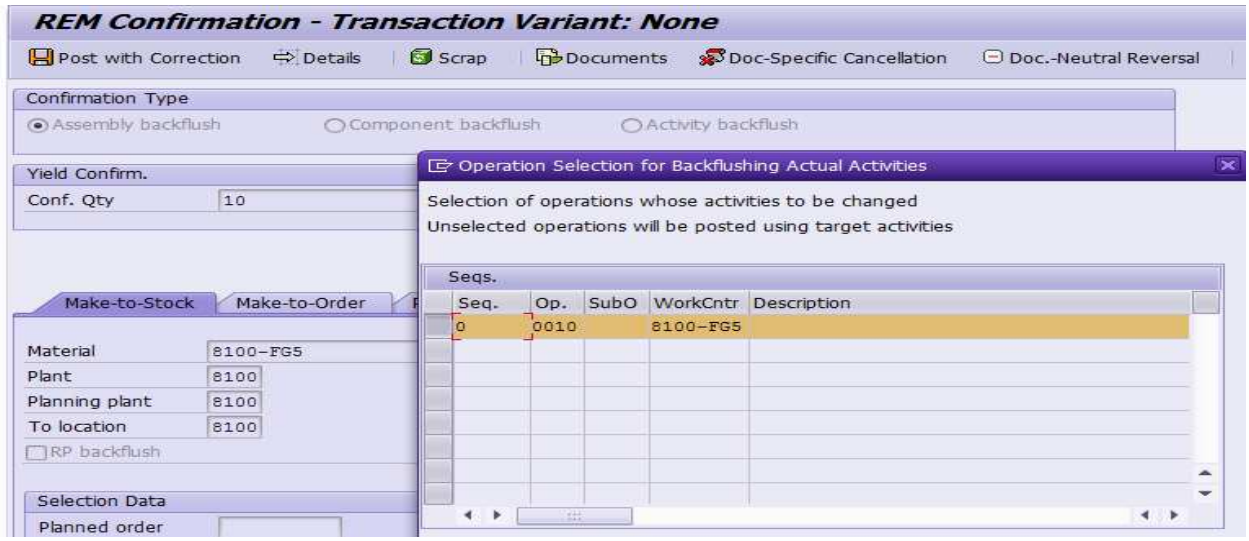


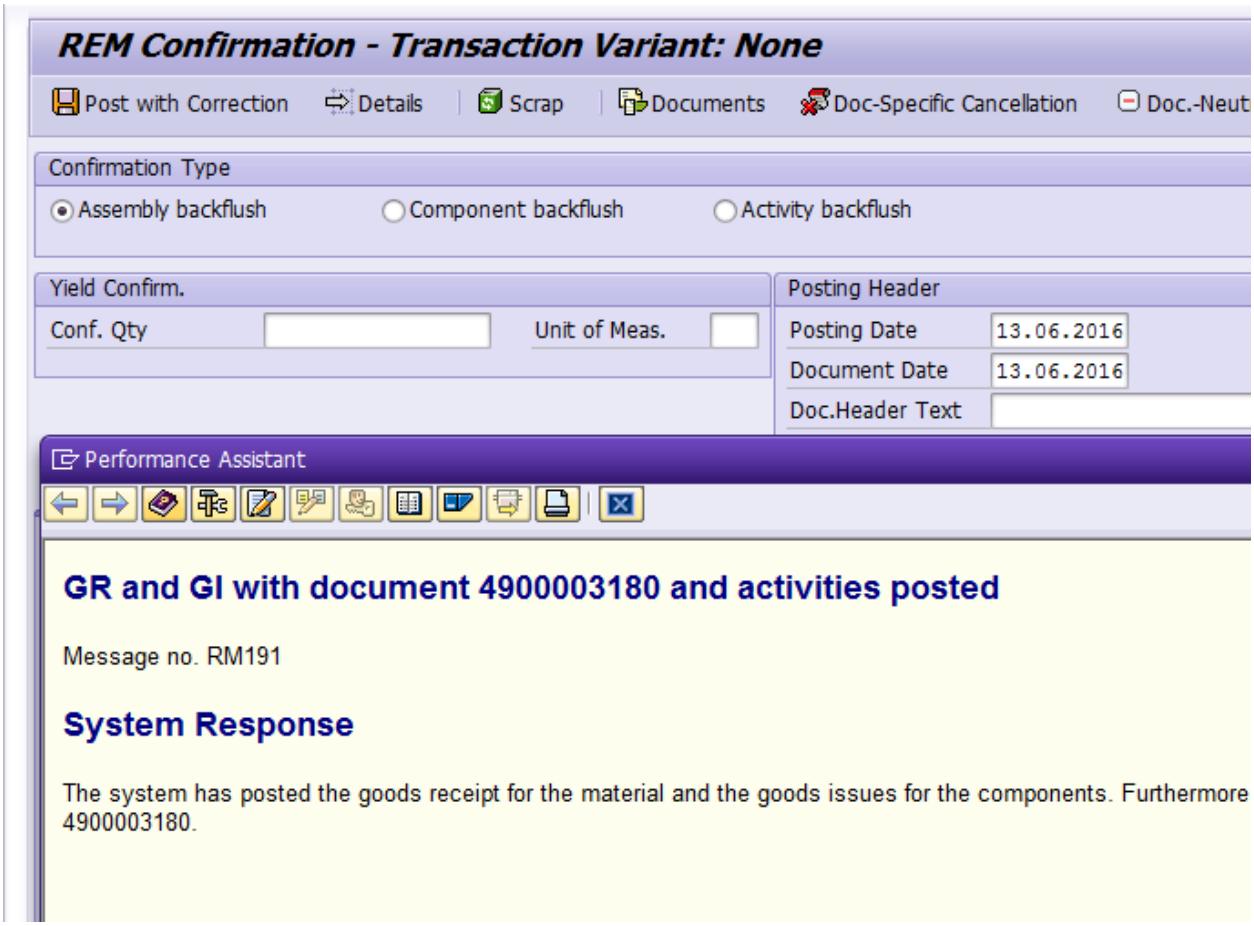
Production Confirmation through Back Flush-MFBF



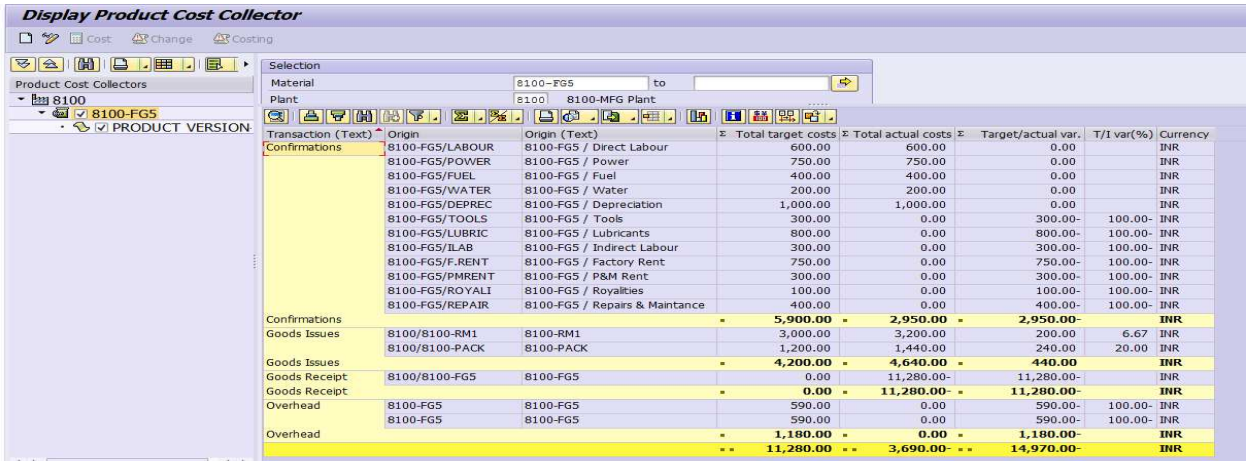
Components issue







KKF6N



Transaction (Text)	Origin	Origin (Text)	Total target costs	Total actual costs	Target/actual var.	T/I var(%)	Currency
Confirmations	8100-FG5/LABOUR	8100-FG5 / Direct Labour	600.00	600.00	0.00		INR
	8100-FG5/POWER	8100-FG5 / Power	750.00	750.00	0.00		INR
	8100-FG5/FUEL	8100-FG5 / Fuel	400.00	400.00	0.00		INR
	8100-FG5/WATER	8100-FG5 / Water	200.00	200.00	0.00		INR
	8100-FG5/DEPREC	8100-FG5 / Depreciation	1,000.00	1,000.00	0.00		INR
	8100-FG5/TOOLS	8100-FG5 / Tools	300.00	0.00	300.00-	100.00-	INR
	8100-FG5/LUBRIC	8100-FG5 / Lubricants	800.00	0.00	800.00-	100.00-	INR
	8100-FG5/ILAB	8100-FG5 / Indirect Labour	300.00	0.00	300.00-	100.00-	INR
	8100-FG5/F.RENT	8100-FG5 / Factory Rent	750.00	0.00	750.00-	100.00-	INR
	8100-FG5/PMRENT	8100-FG5 / P&M Rent	300.00	0.00	300.00-	100.00-	INR
	8100-FG5/ROYALI	8100-FG5 / Royalities	100.00	0.00	100.00-	100.00-	INR
	8100-FG5/REPAIR	8100-FG5 / Repairs & Maintance	400.00	0.00	400.00-	100.00-	INR
Confirmations			**5,900.00**	**2,950.00**	**2,950.00-**		**INR**
Goods Issues	8100/8100-RM1	8100-RM1	3,000.00	3,200.00	200.00	6.67	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**4,200.00**	**4,640.00**	**440.00**		**INR**
Goods Receipt	8100/8100-FG5	8100-FG5	0.00	11,280.00-	11,280.00-		INR
Goods Receipt			**0.00**	**11,280.00-**	**11,280.00-**		**INR**
Overhead	8100-FG5	8100-FG5	590.00	0.00	590.00-	100.00-	INR
	8100-FG5	8100-FG5	590.00	0.00	590.00-	100.00-	INR
Overhead			**1,180.00**	**0.00**	**1,180.00-**		**INR**
			11,280.00	**3,690.00-**	**14,970.00-**		**INR**

Actual Template Allocation-CPTE

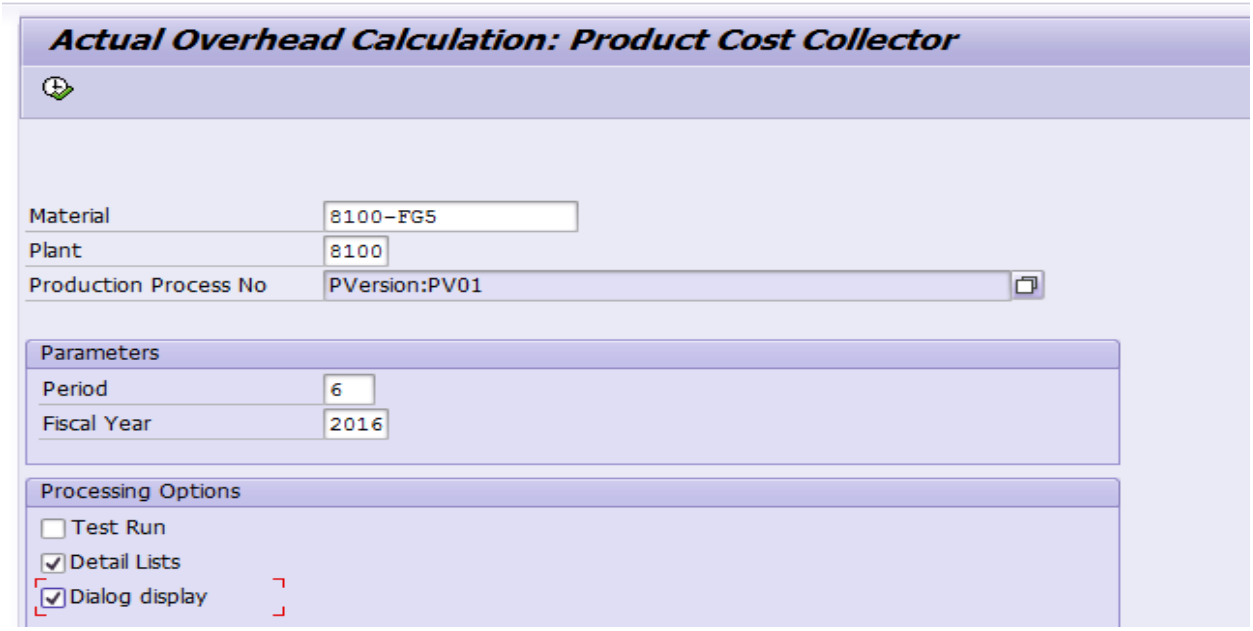
Actual Template Allocation: Product Cost Collector

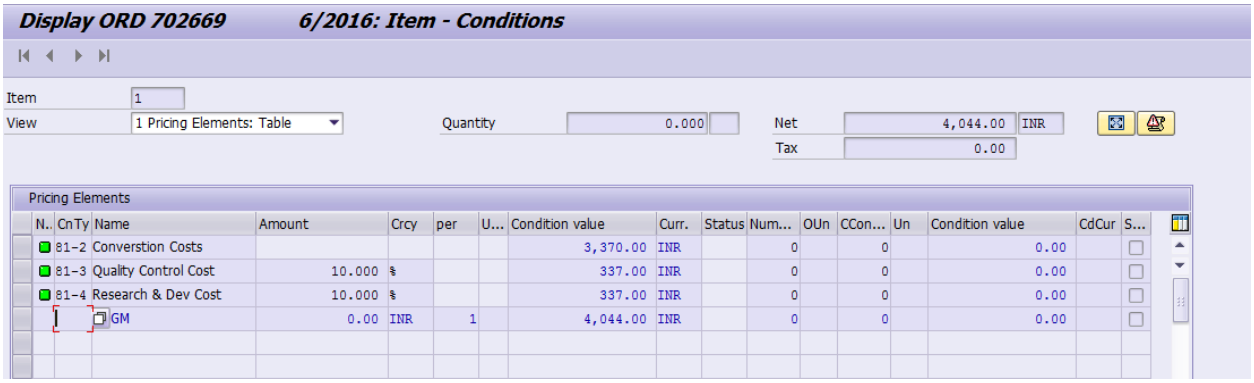
Result

Processing completed with no errors

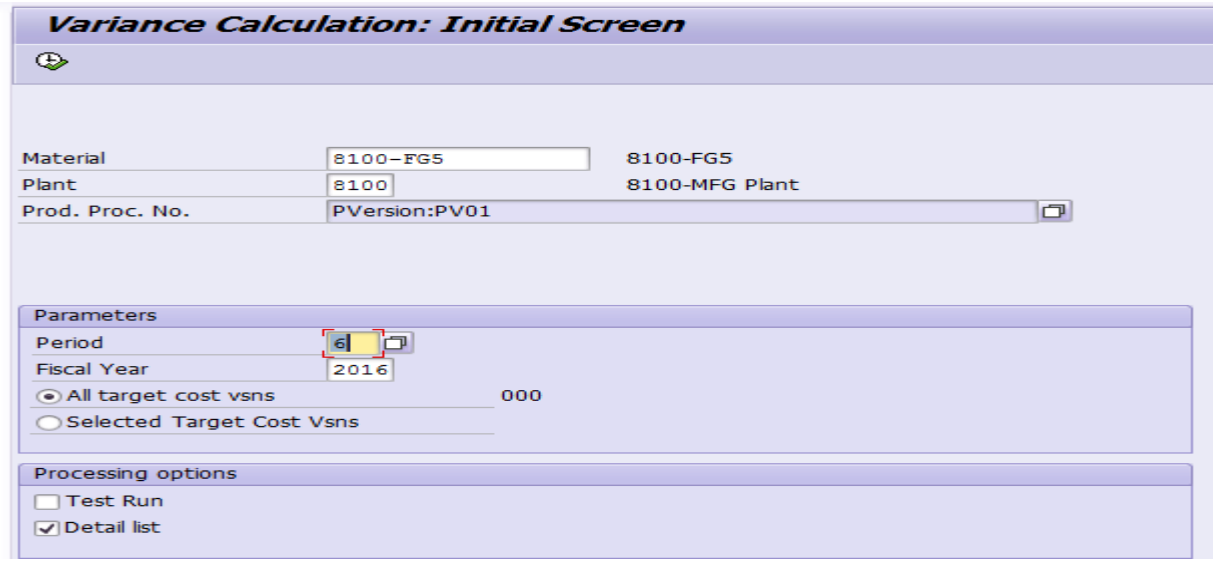
Receiver Object	Sender object	Alloc. CElem	Total fixed/var. qty	UoM	Σ Ttl Fx+Vbl value CAC	COCr	Template
ORD 702669	ATY 8100-FG5/F.RENT	943005	5.0	HR	75.00	INR	8100-FG5
	ATY 8100-FG5/ILAB	943004	4.0	HR	40.00	INR	8100-FG5
	ATY 8100-FG5/LUBRIC	943002	3	KG	60.00	INR	8100-FG5
	ATY 8100-FG5/PMRENT	943006	6.0	HR	60.00	INR	8100-FG5
	ATY 8100-FG5/REPAIR	943012	5.0	HR	100.00	INR	8100-FG5
	ATY 8100-FG5/ROYALI	943007	4	TO	40.00	INR	8100-FG5
	ATY 8100-FG5/TOOLS	943001	3	KG	45.00	INR	8100-FG5
ORD 702669					**420.00**	**INR**	
					420.00	**INR**	

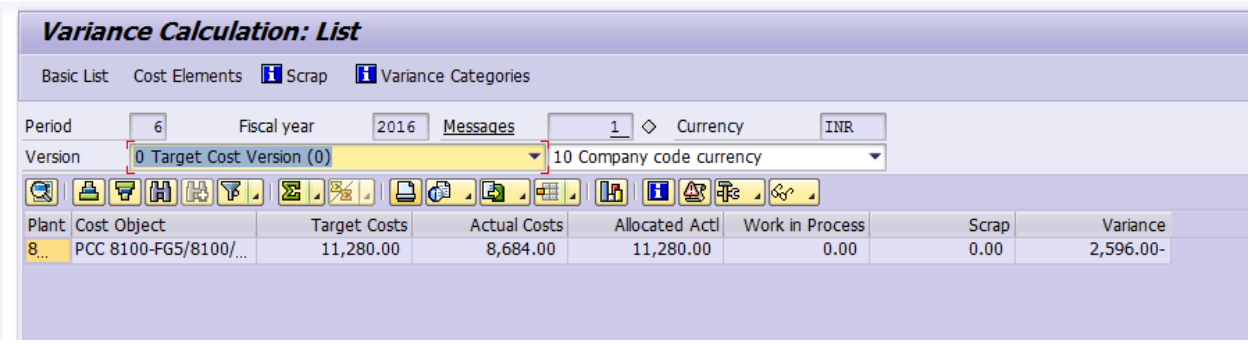
Actual OH Calculation-CO42



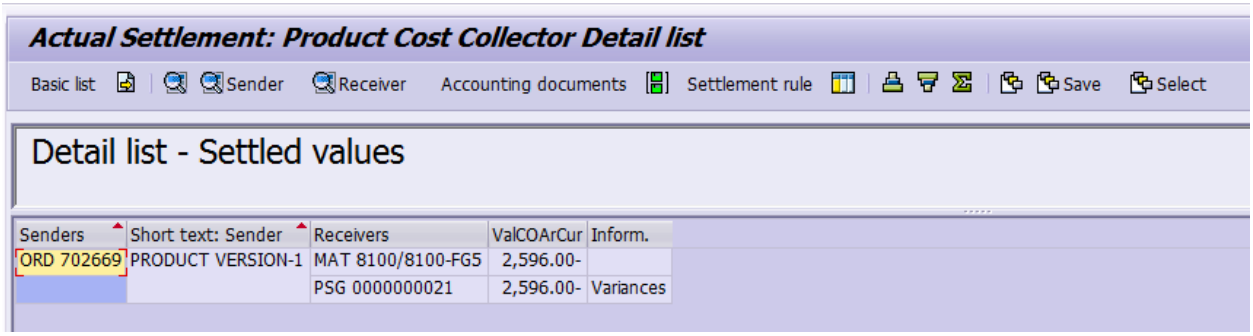


Variance Calculation-KKS6 - Individual Processing





KK87 - Individual Processing


Actual Settlement: Product Cost Collector Detail list
Basic list
Sender
Receiver
Accounting documents
Settlement rule
Save
Select
Detail list - Settled values
Senders
Short text: Sender
Receivers
ValCOArCur
Inform.
ORD 702669
PRODUCT VERSION-1
MAT 8100/8100-FG5
2,596.00-
PSG 0000000021
2,596.00-
Variances

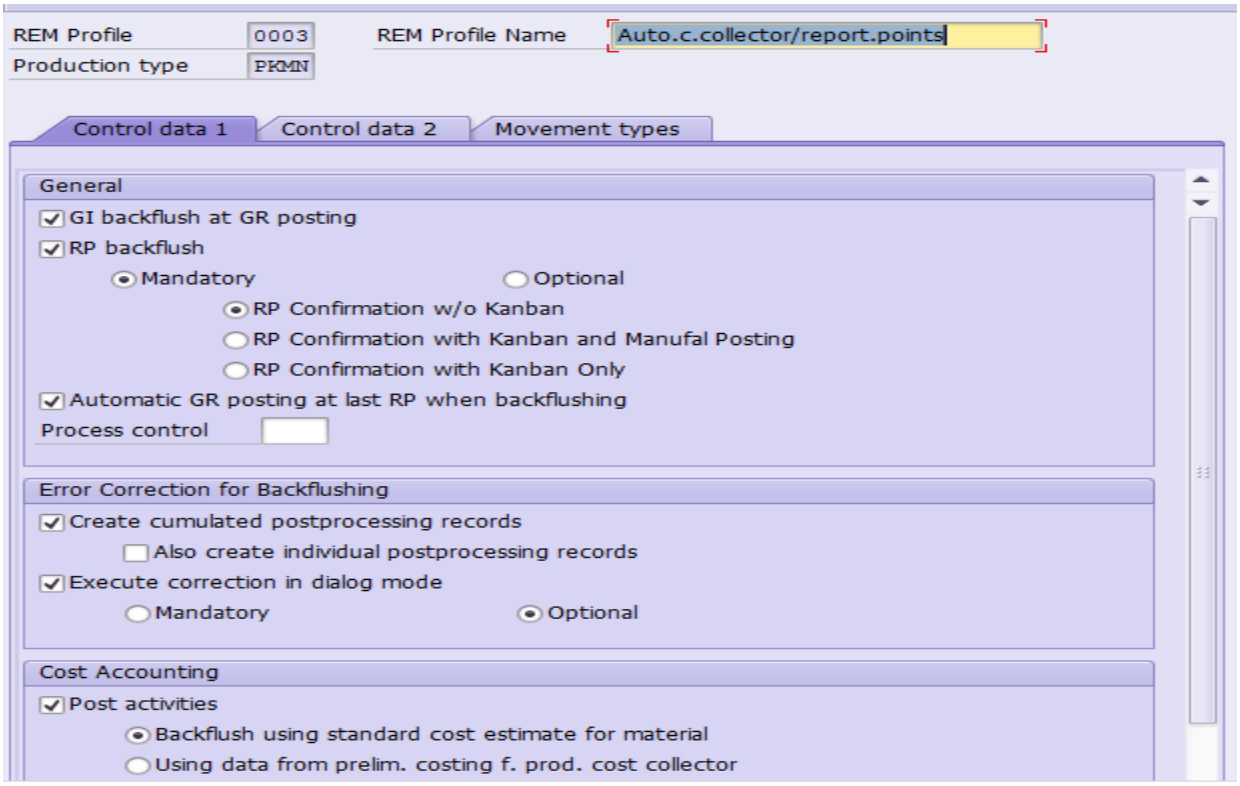
Process Costing- Product Cost By Period

Repetitive mfg process

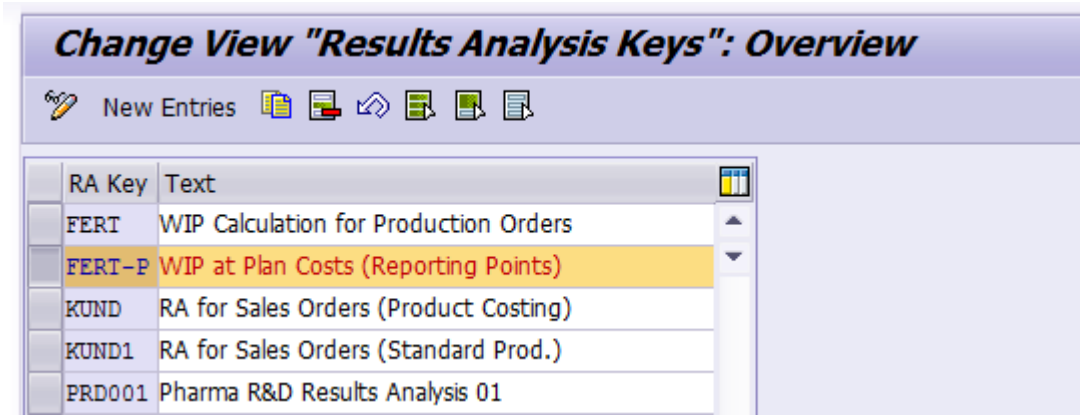
2). with reporting points consideration

Configuration Settings:

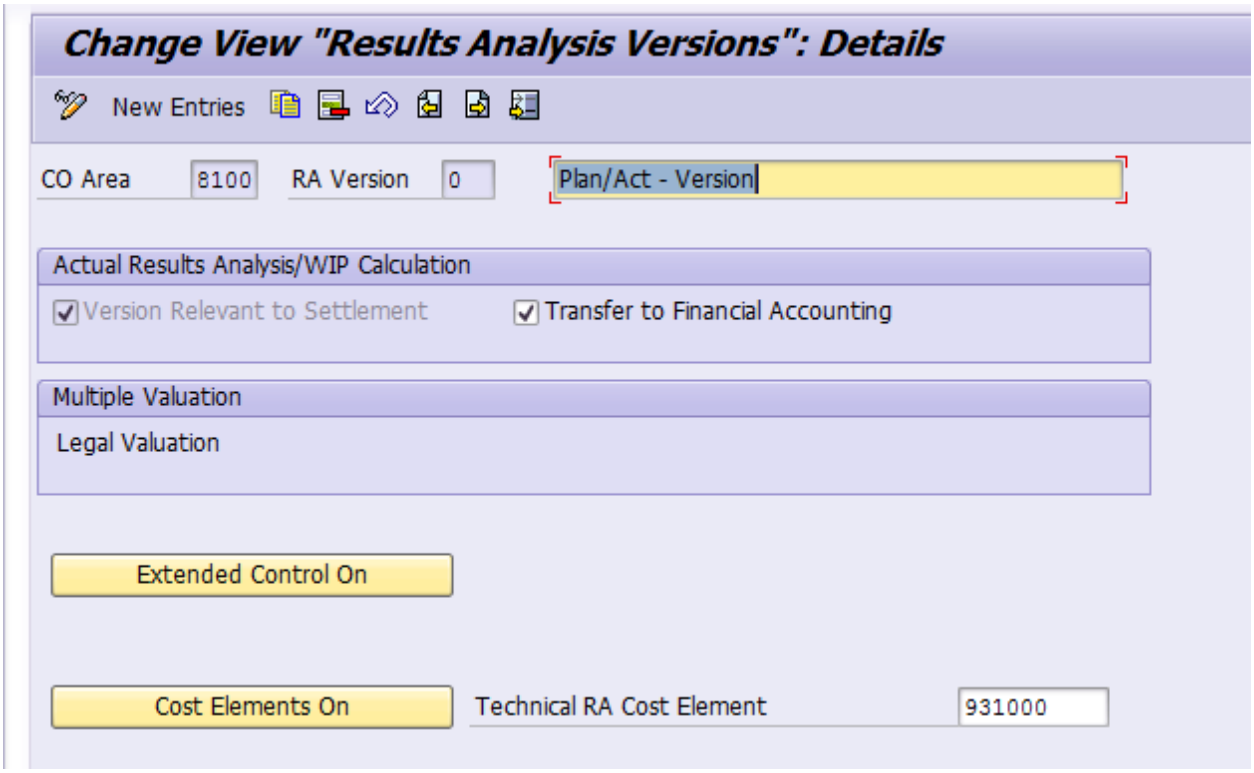
Define Repetitive Manufacturing Profiles-OSP2



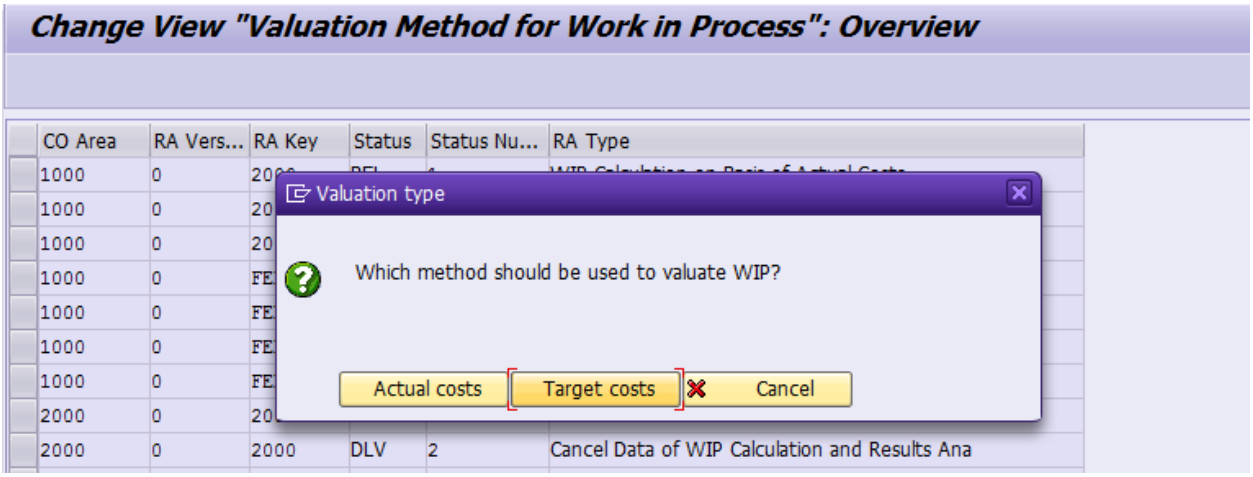
Define Results Analysis Keys-OKG1

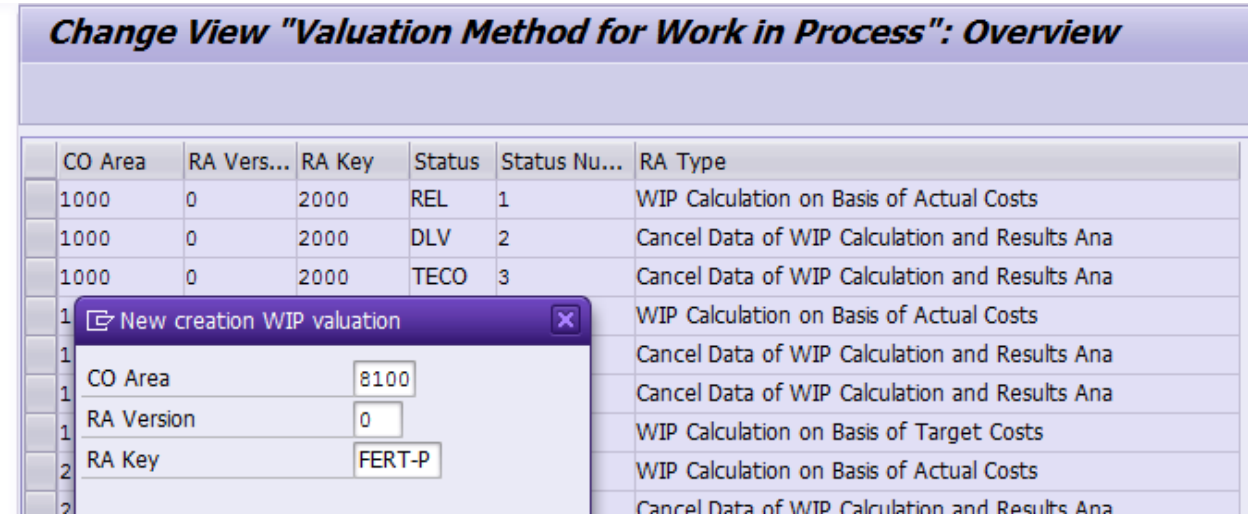


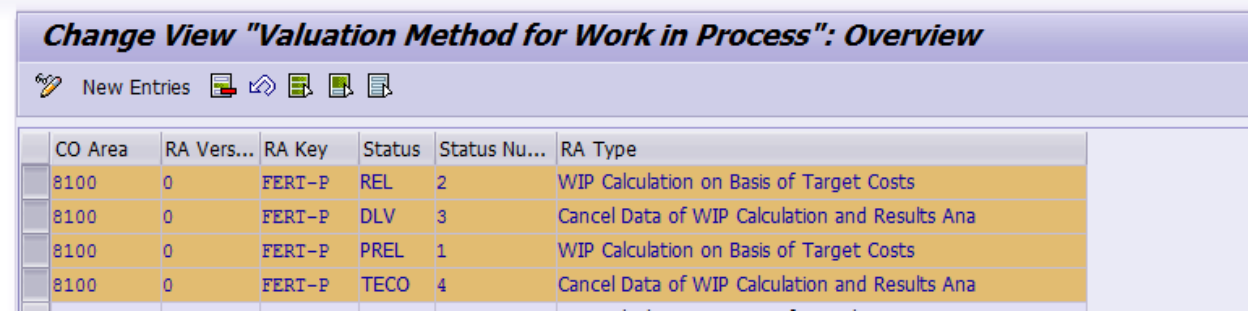
Define Results Analysis Versions-OKG9



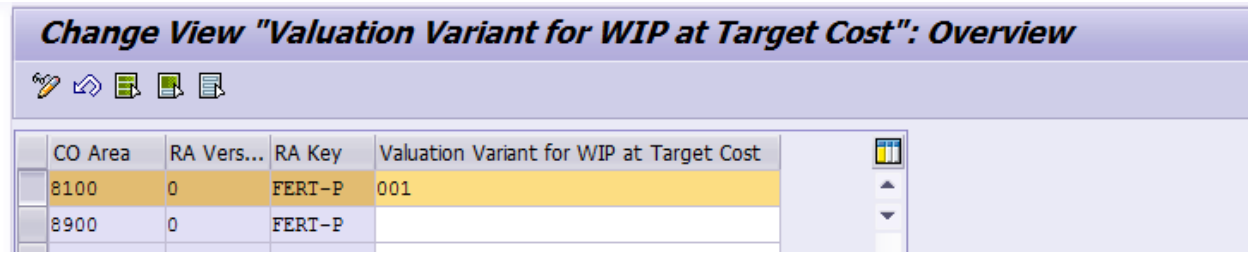
Define Valuation Method (Target Costs)-OKGD



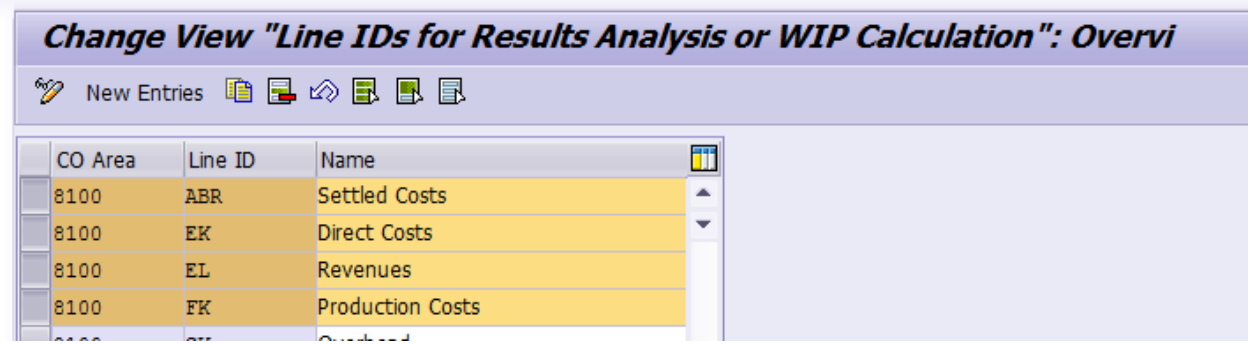




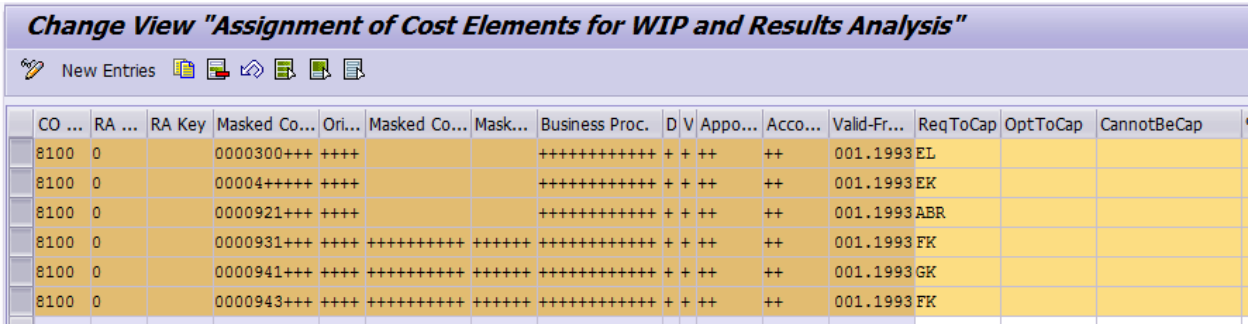
Assignment of Valuation Variant for WIP



Define Line IDs



Define Assignment-OKGB

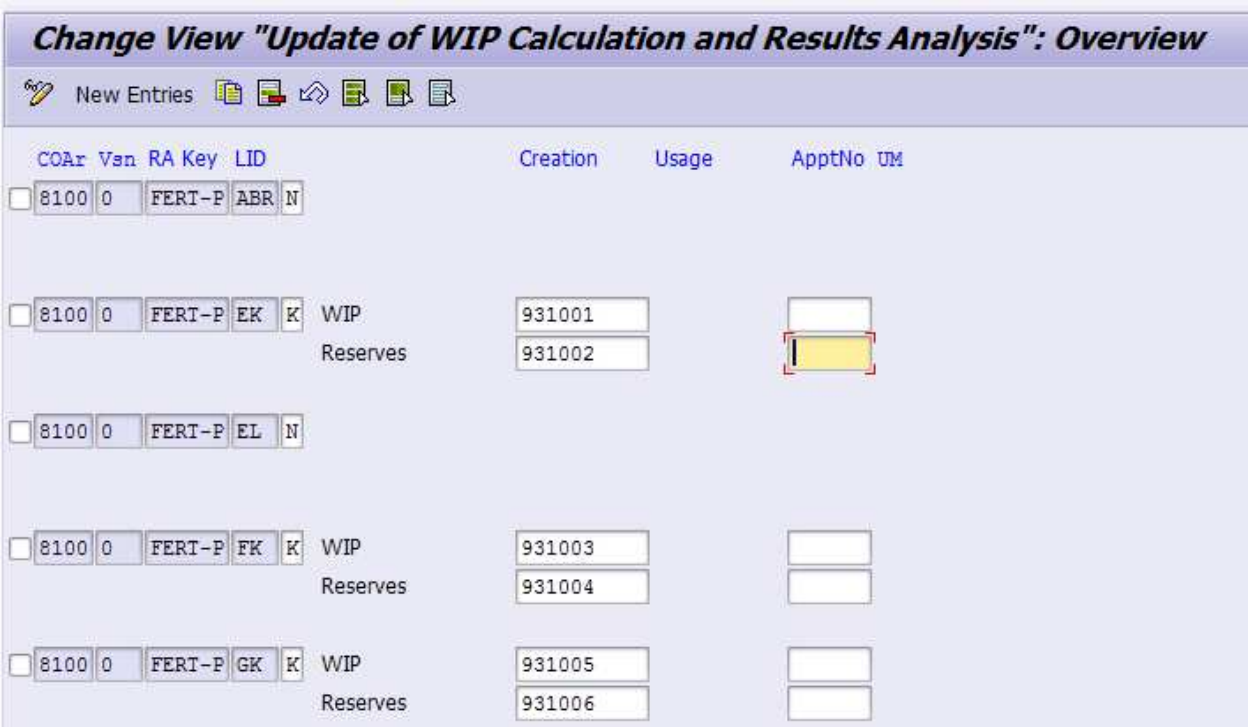


Change View "Assignment of Cost Elements for WIP and Results Analysis"

New Entries

CO ...	RA ...	RA Key	Masked Co...	Ori...	Masked Co...	Mask...	Business Proc.	D	V	Appo...	Acco...	Valid-Fr...	ReqToCap	OptToCap	CannotBeCap
8100	0		0000300+++	++++			++++++++++++	+	+	++	++	001.1993	EL		
8100	0		00004+++++	++++			++++++++++++	+	+	++	++	001.1993	EK		
8100	0		0000921+++	++++			++++++++++++	+	+	++	++	001.1993	ABR		
8100	0		0000931+++	++++	++++++++++	++++++	++++++++++++	+	+	++	++	001.1993	FK		
8100	0		0000941+++	++++	++++++++++	++++++	++++++++++++	+	+	++	++	001.1993	GK		
8100	0		0000943+++	++++	++++++++++	++++++	++++++++++++	+	+	++	++	001.1993	FK		

Define Update-OKG4

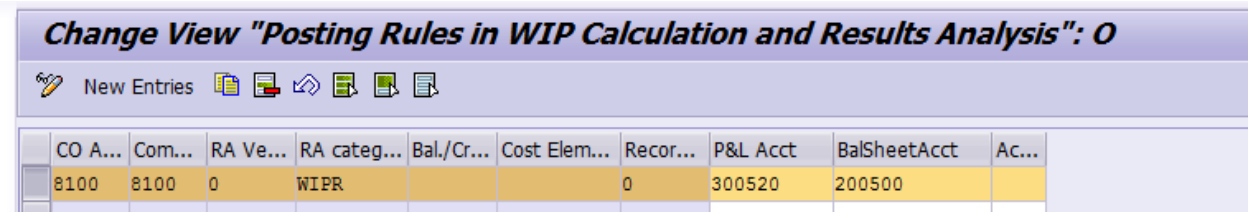


Change View "Update of WIP Calculation and Results Analysis": Overview

New Entries

COAr	Vsn	RA Key	LID			Creation	Usage	ApptNo	UM
8100	0	FERT-P	ABR	N					
8100	0	FERT-P	EK	K	WIP	931001			
					Reserves	931002			
8100	0	FERT-P	EL	N					
8100	0	FERT-P	FK	K	WIP	931003			
					Reserves	931004			
8100	0	FERT-P	GK	K	WIP	931005			
					Reserves	931006			

Define Posting Rules for Settling Work in Process-OKG8

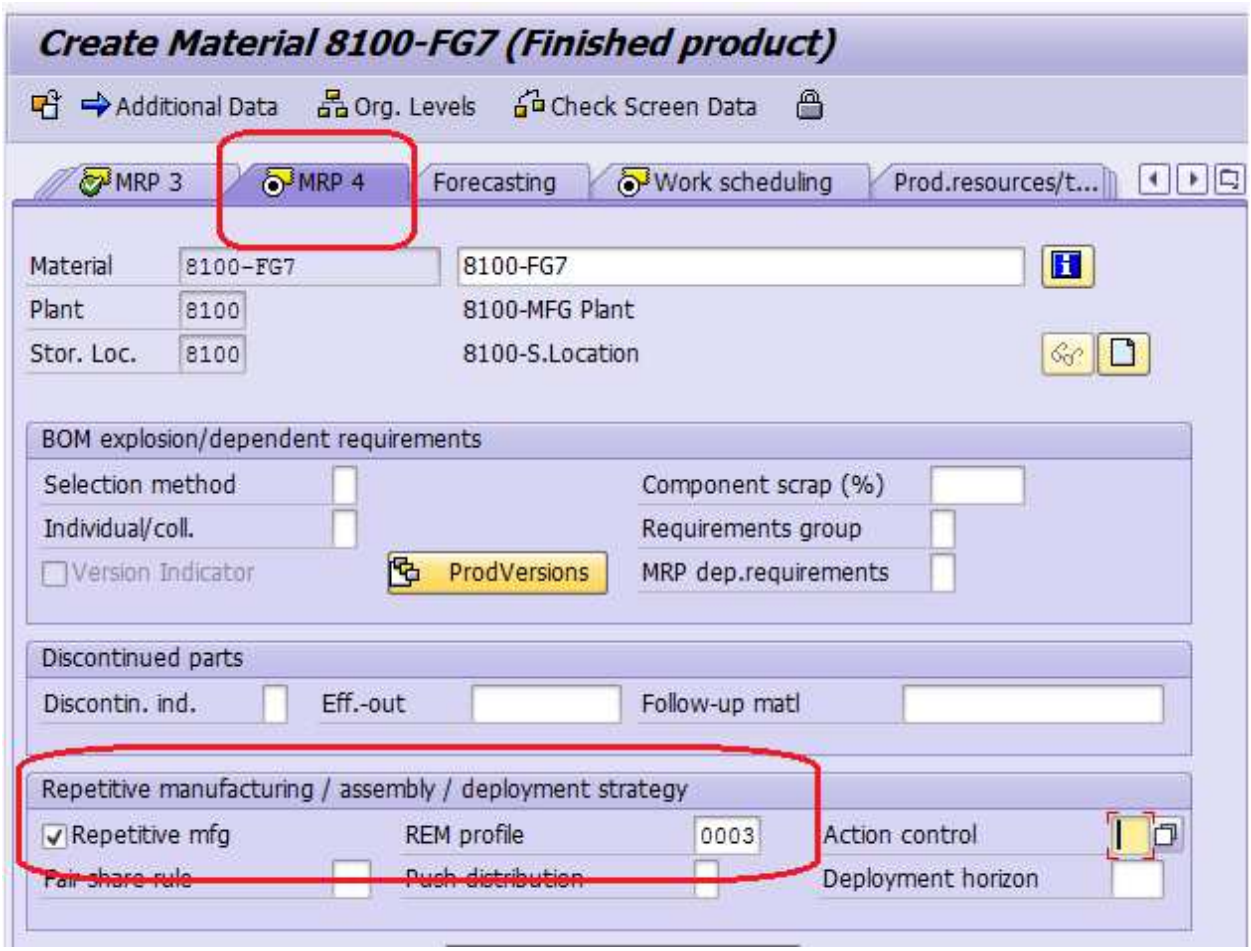


Change View "Posting Rules in WIP Calculation and Results Analysis": O

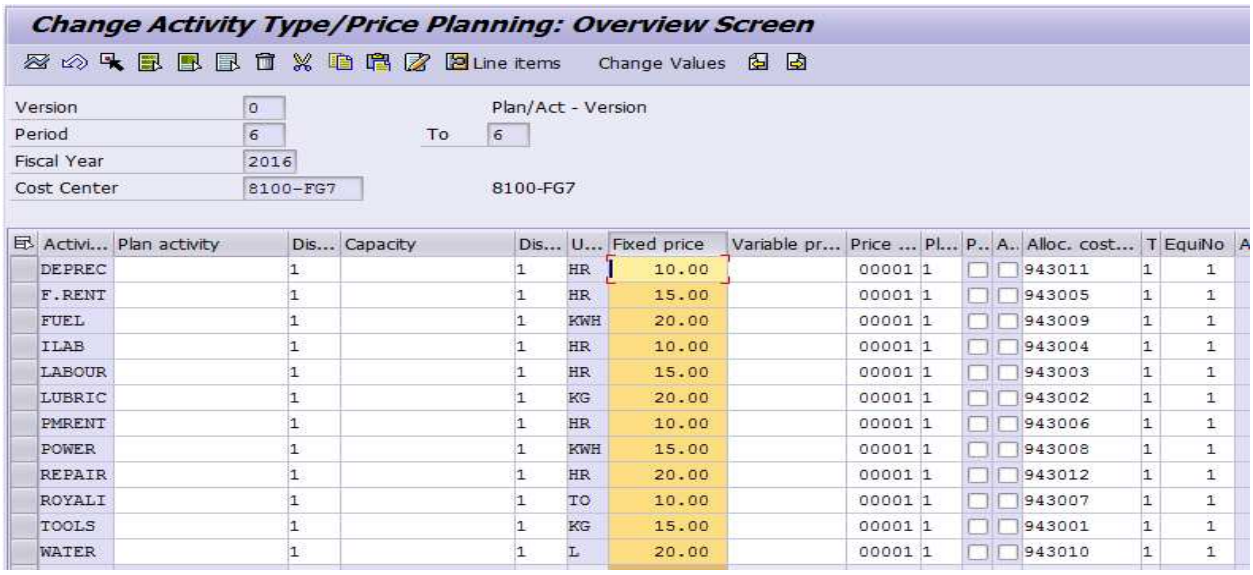
New Entries

CO A...	Com...	RA Ve...	RA categ...	Bal./Cr...	Cost Elem...	Recor...	P&L Acct	BalSheetAcct	Ac...
8100	8100	0	WIPR			0	300520	200500	

Testing-Material Master Creation

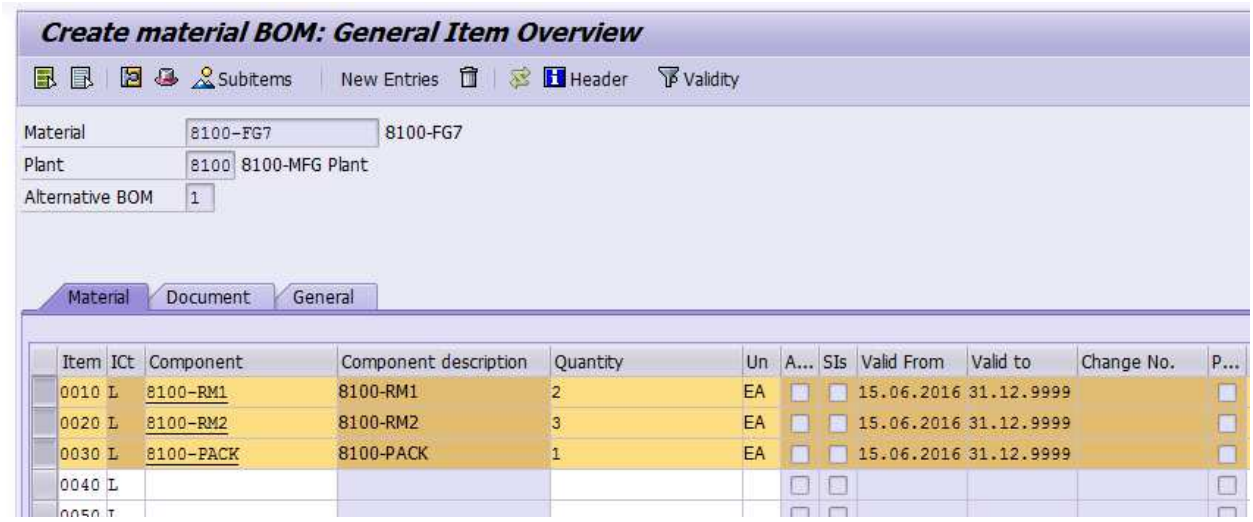


KP26

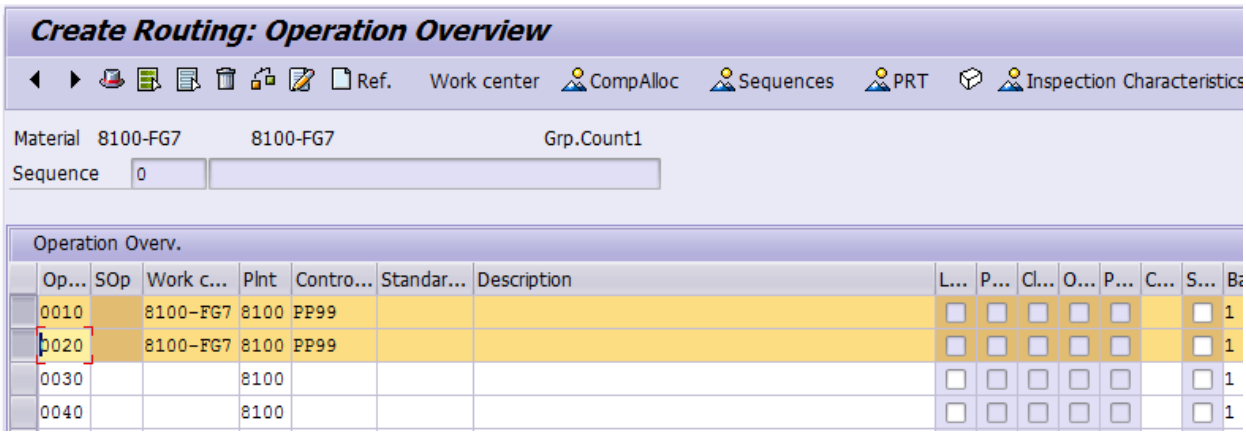


Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...	T	EquiNo	A
DEPREC		1		1	HR	10.00		00001	1			943011	1	1	
F.RENT		1		1	HR	15.00		00001	1			943005	1	1	
FUEL		1		1	KWH	20.00		00001	1			943009	1	1	
ILAB		1		1	HR	10.00		00001	1			943004	1	1	
LABOUR		1		1	HR	15.00		00001	1			943003	1	1	
LUBRIC		1		1	KG	20.00		00001	1			943002	1	1	
PMRENT		1		1	HR	10.00		00001	1			943006	1	1	
POWER		1		1	KWH	15.00		00001	1			943008	1	1	
REPAIR		1		1	HR	20.00		00001	1			943012	1	1	
ROYALI		1		1	TO	10.00		00001	1			943007	1	1	
TOOLS		1		1	KG	15.00		00001	1			943001	1	1	
WATER		1		1	L	20.00		00001	1			943010	1	1	

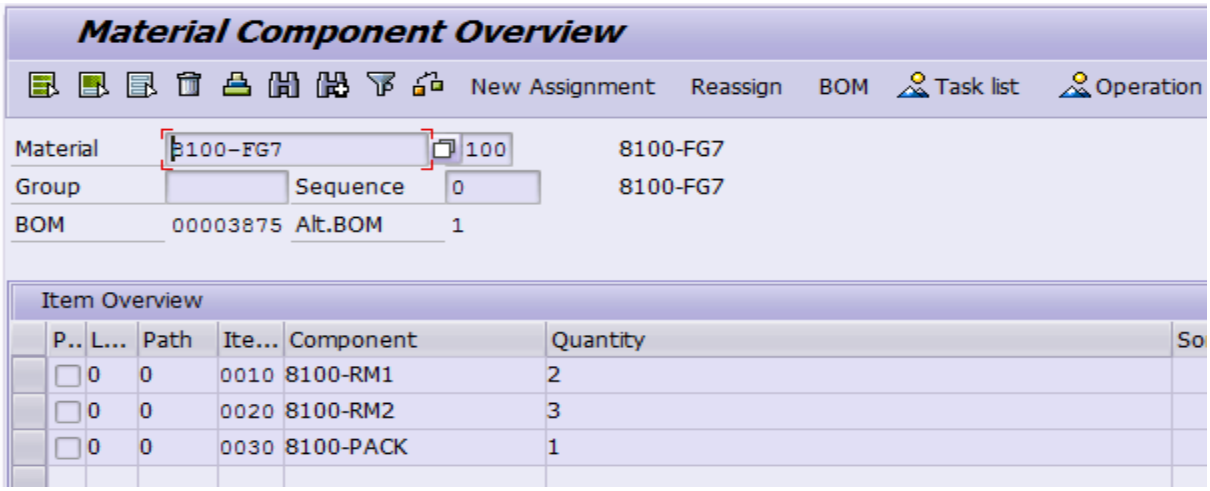
CS01-Bill of Material



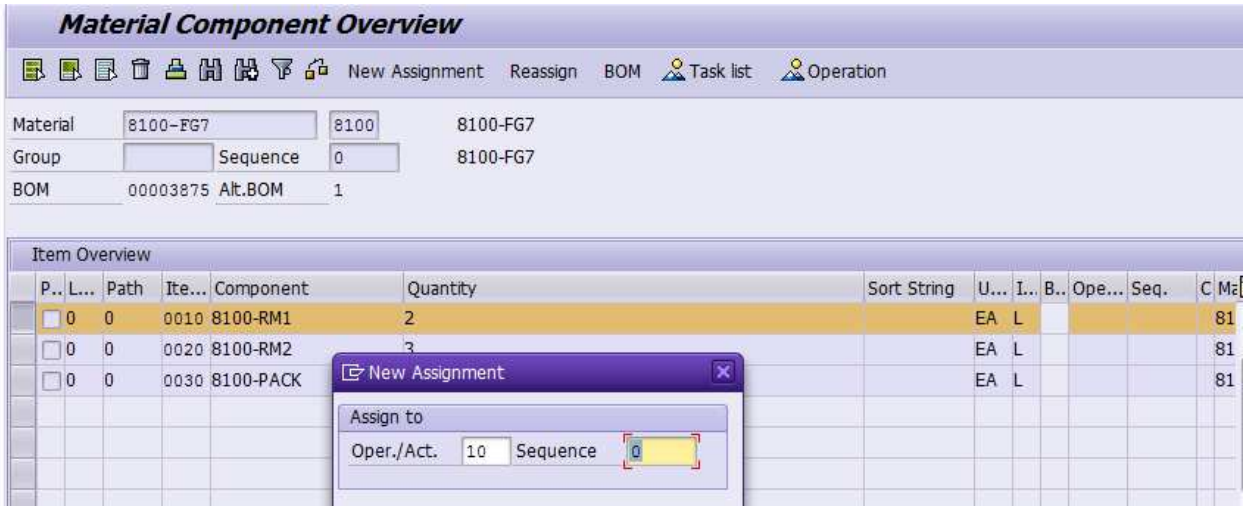
CA01-Routing



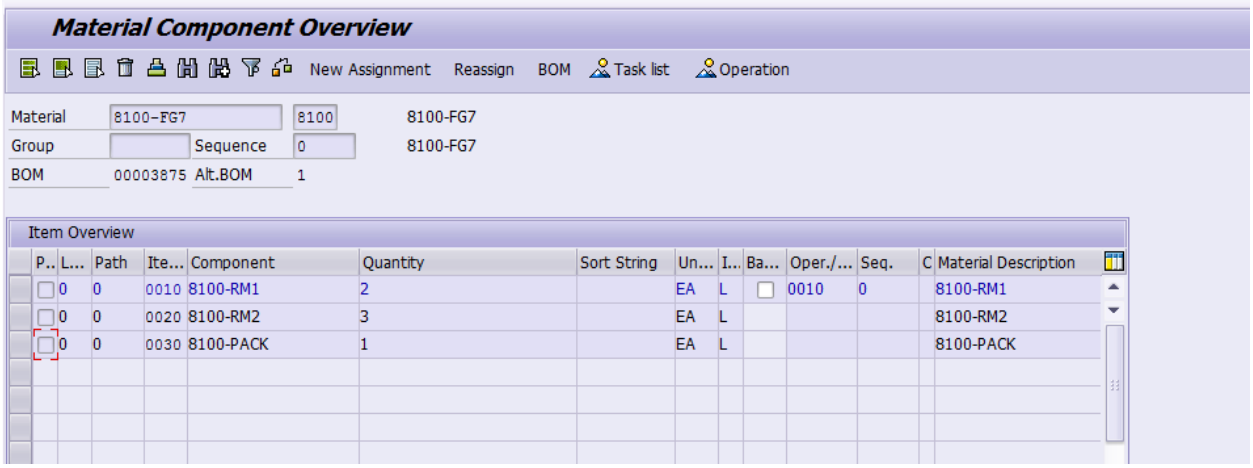
Click on Component Allocation-F7



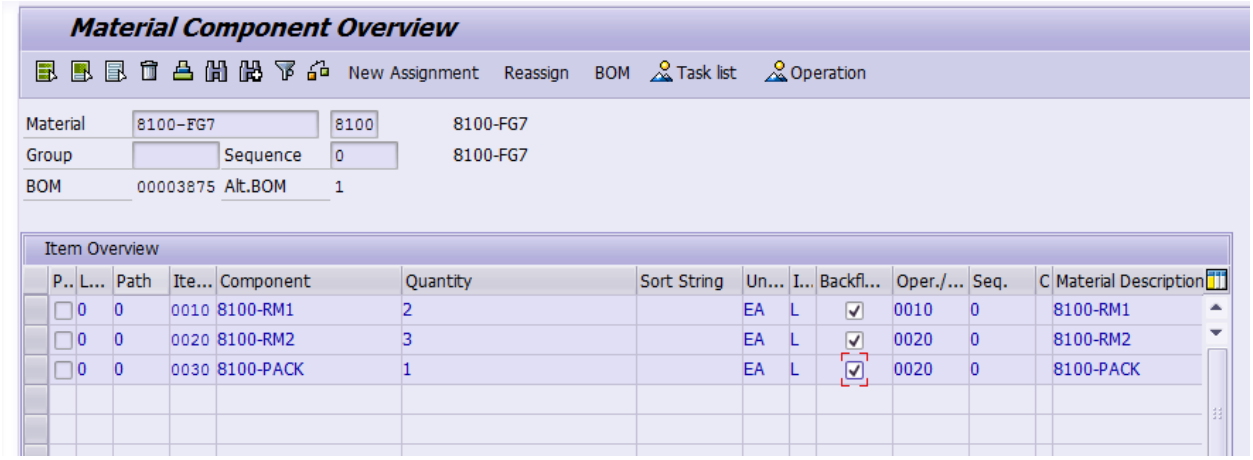
Select item 0010 and click on new assignment (F5),



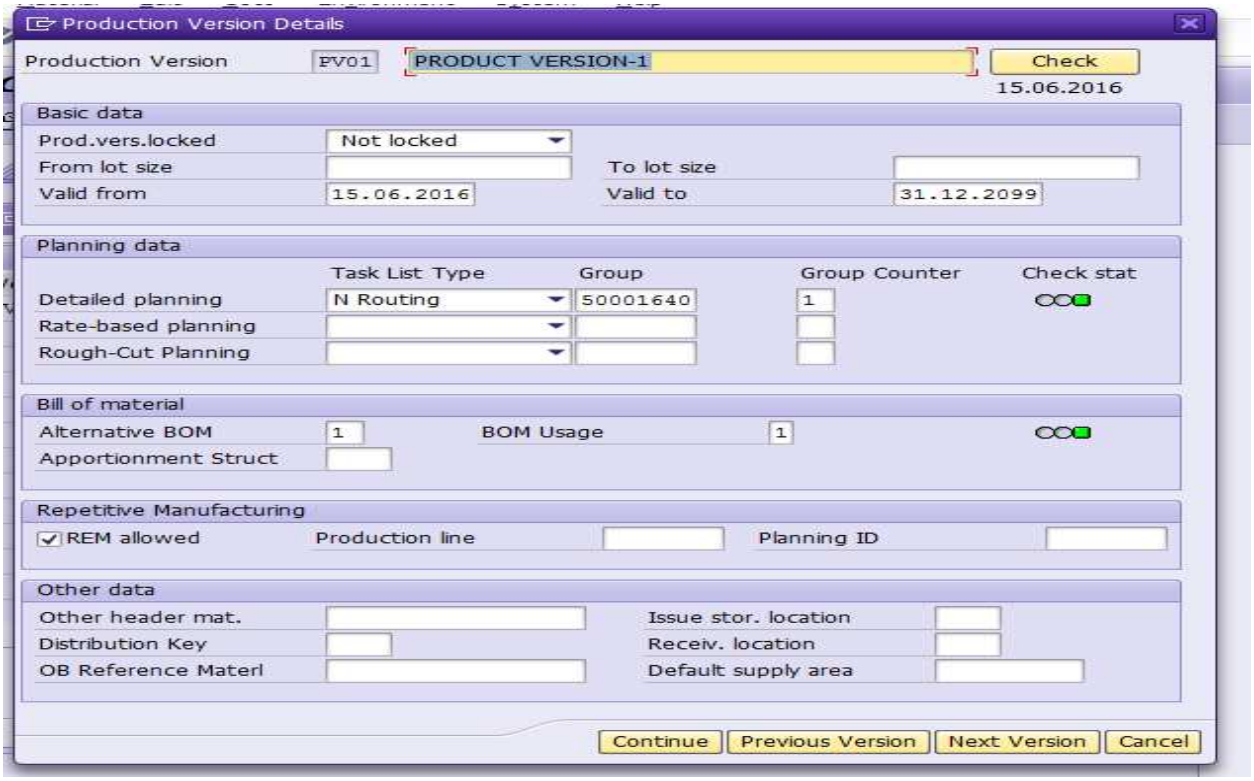
After selecting operation and sequence will appear



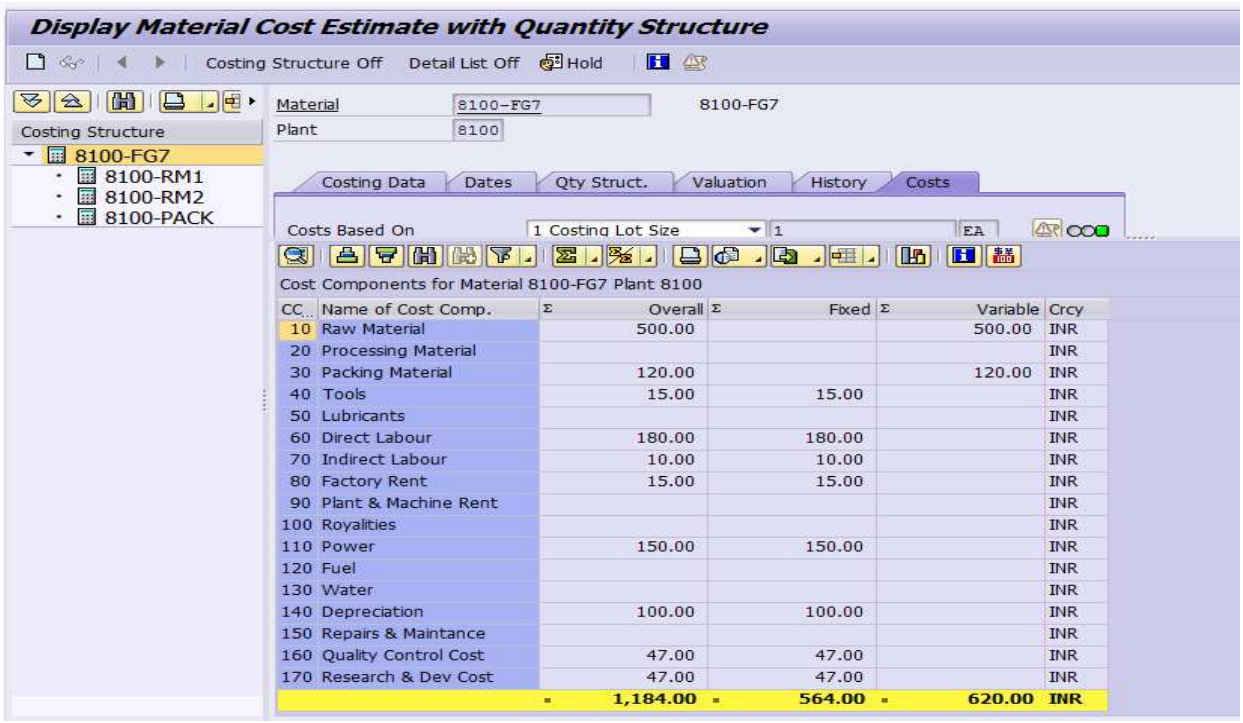
Similarly second and third also we can do



Now Production Version mapping-MM02

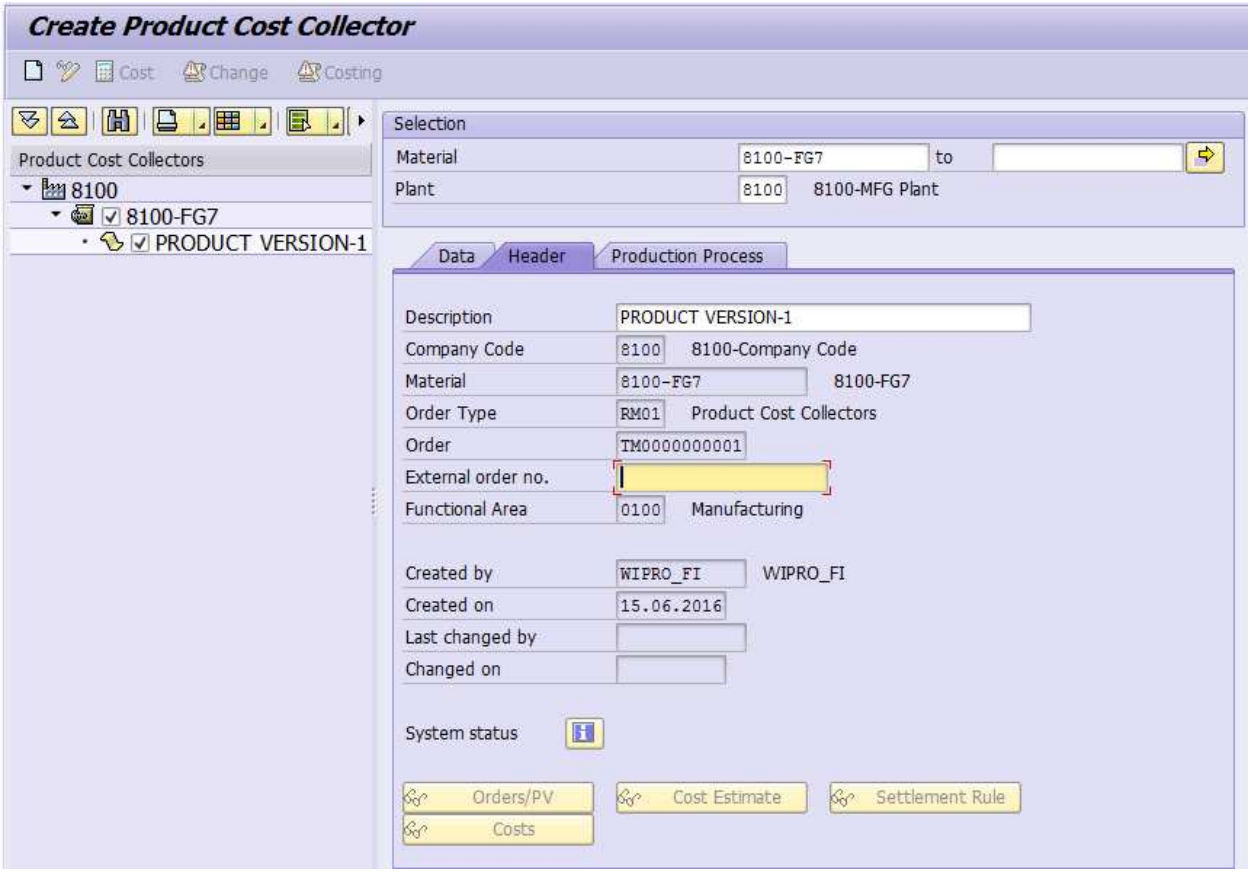


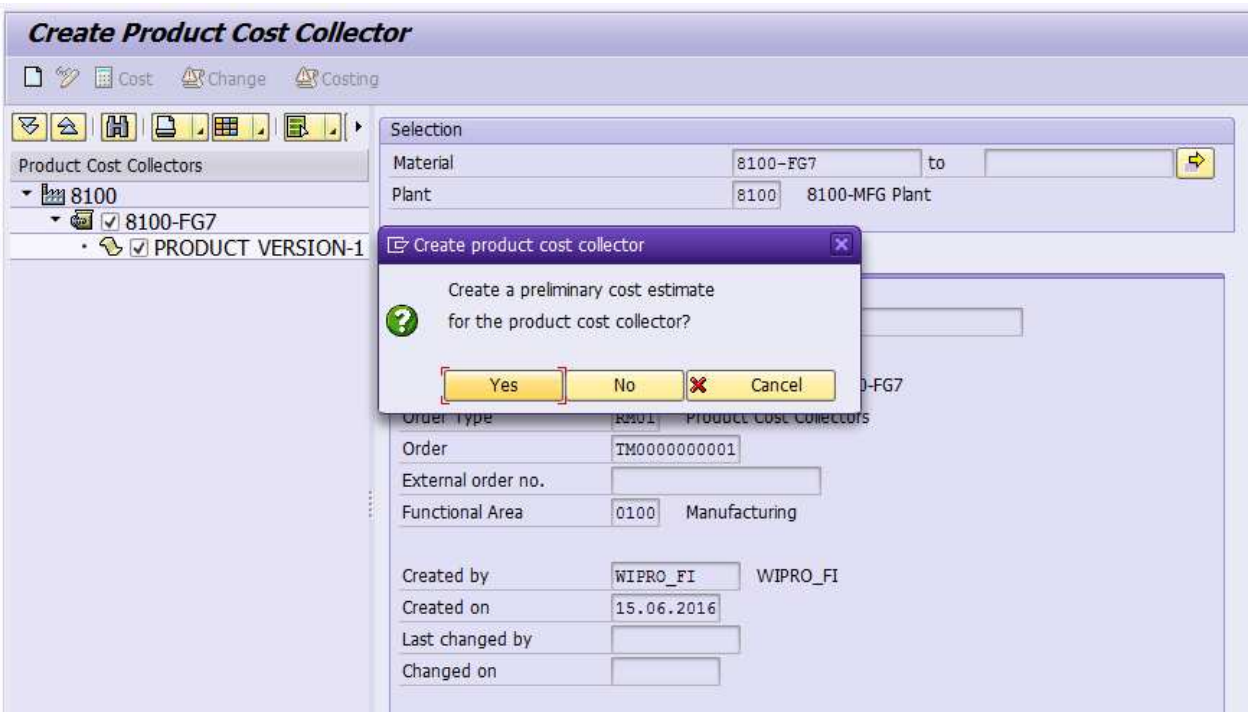
CK11N-Cost estimation

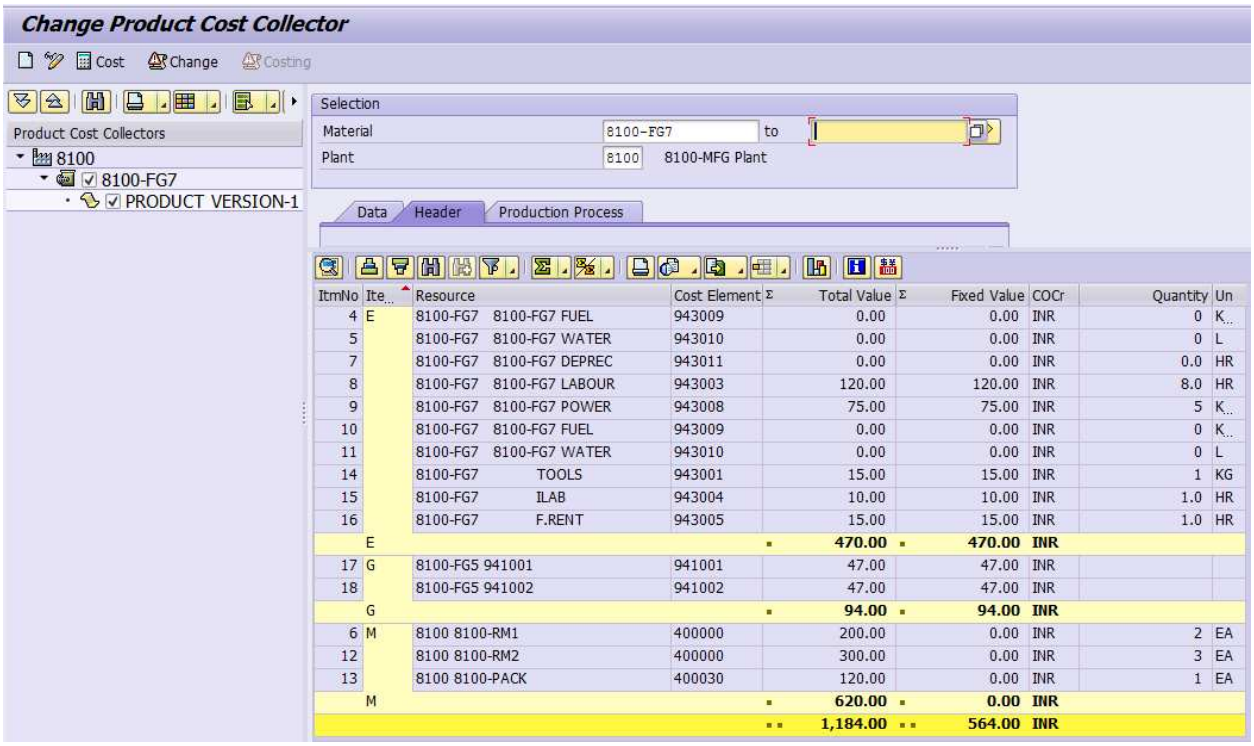


CC...	Name of Cost Comp.	Overall	Fixed	Variable	Crcy
10	Raw Material	500.00		500.00	INR
20	Processing Material				INR
30	Packing Material	120.00		120.00	INR
40	Tools	15.00	15.00		INR
50	Lubricants				INR
60	Direct Labour	180.00	180.00		INR
70	Indirect Labour	10.00	10.00		INR
80	Factory Rent	15.00	15.00		INR
90	Plant & Machine Rent				INR
100	Royalities				INR
110	Power	150.00	150.00		INR
120	Fuel				INR
130	Water				INR
140	Depreciation	100.00	100.00		INR
150	Repairs & Maintance				INR
160	Quality Control Cost	47.00	47.00		INR
170	Research & Dev Cost	47.00	47.00		INR
		1,184.00	564.00	620.00	INR

KKF6N-Product Cost Collector creation

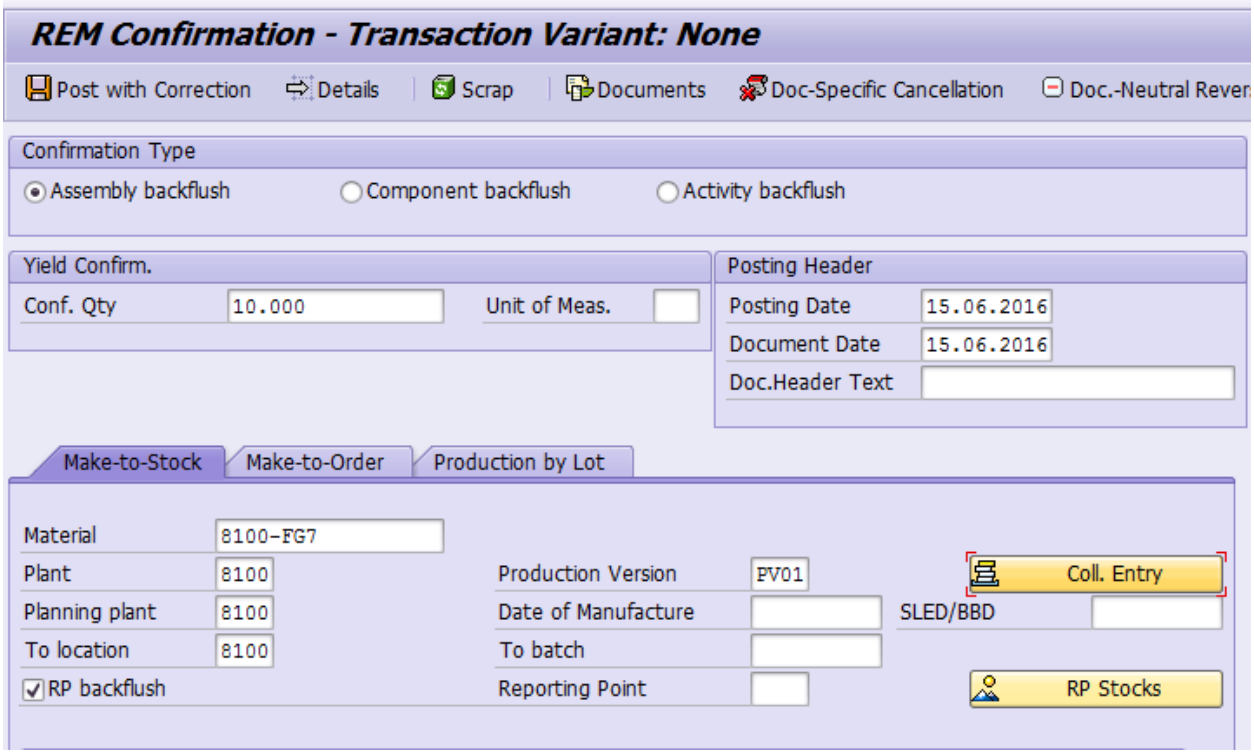


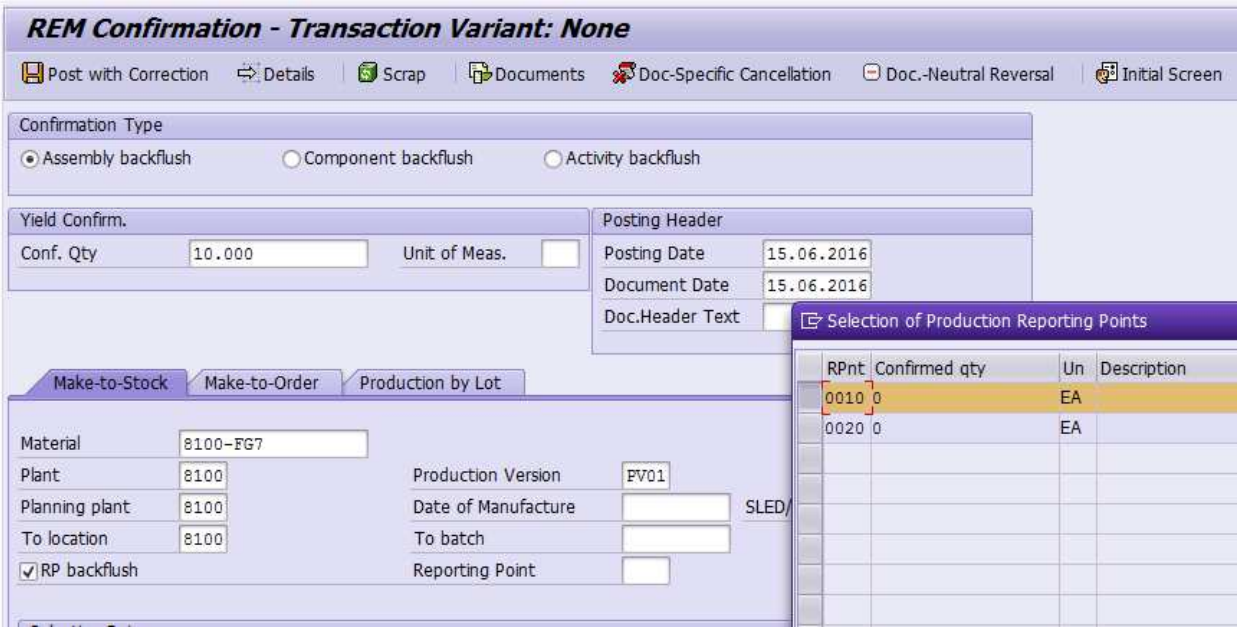


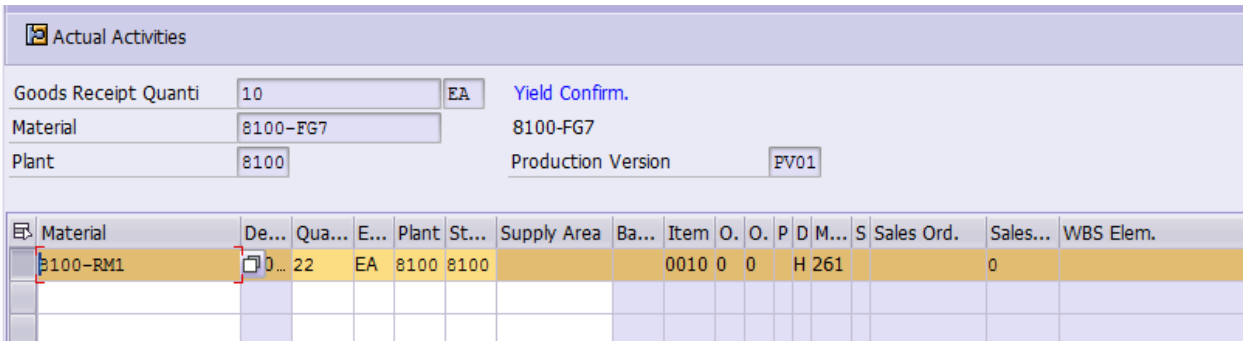


ItmNo	Ite...	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
4	E	8100-FG7 8100-FG7 FUEL	943009	0.00	0.00	INR	0	K...
5		8100-FG7 8100-FG7 WATER	943010	0.00	0.00	INR	0	L
7		8100-FG7 8100-FG7 DEPREC	943011	0.00	0.00	INR	0.0	HR
8		8100-FG7 8100-FG7 LABOUR	943003	120.00	120.00	INR	8.0	HR
9		8100-FG7 8100-FG7 POWER	943008	75.00	75.00	INR	5	K...
10		8100-FG7 8100-FG7 FUEL	943009	0.00	0.00	INR	0	K...
11		8100-FG7 8100-FG7 WATER	943010	0.00	0.00	INR	0	L
14		8100-FG7 TOOLS	943001	15.00	15.00	INR	1	KG
15		8100-FG7 ILAB	943004	10.00	10.00	INR	1.0	HR
16		8100-FG7 F.RENT	943005	15.00	15.00	INR	1.0	HR
	E			**470.00**	**470.00**	**INR**		
17	G	8100-FG5 941001	941001	47.00	47.00	INR		
18		8100-FG5 941002	941002	47.00	47.00	INR		
	G			**94.00**	**94.00**	**INR**		
6	M	8100 8100-RM1	400000	200.00	0.00	INR	2	EA
12		8100 8100-RM2	400000	300.00	0.00	INR	3	EA
13		8100 8100-PACK	400030	120.00	0.00	INR	1	EA
	M			**620.00**	**0.00**	**INR**		
				1,184.00	**564.00**	**INR**		

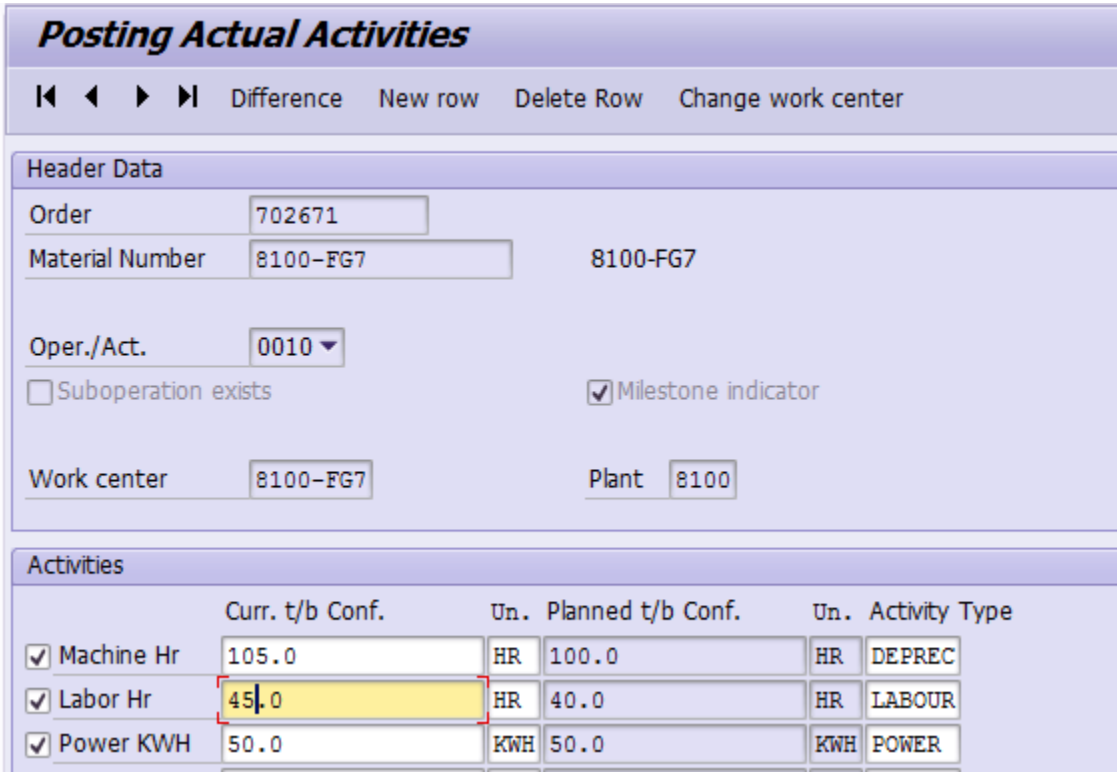
MFBF-Back Flush





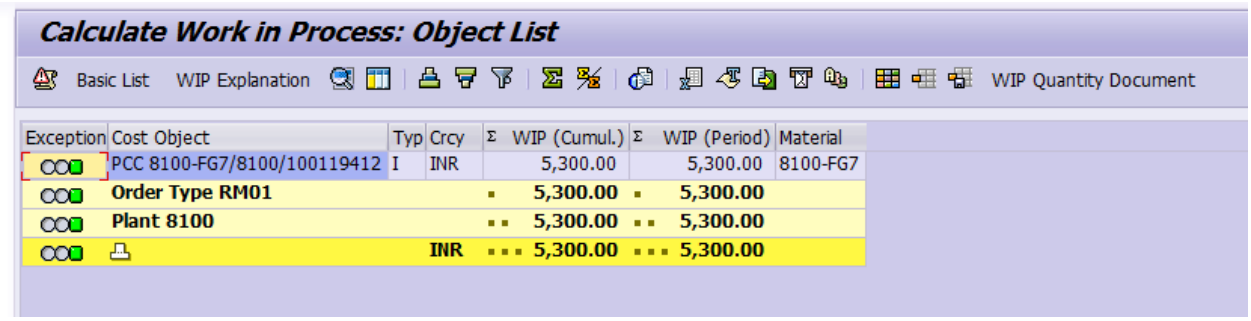


Activity Confirmation



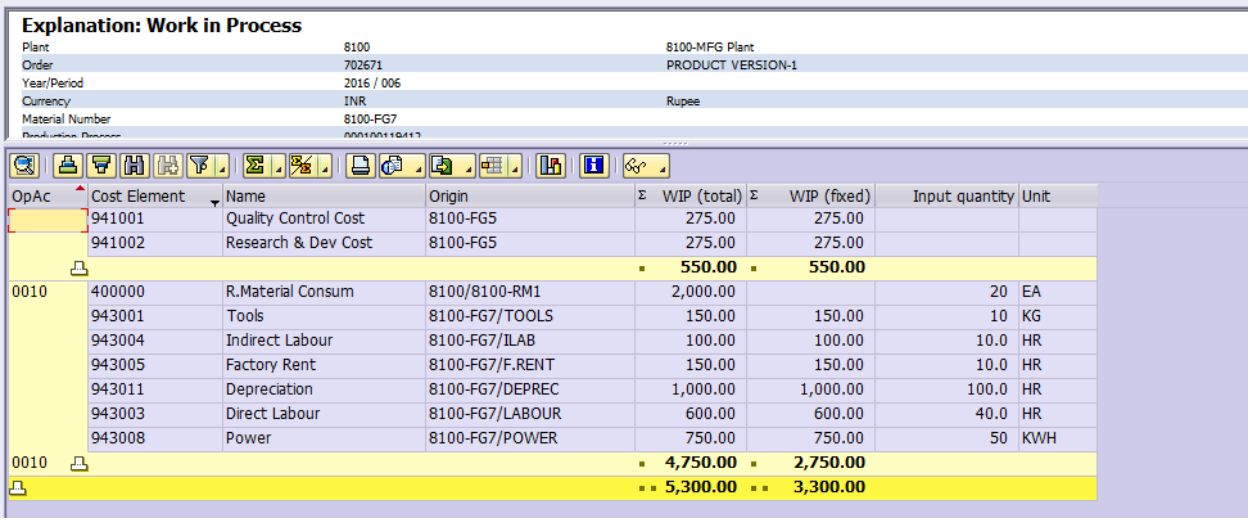
No goods receipt happened until final operation done.

KKAS – Calculate



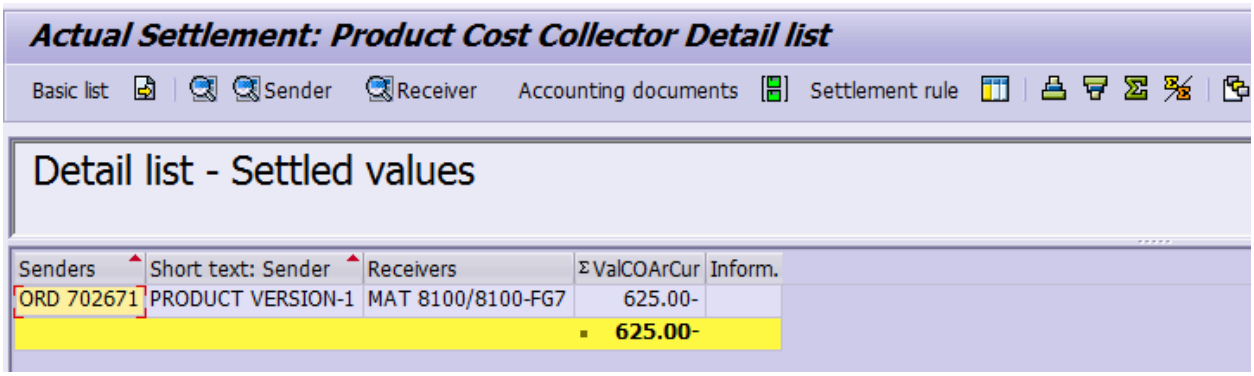
Exception	Cost Object	Typ	Crcy	Σ WIP (Cumul.)	Σ WIP (Period)	Material
	PCC 8100-FG7/8100/100119412	I	INR	5,300.00	5,300.00	8100-FG7
	Order Type RM01			**5,300.00**	**5,300.00**	
	Plant 8100			**5,300.00**	**5,300.00**	
			INR	**5,300.00**	**5,300.00**	

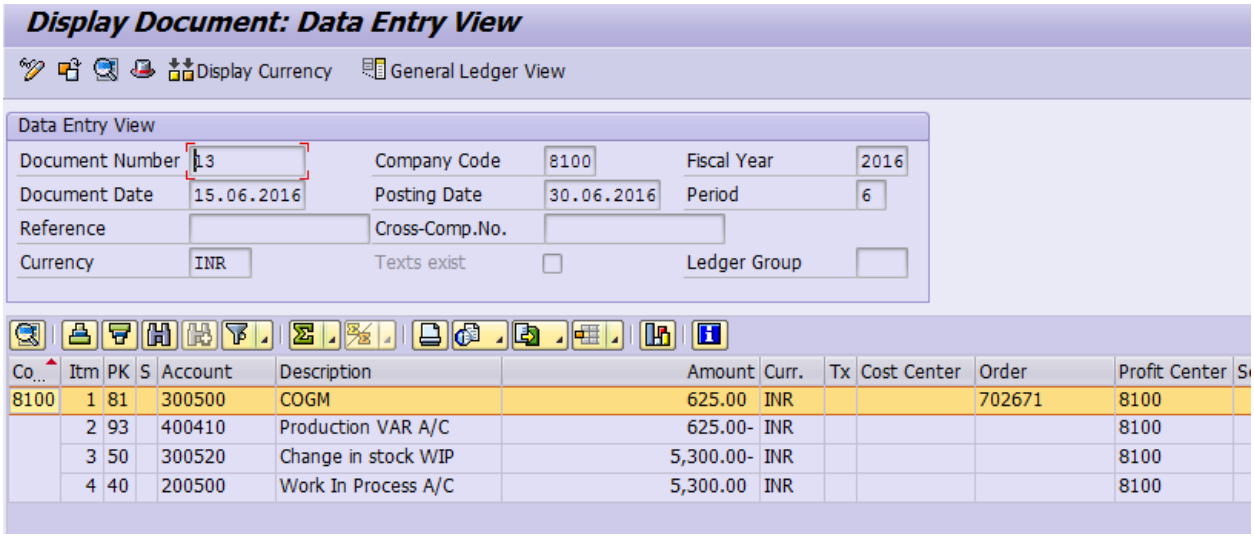
Click on WIP Explanation



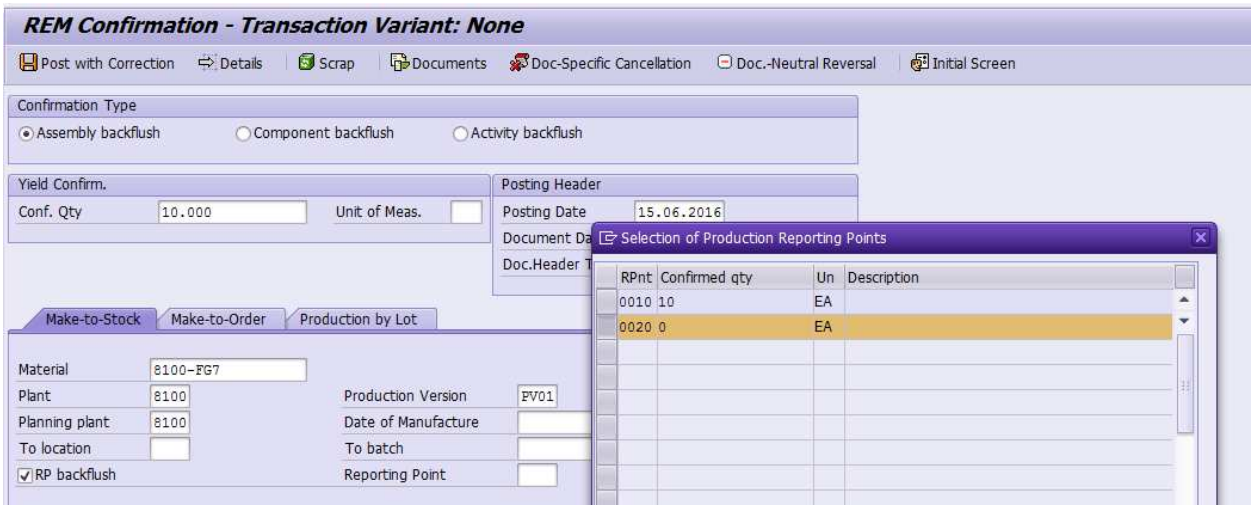
OpAc	Cost Element	Name	Origin	Σ WIP (total)	Σ WIP (fixed)	Input quantity	Unit
	941001	Quality Control Cost	8100-FG5	275.00	275.00		
	941002	Research & Dev Cost	8100-FG5	275.00	275.00		
				550.00	**550.00**		
0010	400000	R.Material Consum	8100/8100-RM1	2,000.00		20	EA
	943001	Tools	8100-FG7/TOOLS	150.00	150.00	10	KG
	943004	Indirect Labour	8100-FG7/ILAB	100.00	100.00	10.0	HR
	943005	Factory Rent	8100-FG7/F.RENT	150.00	150.00	10.0	HR
	943011	Depreciation	8100-FG7/DEPREC	1,000.00	1,000.00	100.0	HR
	943003	Direct Labour	8100-FG7/LABOUR	600.00	600.00	40.0	HR
	943008	Power	8100-FG7/POWER	750.00	750.00	50	KWH
0010				**4,750.00**	**2,750.00**		
				5,300.00	**3,300.00**		

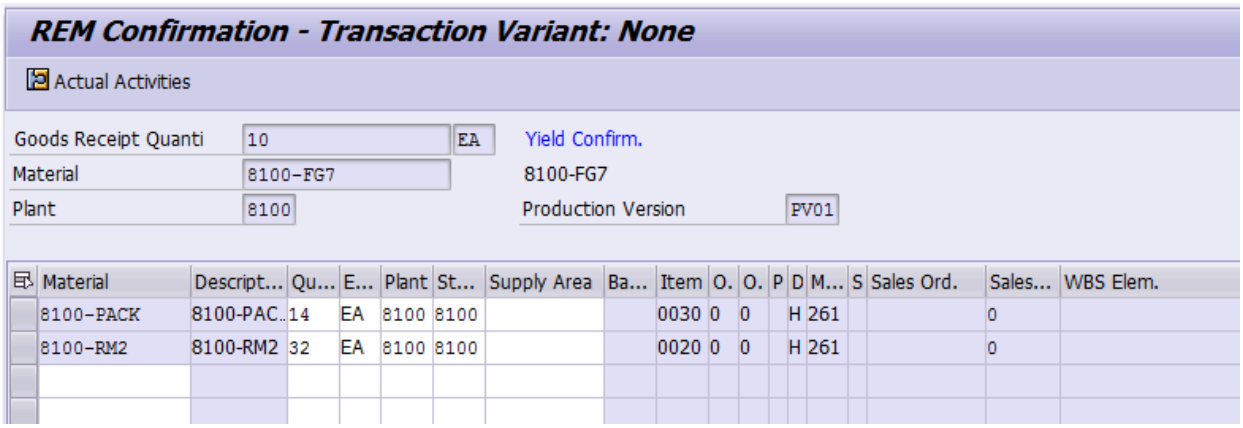
KK87 - Individual Processing- Settlement



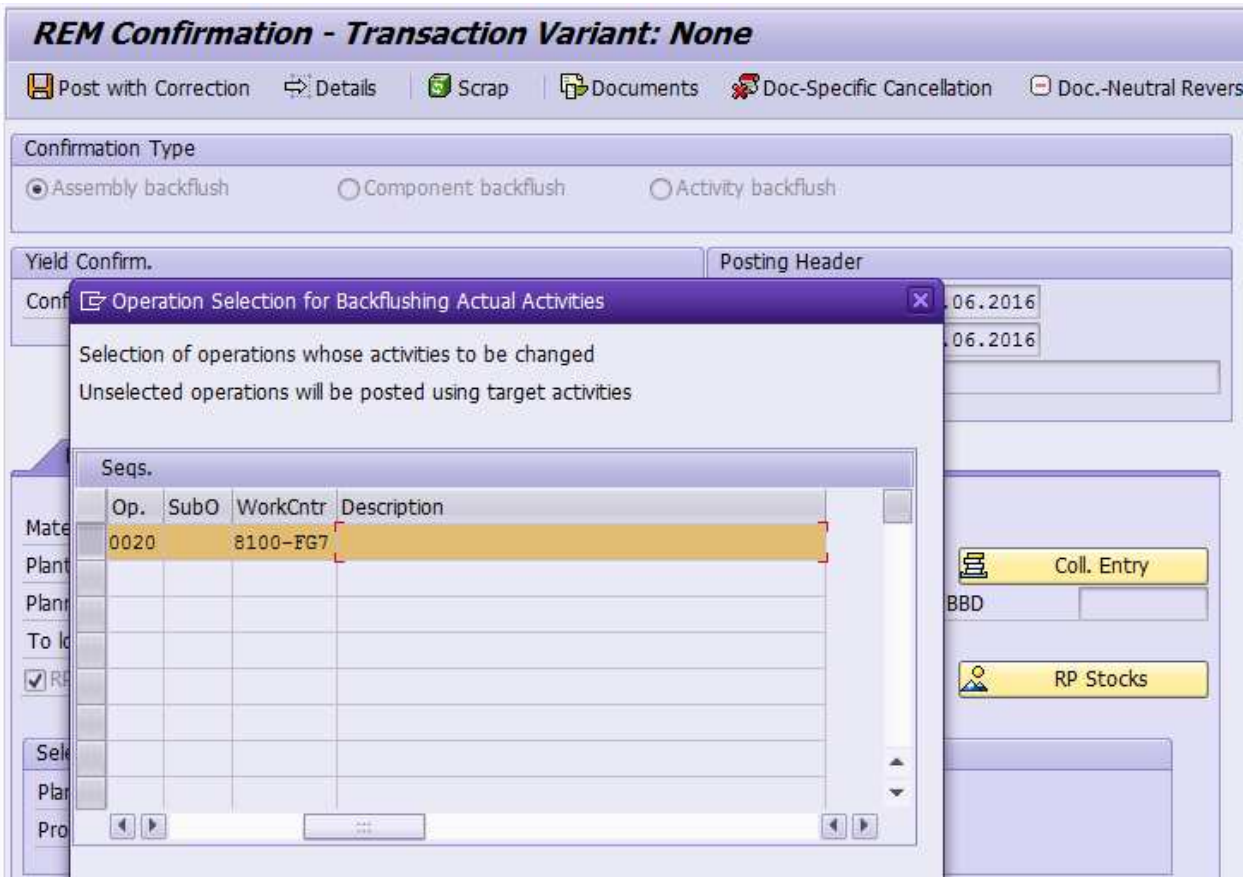


Now Second Operation Confirmation-MFBF

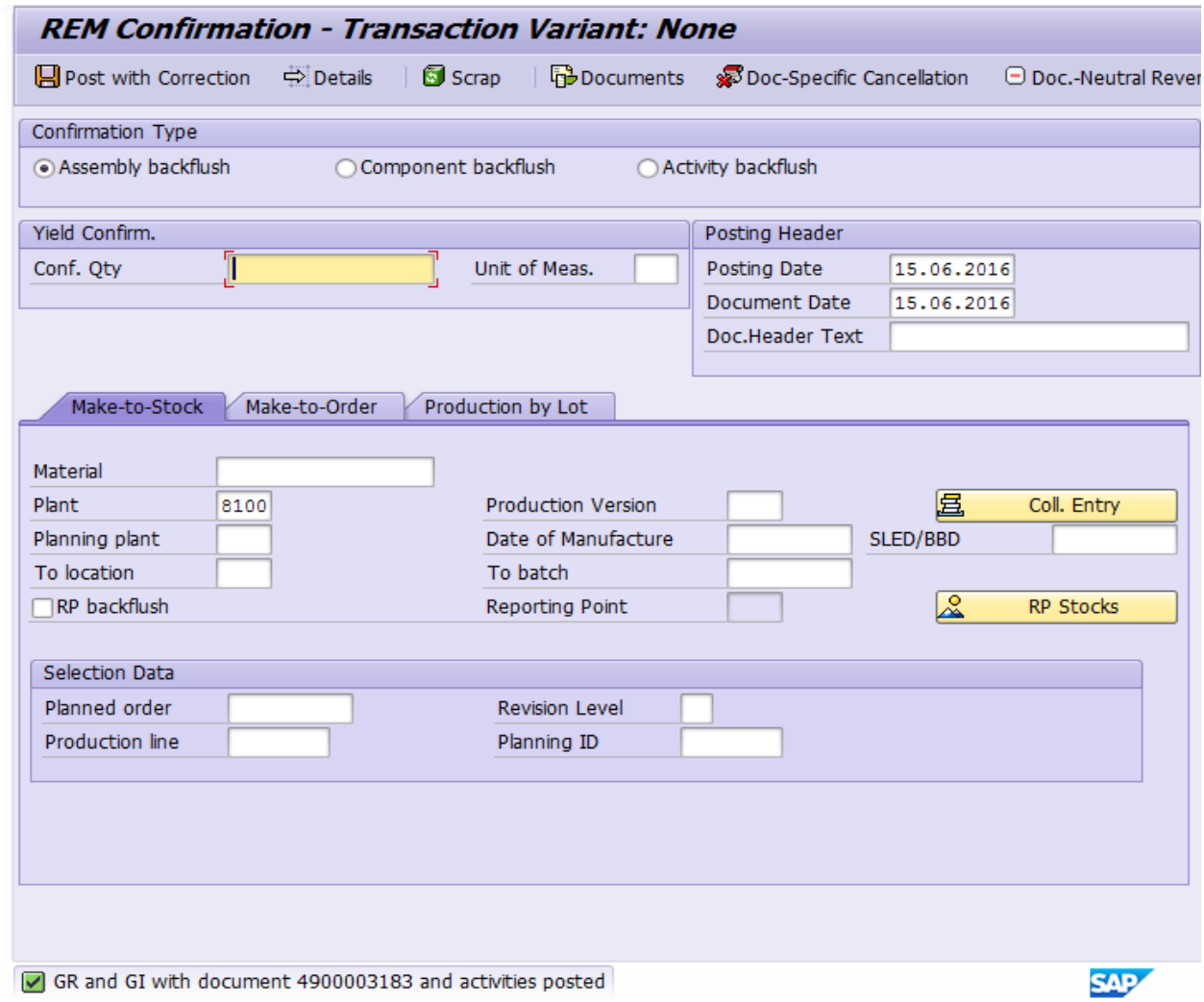




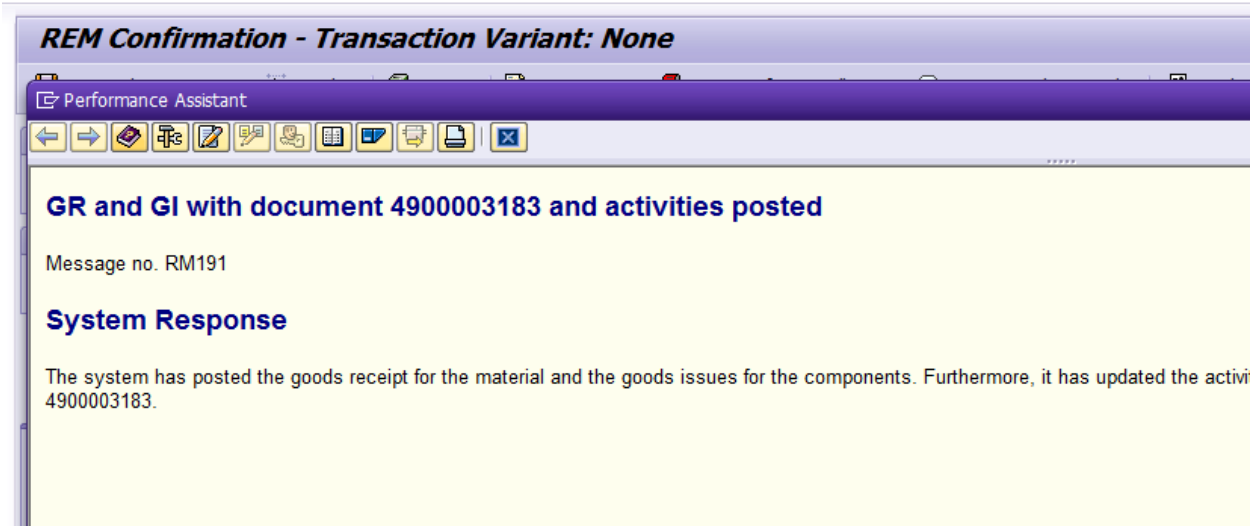
Actual Activities



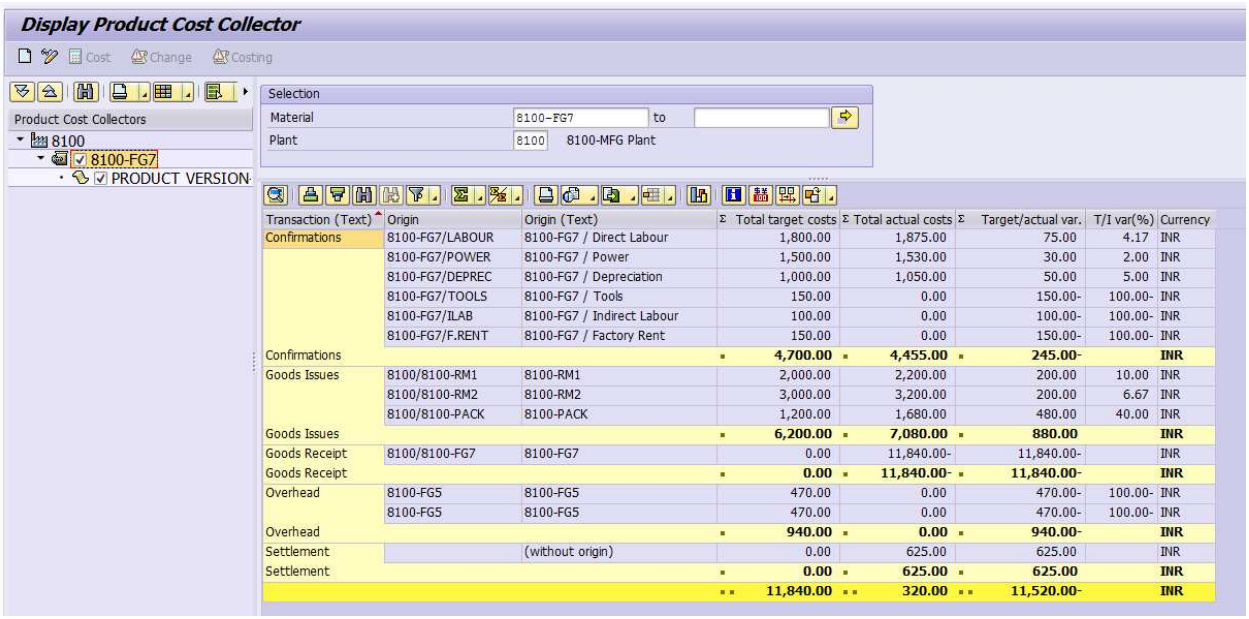
Posting Actual Activities
Difference
New row
Delete Row
Change work center
Header Data
Order
702671
Material Number
8100-FG7
8100-FG7
Oper./Act.
0020
Suboperation exists
Milestone indicator
Work center
8100-FG7
Plant
8100
Activities
Curr. t/b Conf.
Un.
Planned t/b Conf.
Un.
Activity Type
Machine Hr
HR
0.0
HR
DEPREC
Labor Hr
80.0
HR
80.0
HR
LABOUR
Power KWH
52
KWH
50.0
KWH
POWER
Fuel kwh
KWH
0.0
KWH
FUEL
Water L
L
0.0
L
WATER
Reason



Now Final Operation Completed. So GRN happened

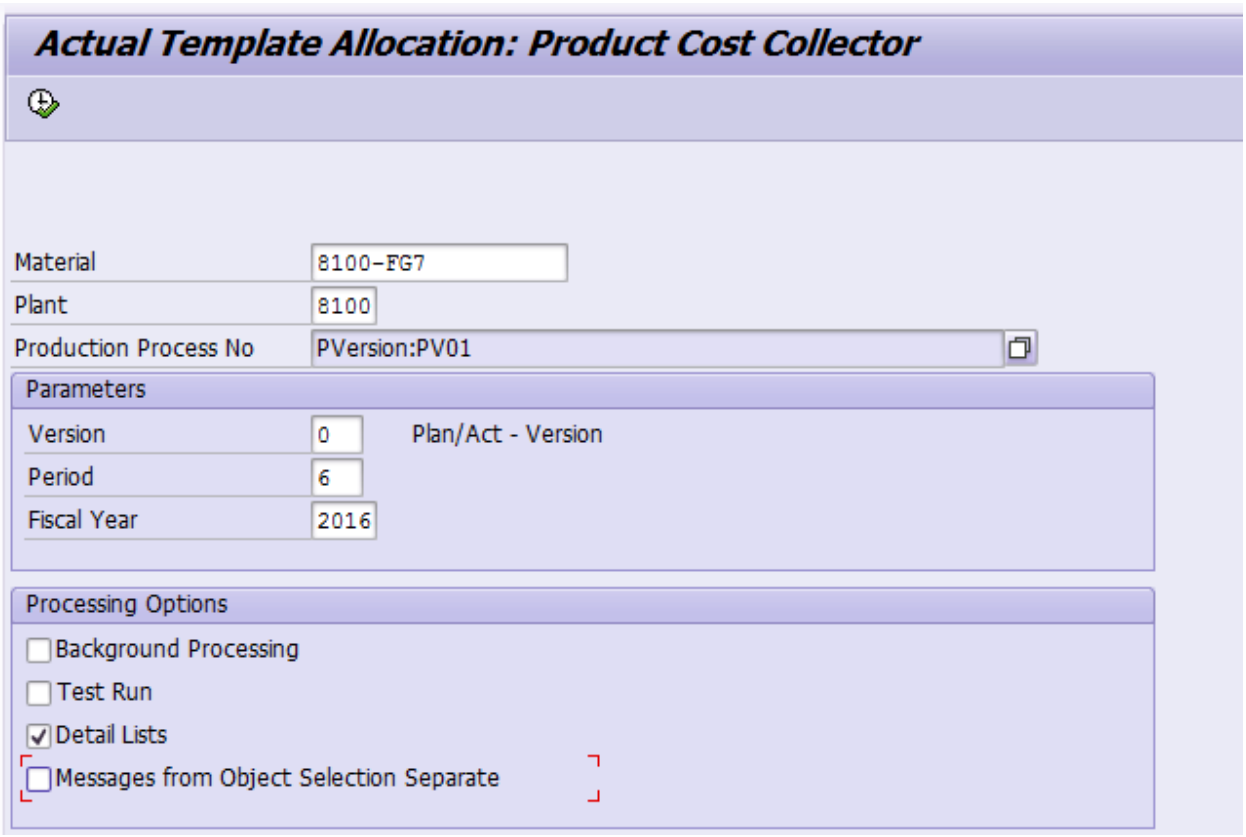


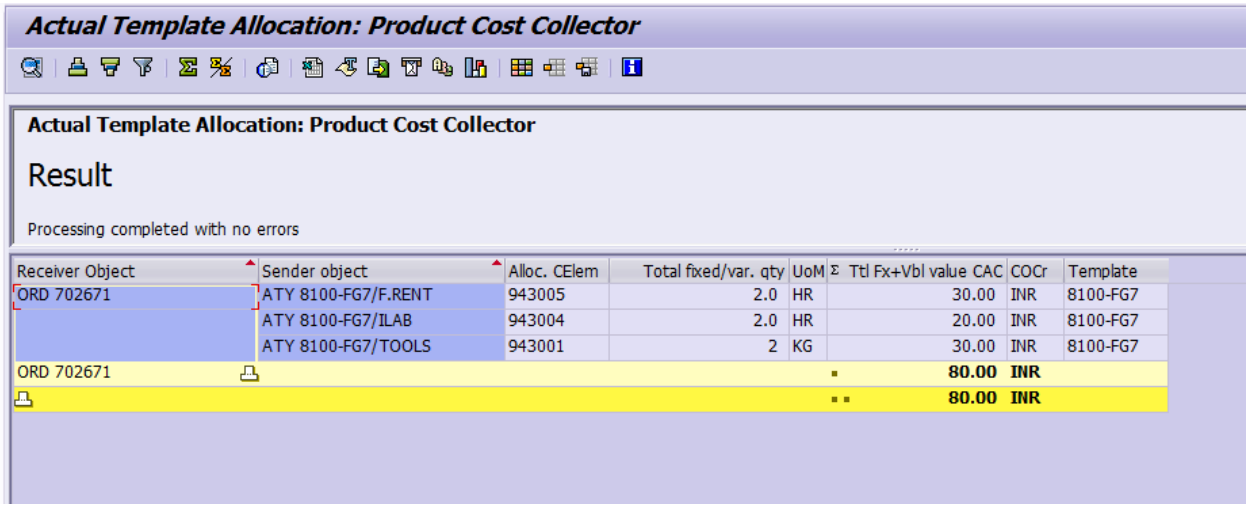
Now Display –KKF6N



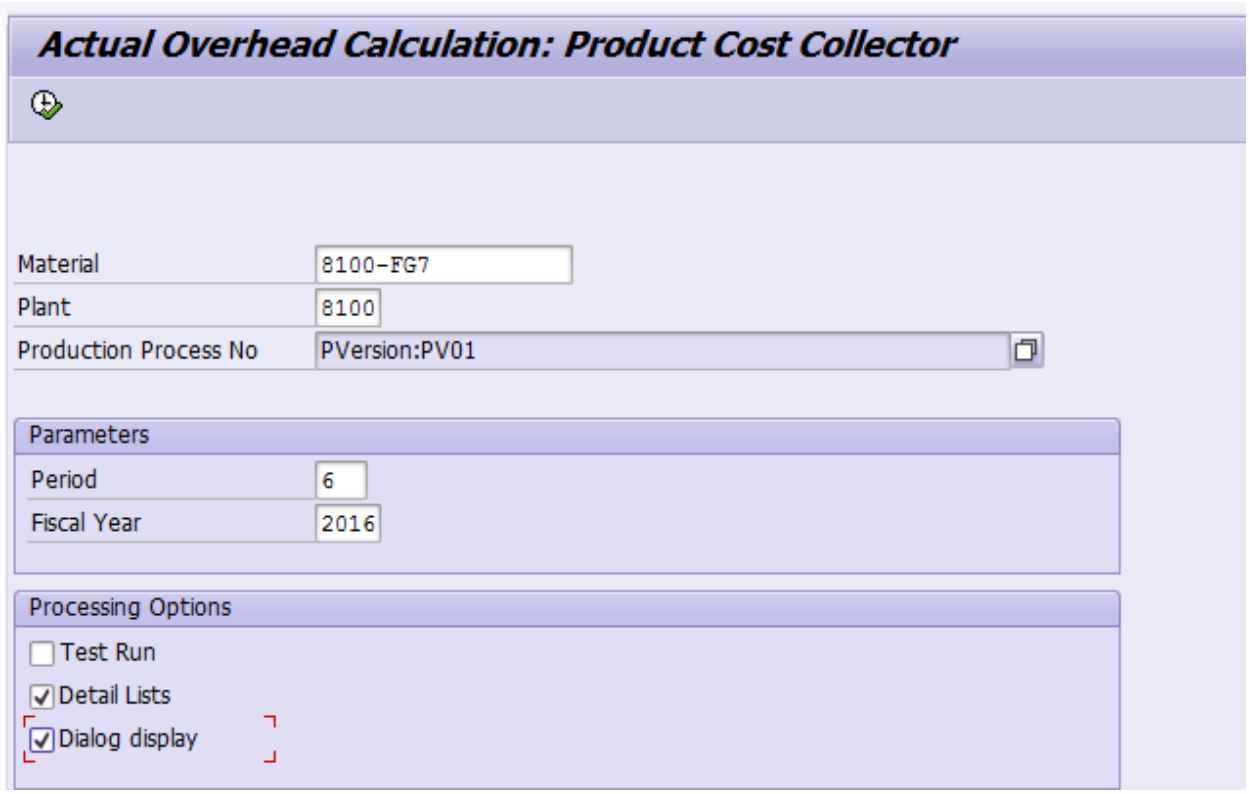
Transaction (Text)	Origin	Origin (Text)	Total target costs	Total actual costs	Target/actual var.	T/I var(%)	Currency
Confirmations	8100-FG7/LABOUR	8100-FG7 / Direct Labour	1,800.00	1,875.00	75.00	4.17	INR
	8100-FG7/POWER	8100-FG7 / Power	1,500.00	1,530.00	30.00	2.00	INR
	8100-FG7/DEPREC	8100-FG7 / Depreciation	1,000.00	1,050.00	50.00	5.00	INR
	8100-FG7/TOOLS	8100-FG7 / Tools	150.00	0.00	150.00-	100.00-	INR
	8100-FG7/ILAB	8100-FG7 / Indirect Labour	100.00	0.00	100.00-	100.00-	INR
	8100-FG7/F.RENT	8100-FG7 / Factory Rent	150.00	0.00	150.00-	100.00-	INR
Confirmations			**4,700.00**	**4,455.00**	**245.00-**		**INR**
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,200.00	200.00	10.00	INR
	8100/8100-RM2	8100-RM2	3,000.00	3,200.00	200.00	6.67	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,680.00	480.00	40.00	INR
Goods Issues			**6,200.00**	**7,080.00**	**880.00**		**INR**
Goods Receipt	8100/8100-FG7	8100-FG7	0.00	11,840.00-	11,840.00-		INR
Goods Receipt			**0.00**	**11,840.00-**	**11,840.00-**		**INR**
Overhead	8100-FG5	8100-FG5	470.00	0.00	470.00-	100.00-	INR
	8100-FG5	8100-FG5	470.00	0.00	470.00-	100.00-	INR
Overhead			**940.00**	**0.00**	**940.00-**		**INR**
Settlement		(without origin)	0.00	625.00	625.00		INR
Settlement			**0.00**	**625.00**	**625.00**		**INR**
			11,840.00	**320.00**	**11,520.00-**		**INR**

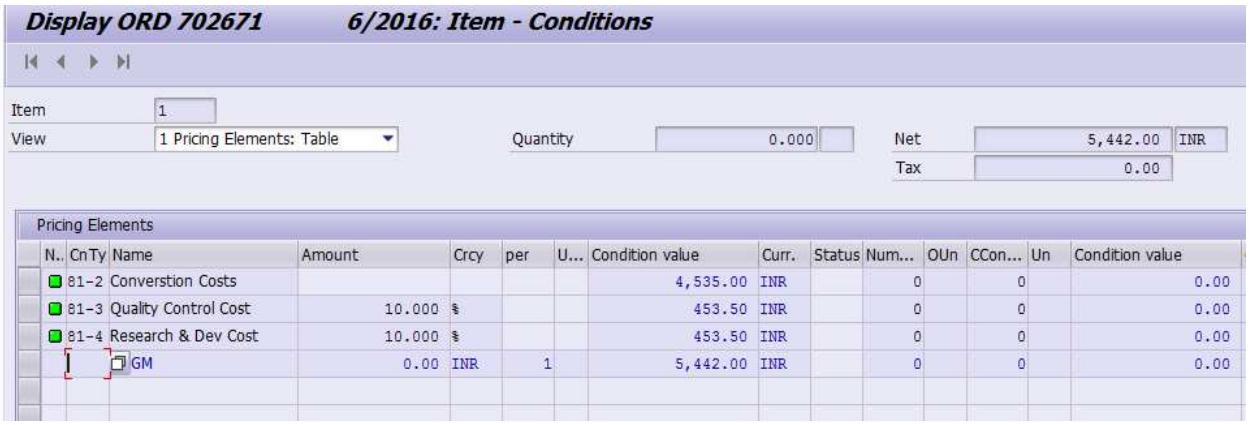
Template Allocation- CPTE - Individual Processing



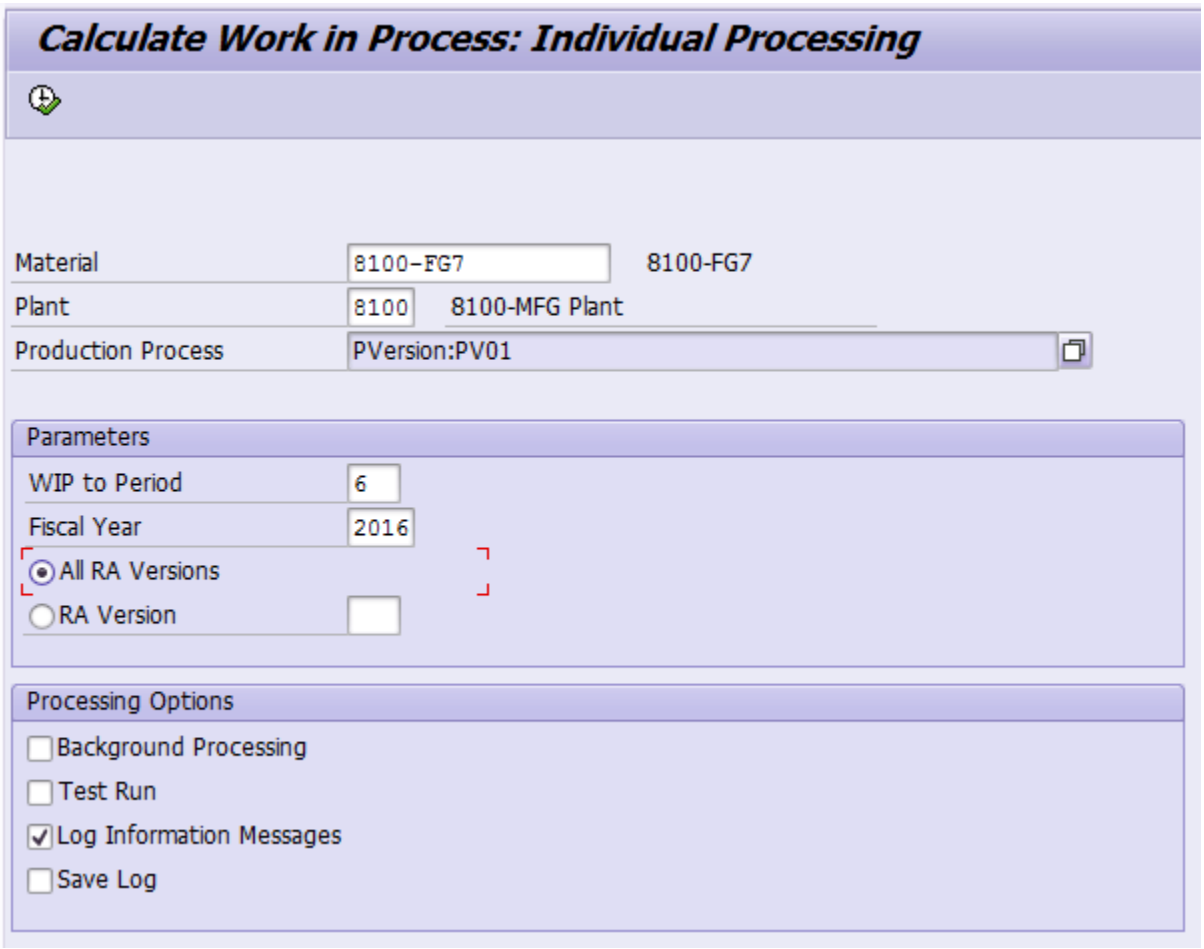


CO42 - Individual Processing- Overhead





Work in Process- KKAS – Calculate



Calculate Work in Process: Object List

Basic List | WIP Explanation | WIP Quantity Document

Exception	Cost Object	Typ	Crcy	Σ	WIP	Σ	WIP (chg)	Material
	PCC 8100-FG7/8100/100119412	I	INR		0.00		0.00	8100-FG7
	Order Type RM01				**0.00**		**0.00**	
	Plant 8100				**0.00**		**0.00**	
			INR		**0.00**		**0.00**	

Variances- KKS6 - Individual Processing

Variance Calculation: Initial Screen

Material	8100-FG7	8100-FG7
Plant	8100	8100-MFG Plant
Prod. Proc. No.	Version:PV01	

Parameters

Period	6	
Fiscal Year	2016	
(•) All target cost vsns		000
( ) Selected Target Cost Vsns		

Processing options

- [ ] Test Run
- [x] Detail list

Variance Calculation: List

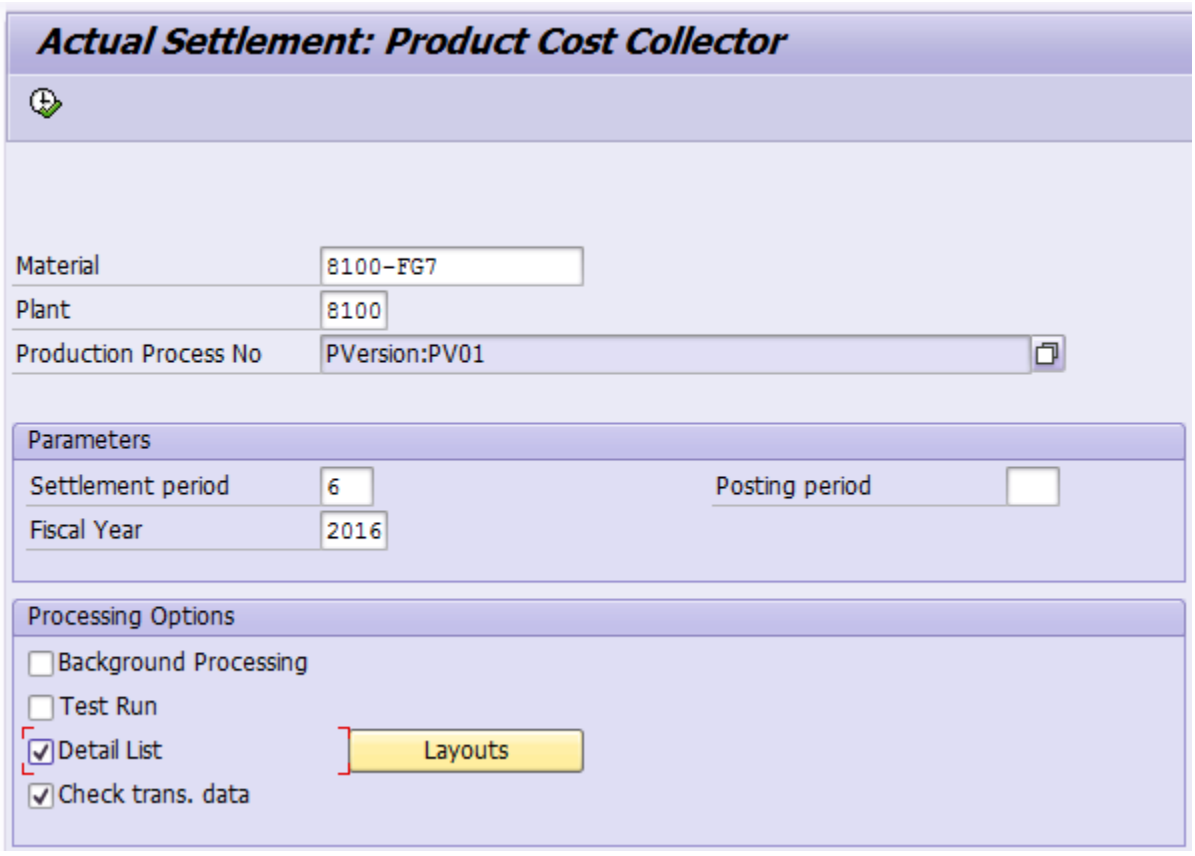
Basic List | Cost Elements | Scrap | Variance Categories

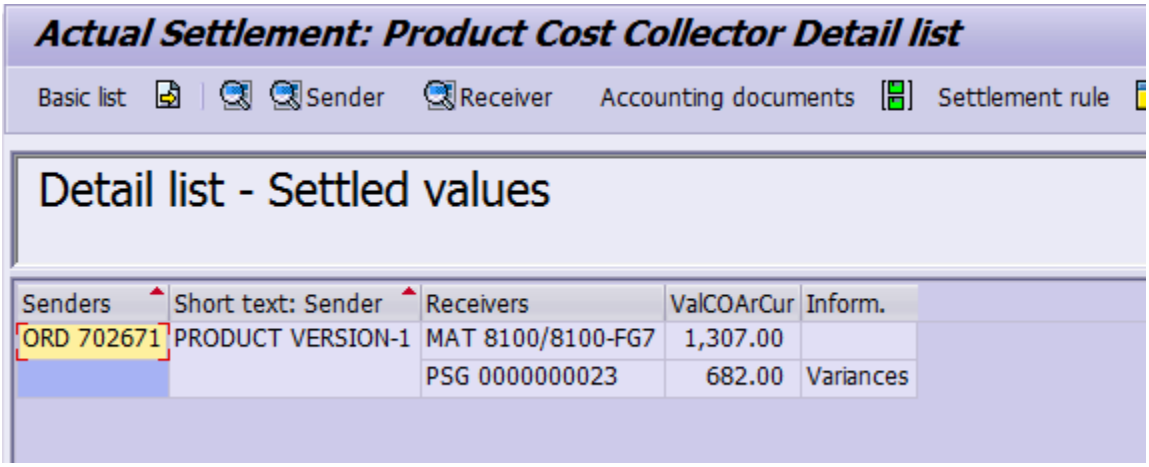
Period 6 Fiscal year 2016 Messages 1 ◇ Currency INR

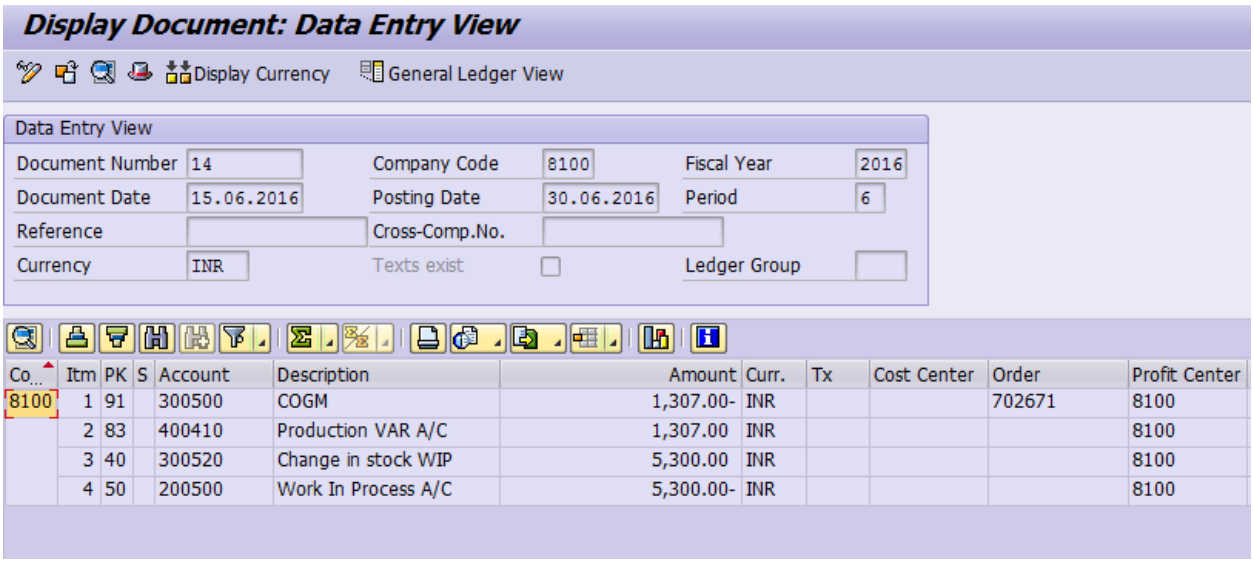
Version 0 Target Cost Version (0) | 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
8100	PCC 8100-FG7/8100/100119412	11,840.00	12,522.00	11,840.00	0.00	0.00	682.00

Settlement- KK87 - Individual Processing







Display Document: Data Entry View

Display Currency | General Ledger View

Data Entry View

Document Number	14	Company Code	8100	Fiscal Year	2016
Document Date	15.06.2016	Posting Date	30.06.2016	Period	6
Reference		Cross-Comp.No.			
Currency	INR	Texts exist	☐	Ledger Group	

Co...	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order	Profit Center
8100	1	91		300500	COGM	1,307.00-	INR			702671	8100
	2	83		400410	Production VAR A/C	1,307.00	INR				8100
	3	40		300520	Change in stock WIP	5,300.00	INR				8100
	4	50		200500	Work In Process A/C	5,300.00-	INR				8100

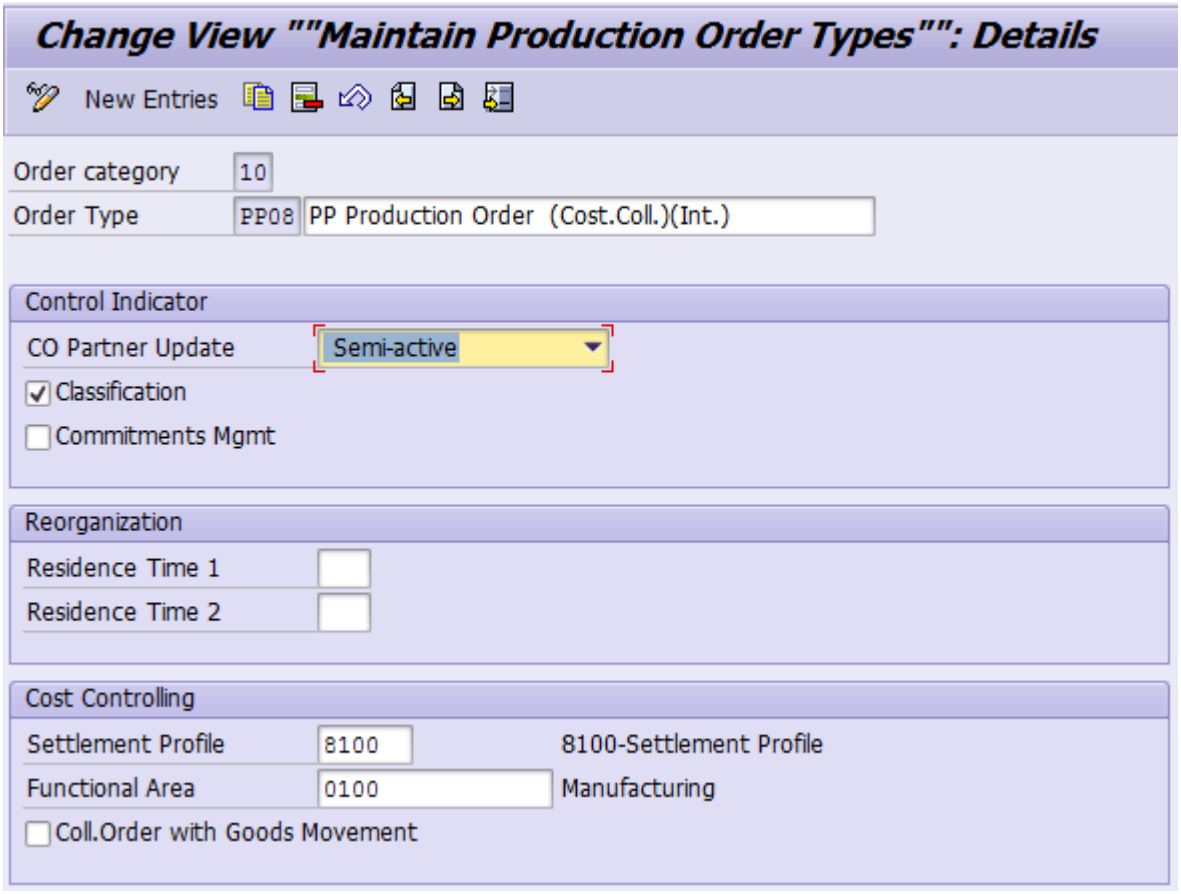
Process Costing- Product Cost By Period

3). Decoupling Scenario

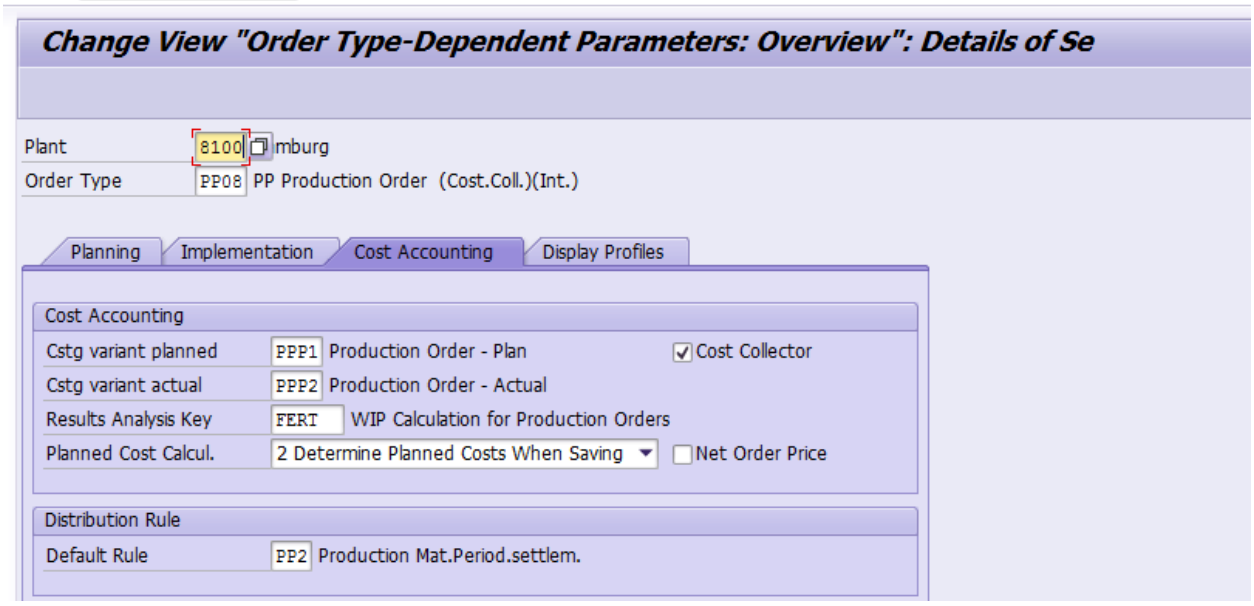
(Combination of Production Order and Product Cost Collector)

Configuration

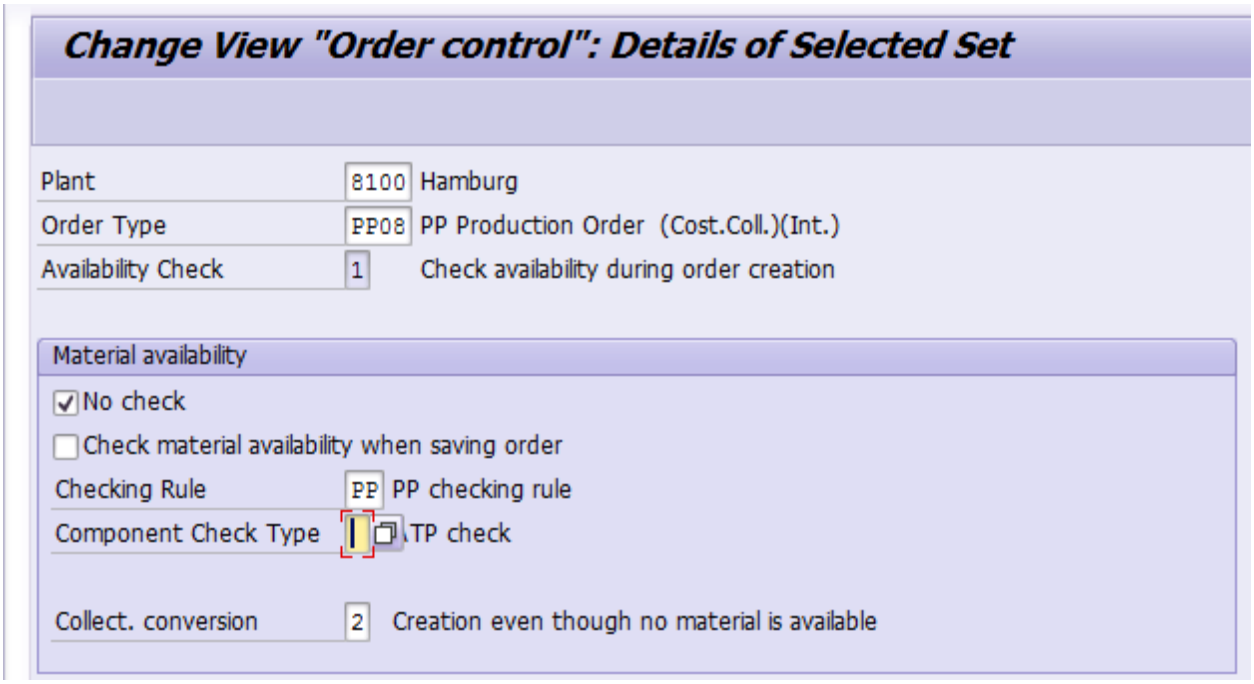
Define Order Types

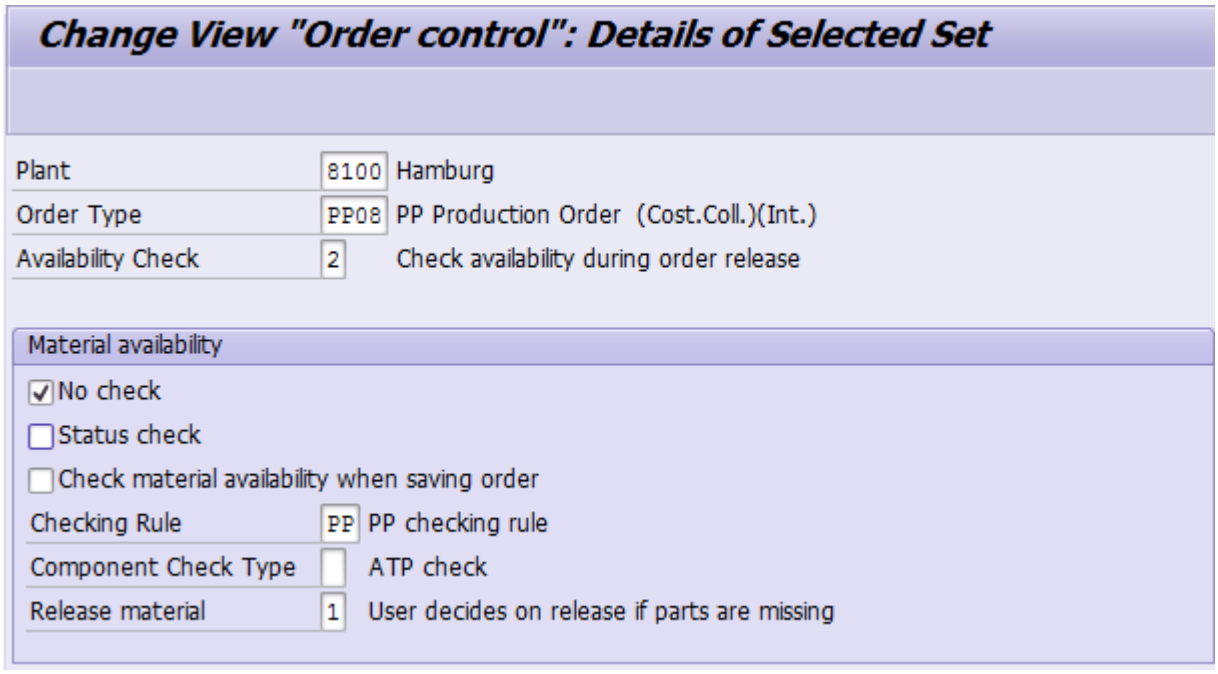


Define order type-dependent parameters

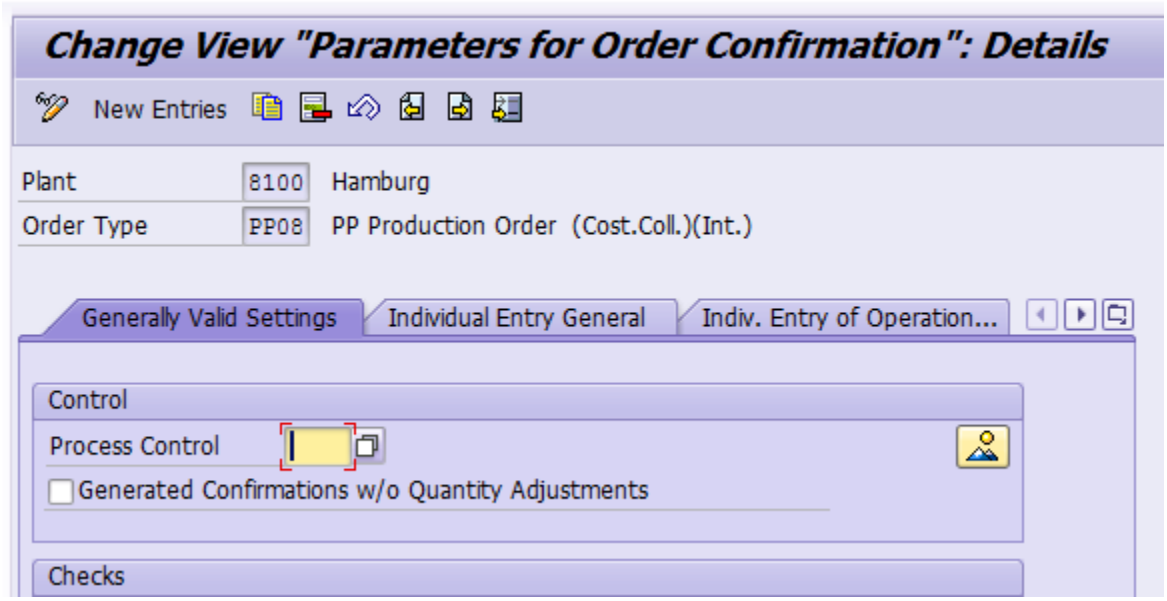


Define Checking Control-OPJK





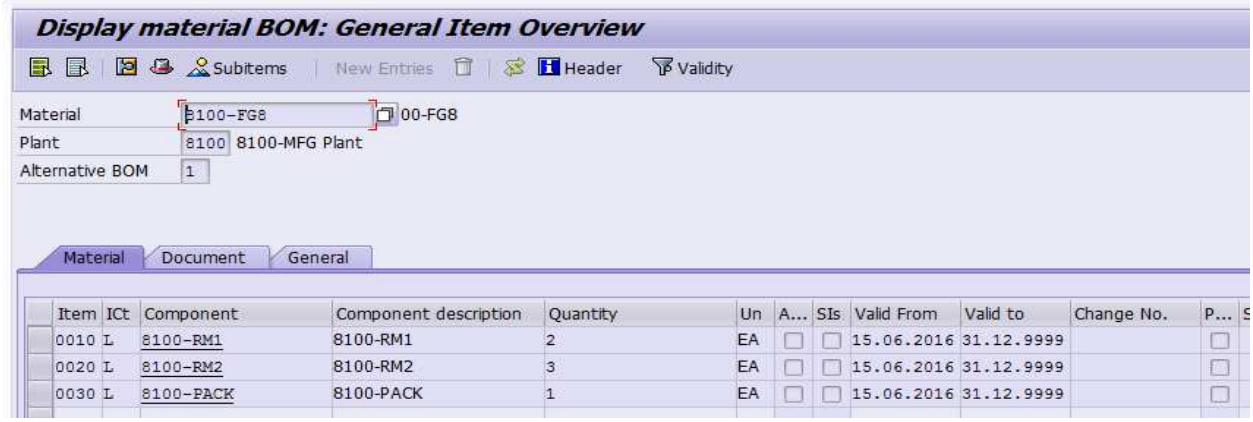
Define Confirmation Parameters-OPK4



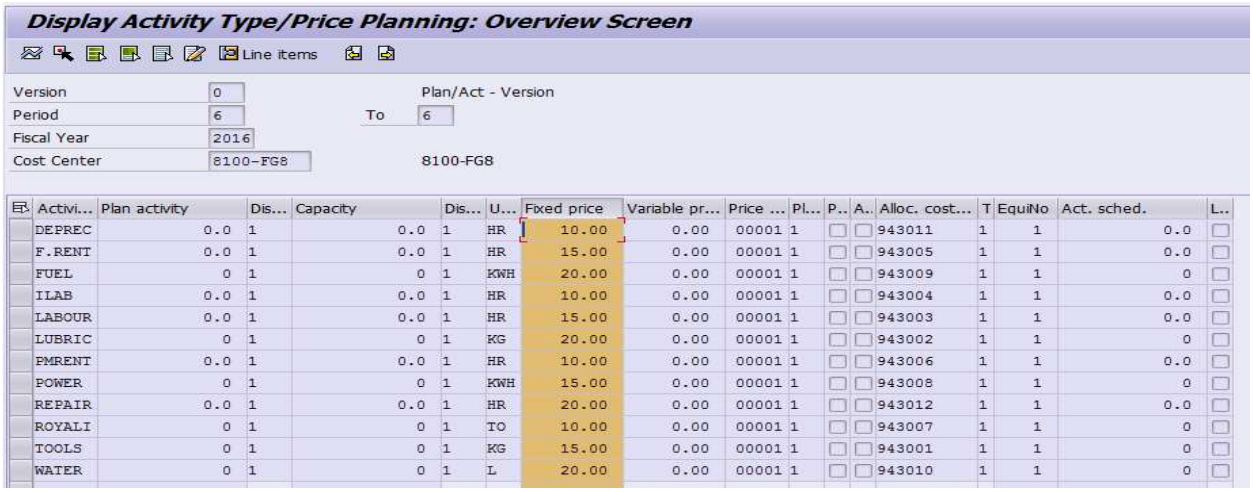
TESTING-Material Master

Here Not required Production Version and Repetitive mfg check box, because this is no repetitive mfg. process.

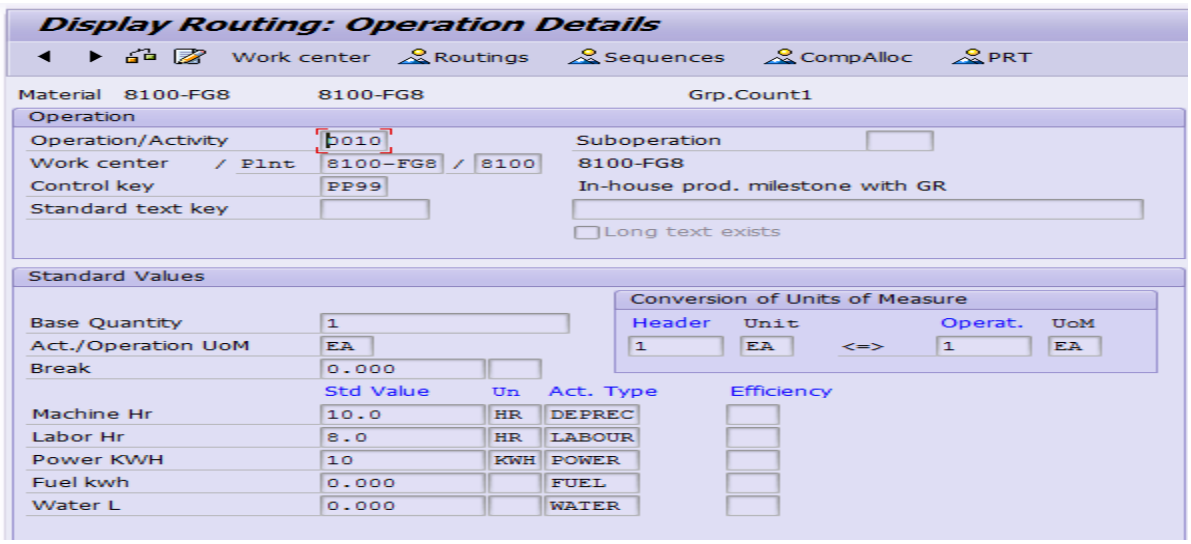
CS01



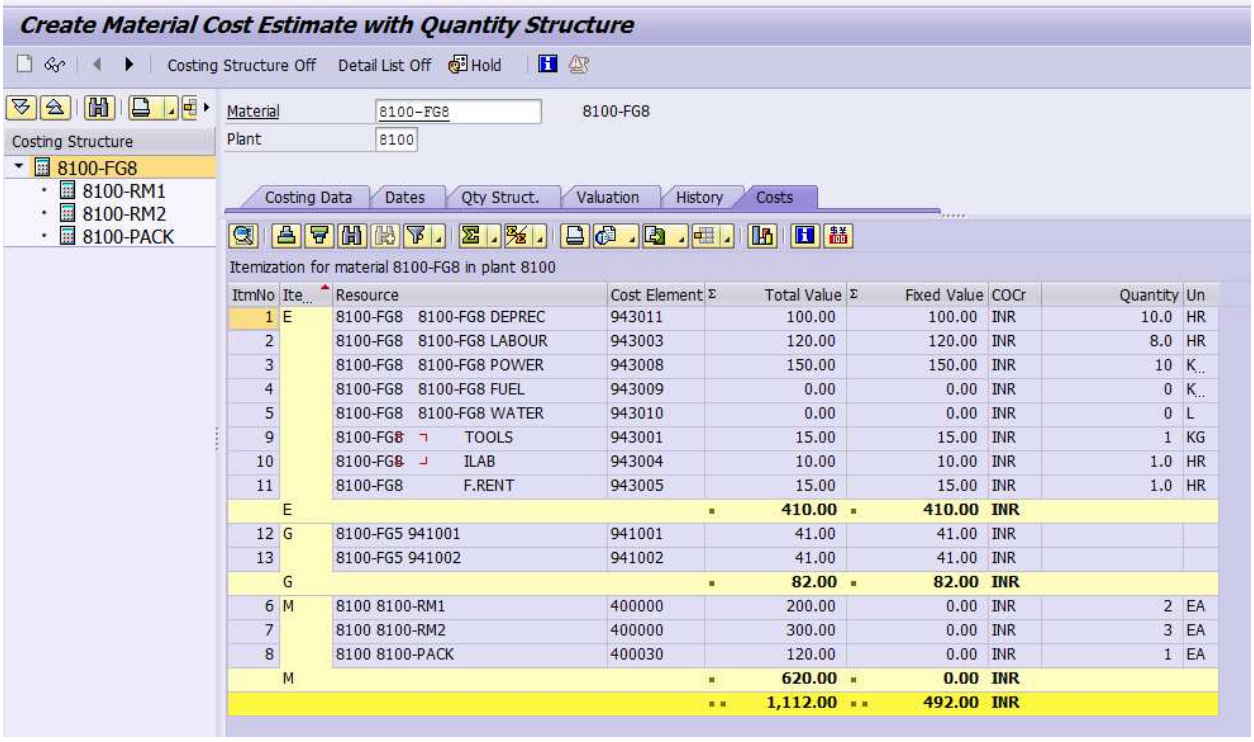
KP27



CA01

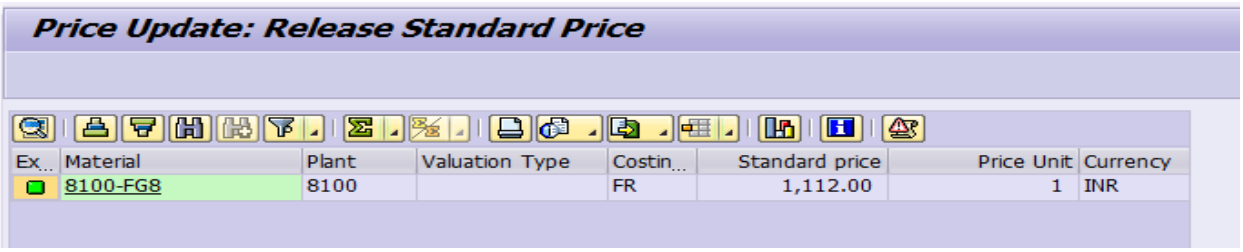


CK11N



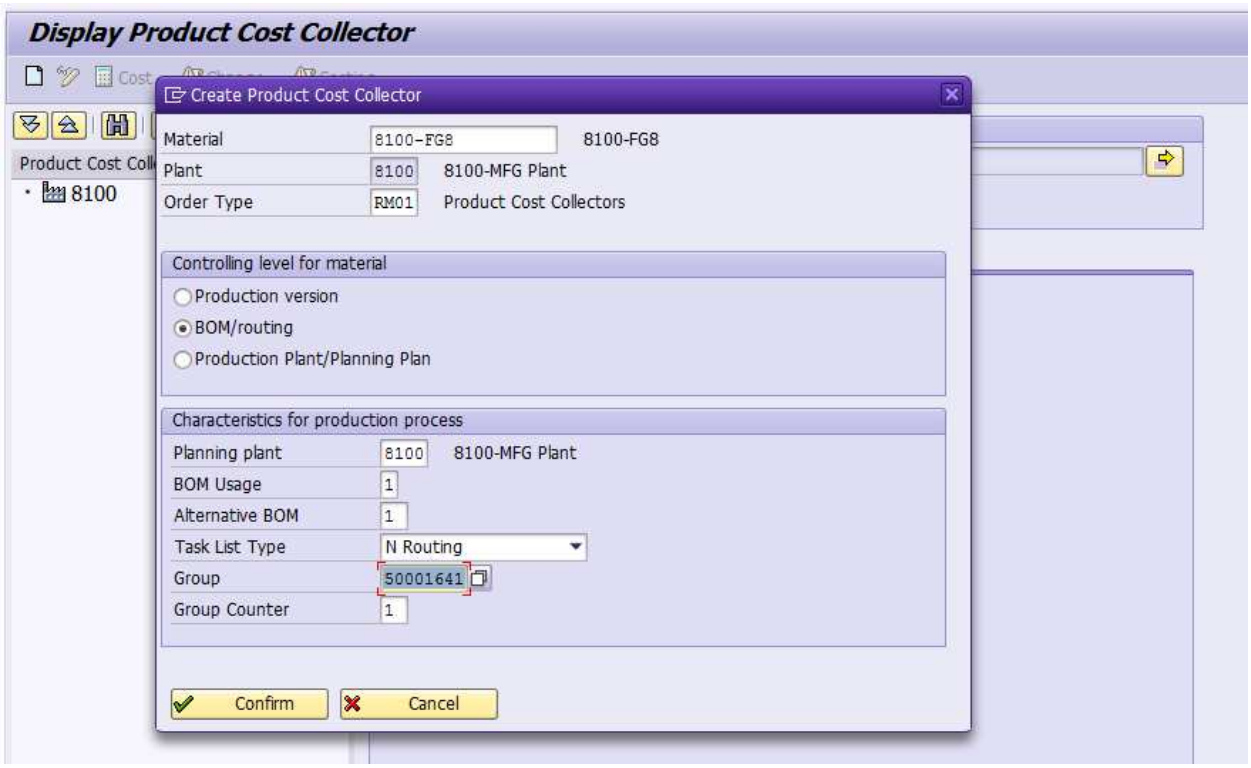
ItmNo	Ite...	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	E	8100-FG8 8100-FG8 DEPREC	943011	100.00	100.00	INR	10.0	HR
2		8100-FG8 8100-FG8 LABOUR	943003	120.00	120.00	INR	8.0	HR
3		8100-FG8 8100-FG8 POWER	943008	150.00	150.00	INR	10	K..
4		8100-FG8 8100-FG8 FUEL	943009	0.00	0.00	INR	0	K..
5		8100-FG8 8100-FG8 WATER	943010	0.00	0.00	INR	0	L
9		8100-FG8 TOOLS	943001	15.00	15.00	INR	1	KG
10		8100-FG8 ILAB	943004	10.00	10.00	INR	1.0	HR
11		8100-FG8 F.RENT	943005	15.00	15.00	INR	1.0	HR
	E			**410.00**	**410.00**	**INR**		
12	G	8100-FG5 941001	941001	41.00	41.00	INR		
13		8100-FG5 941002	941002	41.00	41.00	INR		
	G			**82.00**	**82.00**	**INR**		
6	M	8100 8100-RM1	400000	200.00	0.00	INR	2	EA
7		8100 8100-RM2	400000	300.00	0.00	INR	3	EA
8		8100 8100-PACK	400030	120.00	0.00	INR	1	EA
	M			**620.00**	**0.00**	**INR**		
				1,112.00	**492.00**	**INR**		

CK24-Rleased Standard Cost estimation

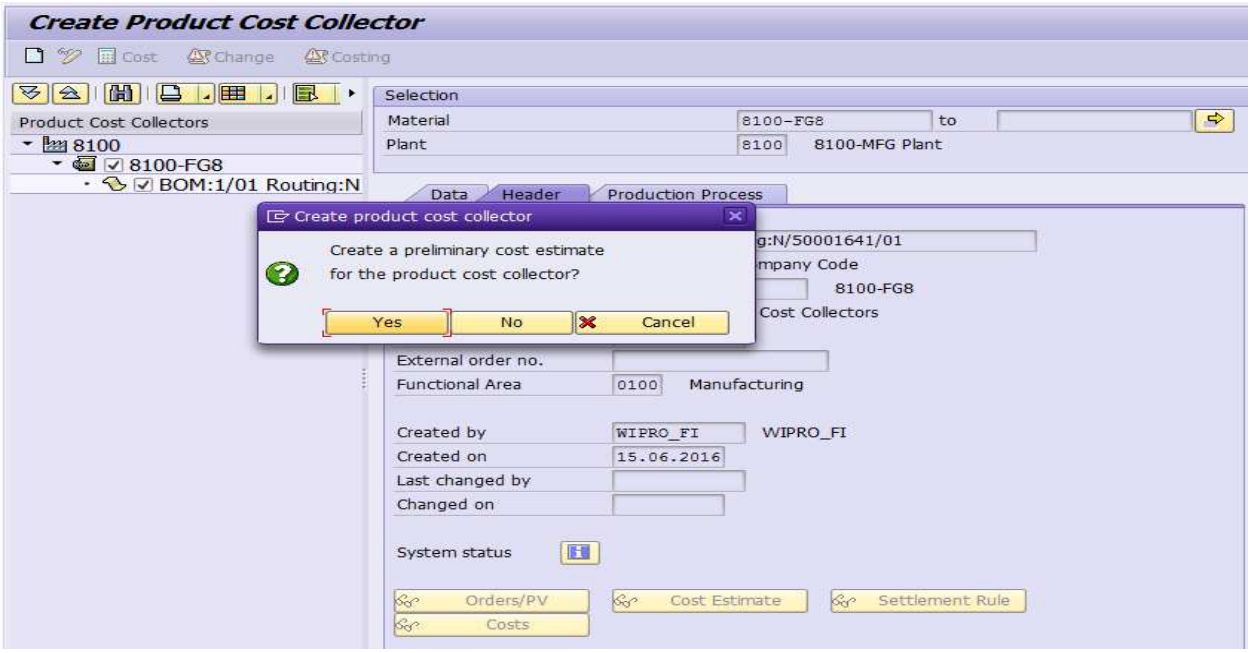


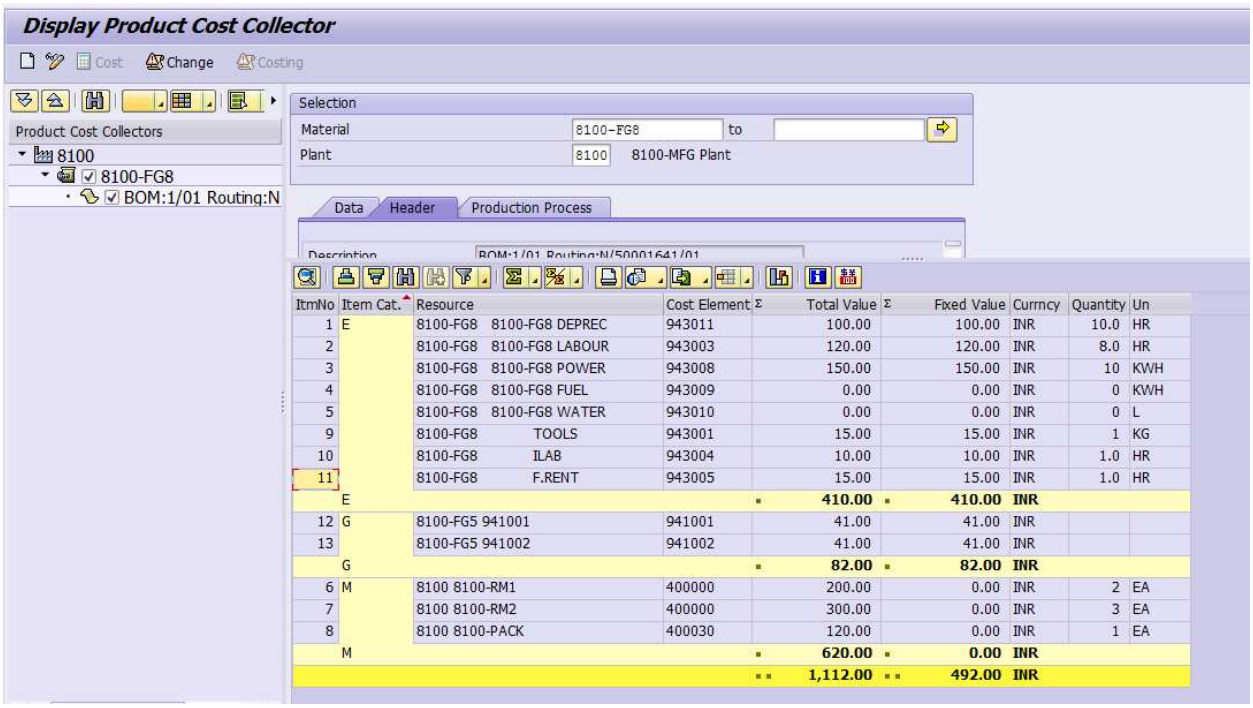
Ex...	Material	Plant	Valuation Type	Costin...	Standard price	Price Unit	Currency
	8100-FG8	8100		FR	1,112.00	1	INR

KKF6N

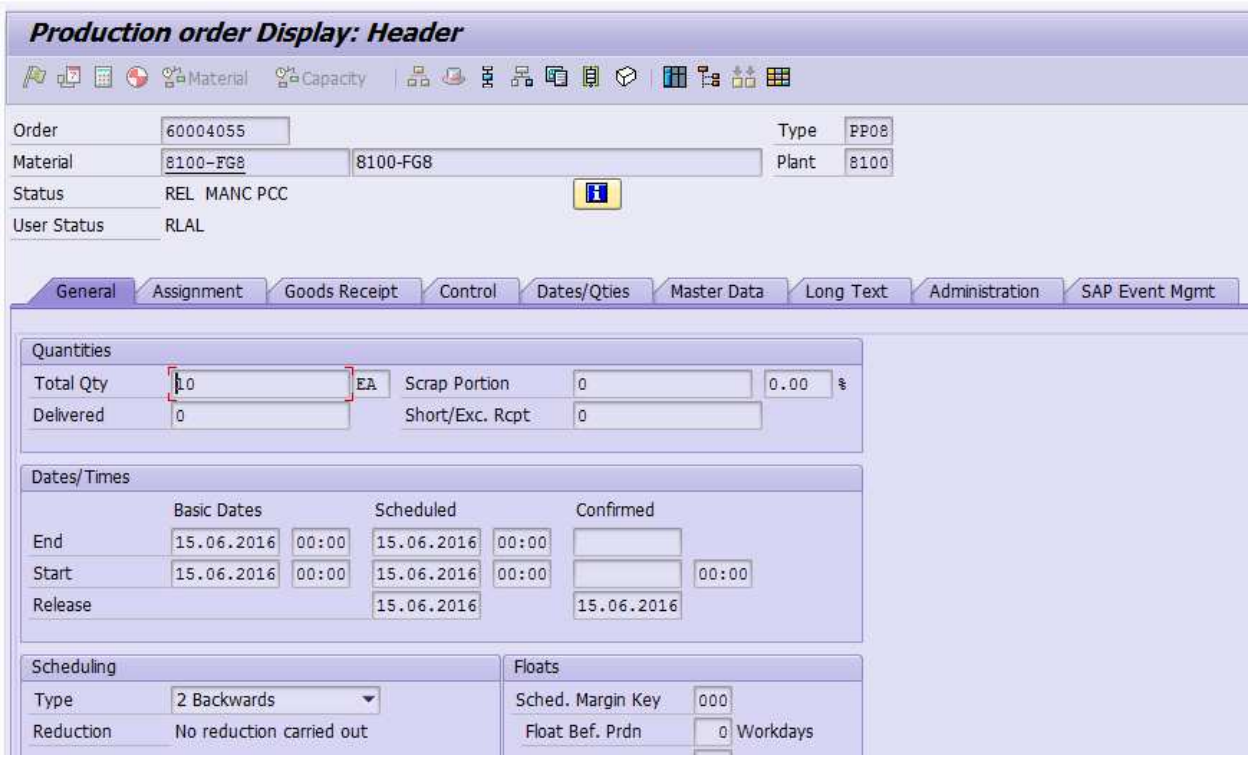


Here instead of Selecting Production Version at Controlling Level for Material select Radio Button BOM/routing and Characteristics for Production process as BOM and Routing Manually.



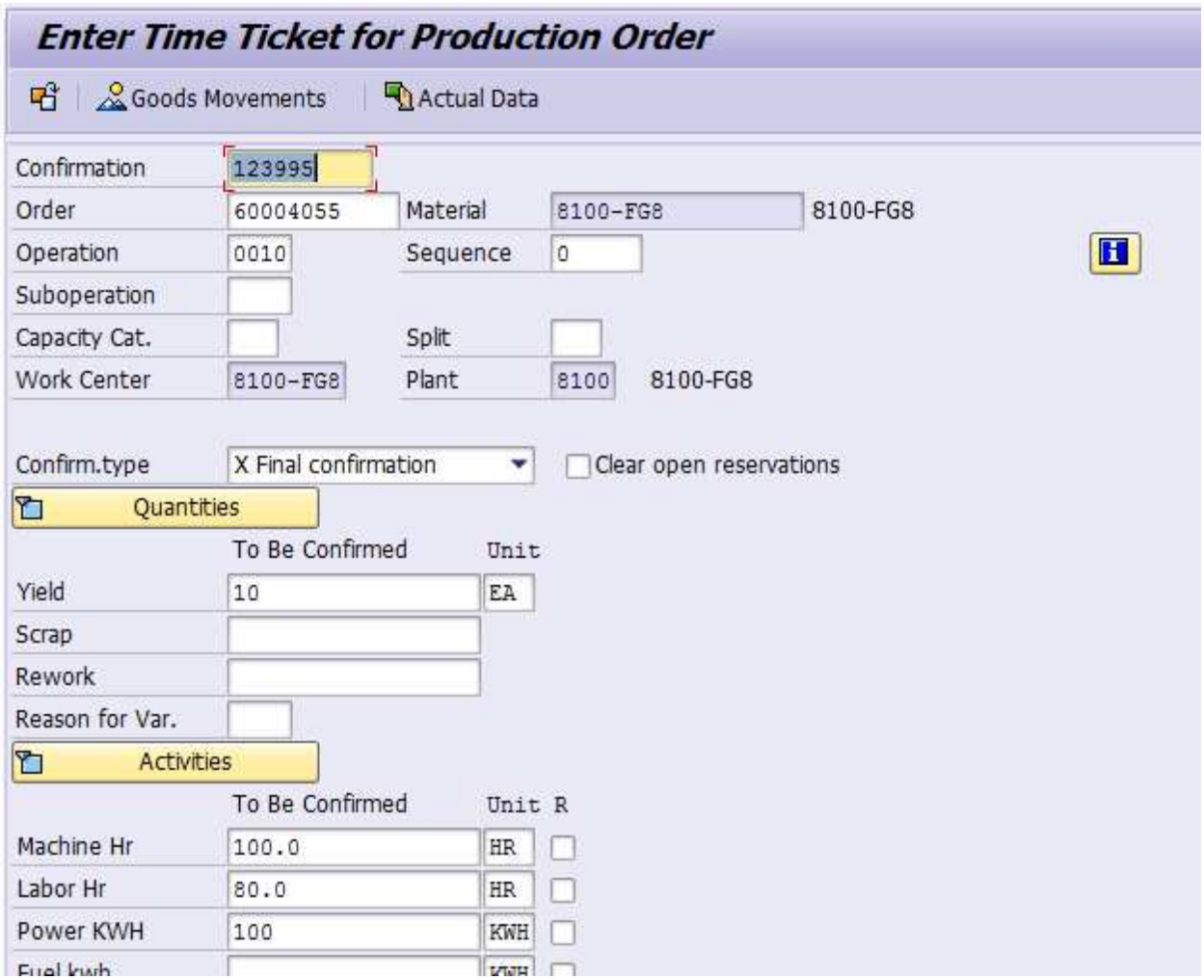


Now Production Order Creation with Order type-PP08

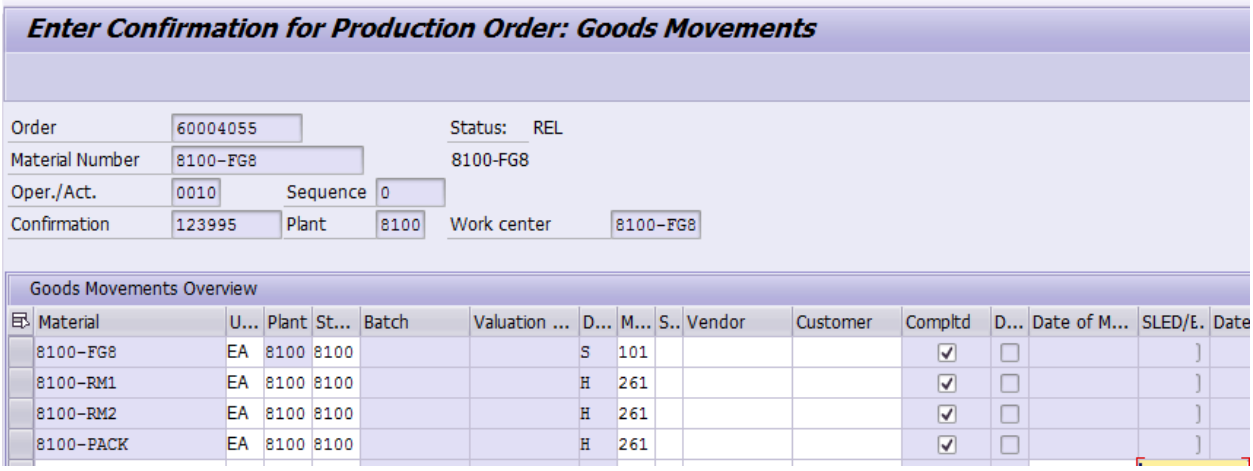


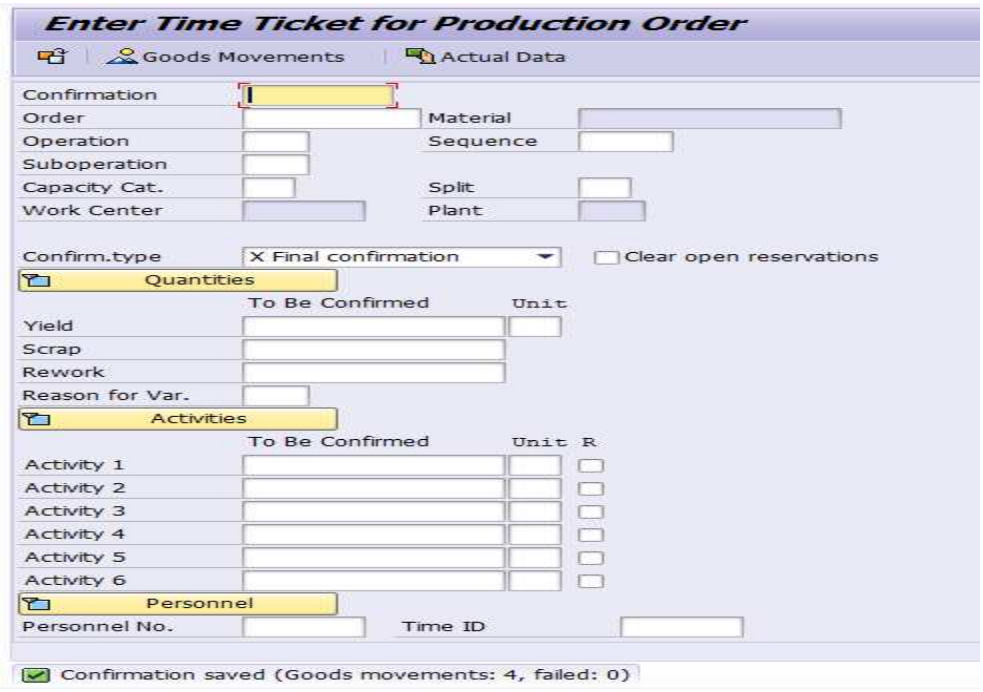
In Control Data Tab we can see Product Cost Collector tab, this is link between production order and product cost colleter.That why this process is called De-Coupling Scenario.

Production Confirmation –CO11N for Production Order



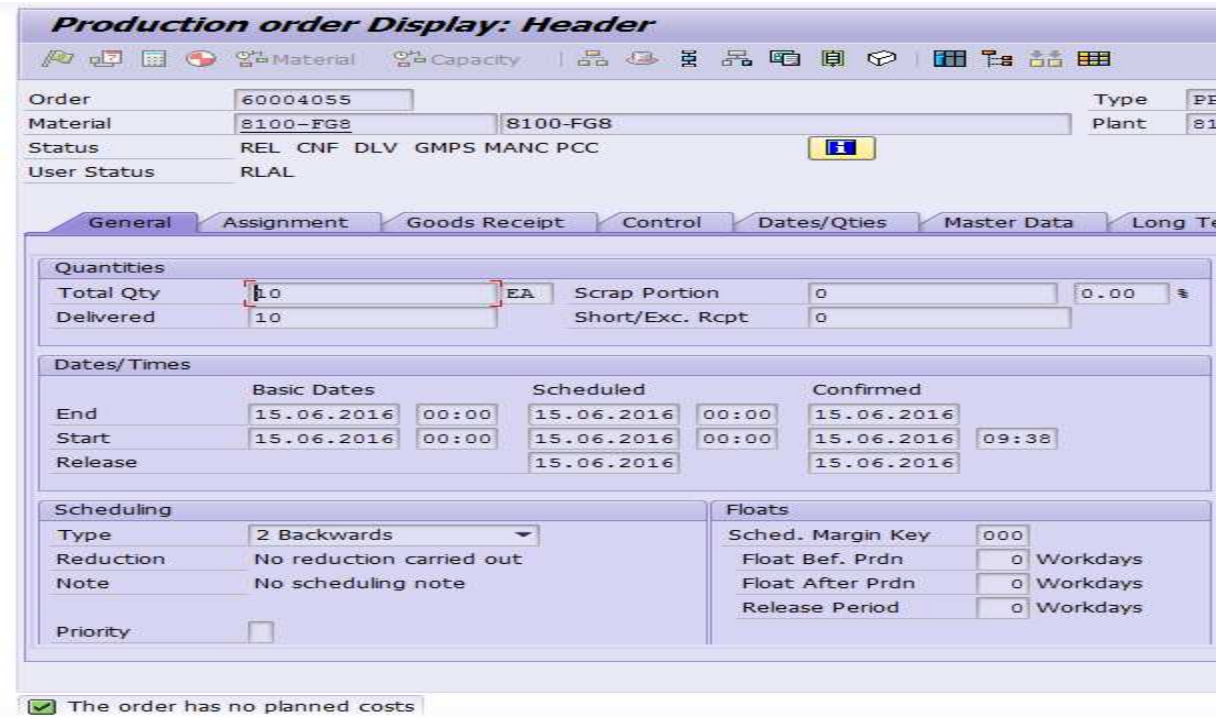
Materials GI & GR will be done



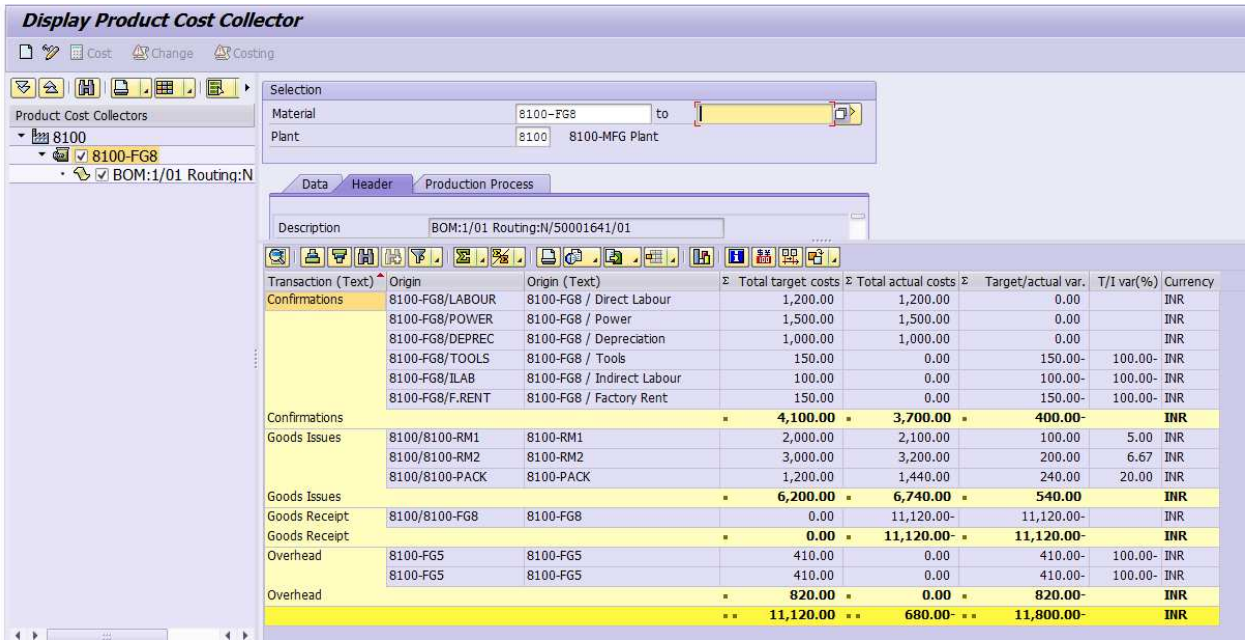


Confirmation got saved. But this entire actual cost as Actual Material Cost, Activity Cost and Goods receipt not updating in Production Order. That Expenses indirectly booked to Product Cost Collector

CO03

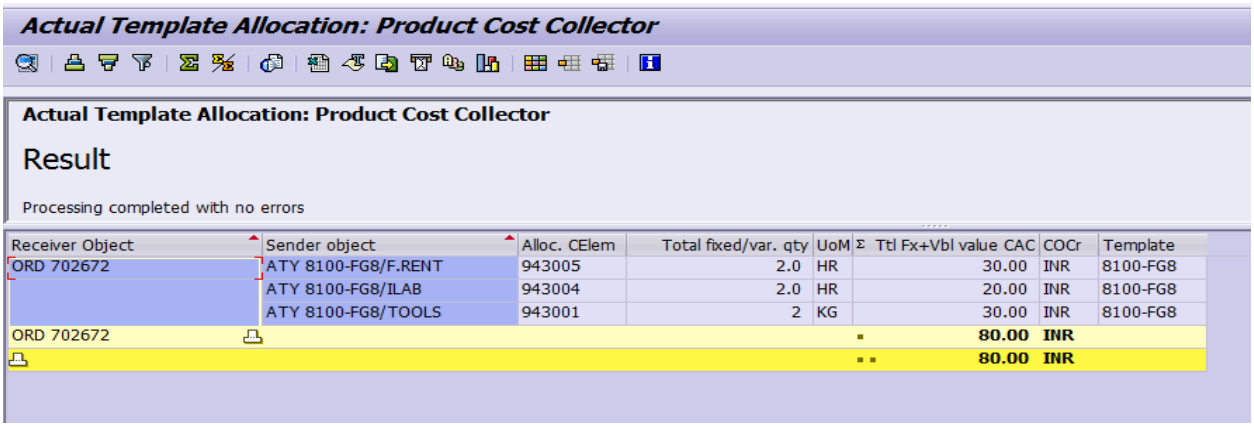


KKF6N



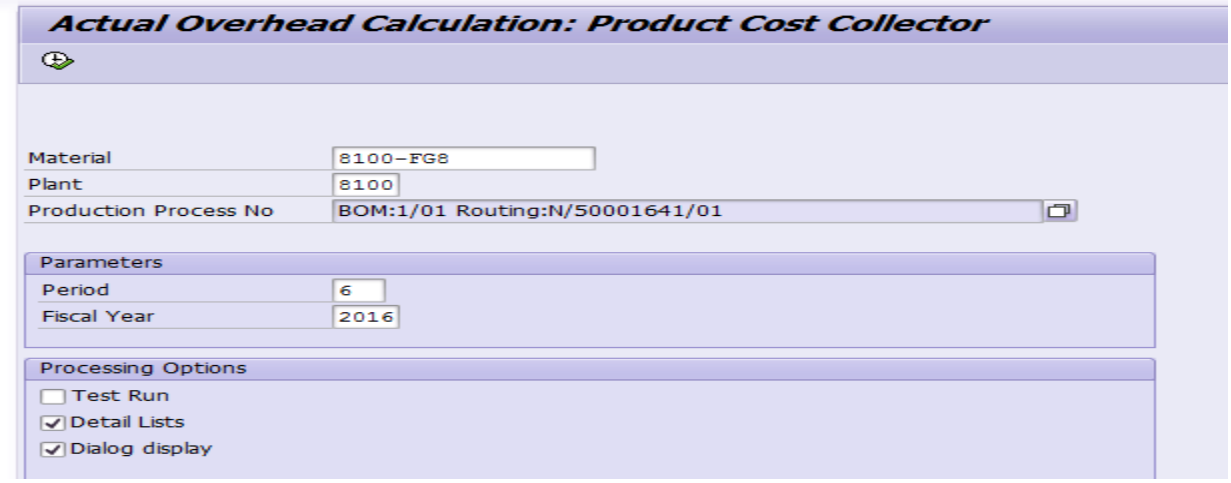
Transaction (Text)	Origin	Origin (Text)	Total target costs	Total actual costs	Target/actual var.	T/I var(%)	Currency
Confirmations	8100-FG8/LABOUR	8100-FG8 / Direct Labour	1,200.00	1,200.00	0.00		INR
	8100-FG8/POWER	8100-FG8 / Power	1,500.00	1,500.00	0.00		INR
	8100-FG8/DEPREC	8100-FG8 / Depreciation	1,000.00	1,000.00	0.00		INR
	8100-FG8/TOOLS	8100-FG8 / Tools	150.00	0.00	150.00-	100.00-	INR
	8100-FG8/ILAB	8100-FG8 / Indirect Labour	100.00	0.00	100.00-	100.00-	INR
	8100-FG8/F.RENT	8100-FG8 / Factory Rent	150.00	0.00	150.00-	100.00-	INR
Confirmations			**4,100.00**	**3,700.00**	**400.00-**		**INR**
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,100.00	100.00	5.00	INR
	8100/8100-RM2	8100-RM2	3,000.00	3,200.00	200.00	6.67	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**6,200.00**	**6,740.00**	**540.00**		**INR**
Goods Receipt	8100/8100-FG8	8100-FG8	0.00	11,120.00-	11,120.00-		INR
Goods Receipt			**0.00**	**11,120.00-**	**11,120.00-**		**INR**
Overhead	8100-FG5	8100-FG5	410.00	0.00	410.00-	100.00-	INR
	8100-FG5	8100-FG5	410.00	0.00	410.00-	100.00-	INR
Overhead			**820.00**	**0.00**	**820.00-**		**INR**
			11,120.00	**680.00-**	**11,800.00-**		**INR**

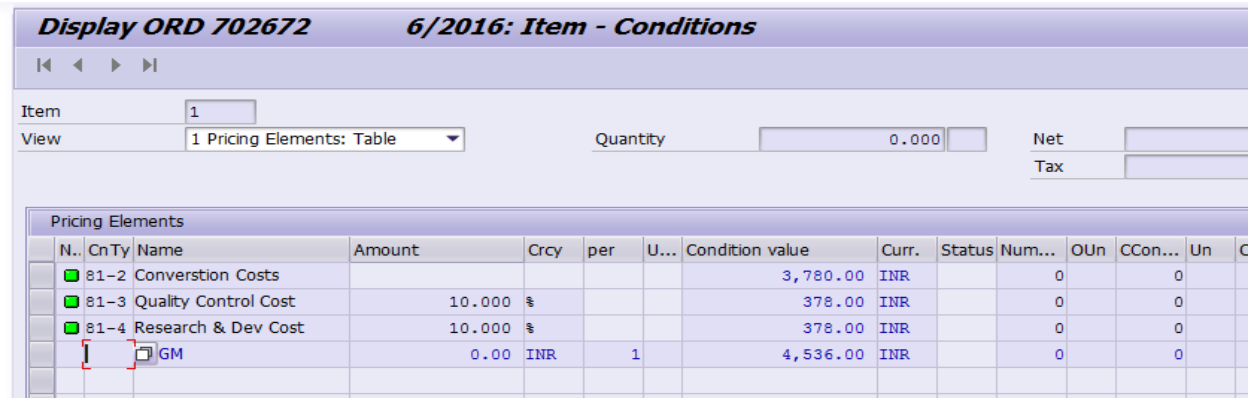
Template Allocation- CPTE - Individual Processing



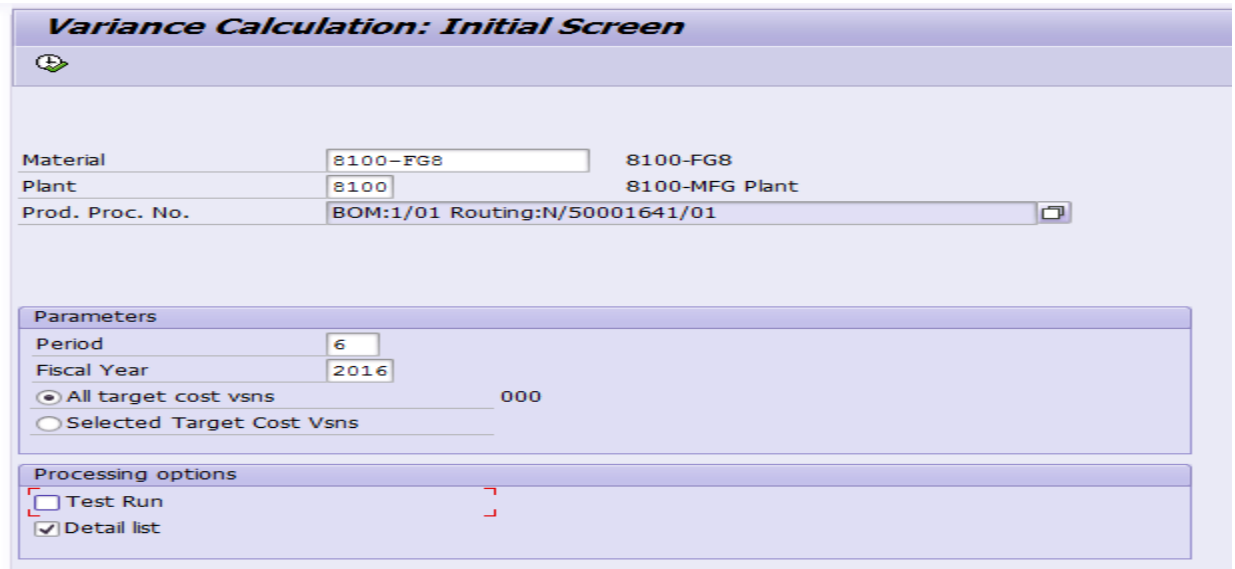
Receiver Object	Sender object	Alloc. CElem	Total fixed/var. qty	UoM	Ttl Fx+Vbl value CAC	COCr	Template
ORD 702672	ATY 8100-FG8/F.RENT	943005	2.0	HR	30.00	INR	8100-FG8
	ATY 8100-FG8/ILAB	943004	2.0	HR	20.00	INR	8100-FG8
	ATY 8100-FG8/TOOLS	943001	2	KG	30.00	INR	8100-FG8
ORD 702672					**80.00**	**INR**	
					80.00	**INR**	

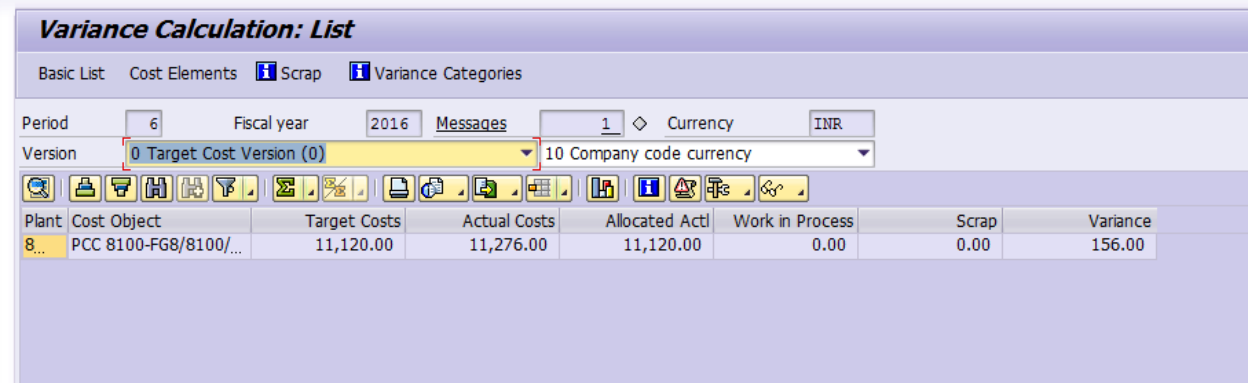
Overhead- CO42 - Individual Processing



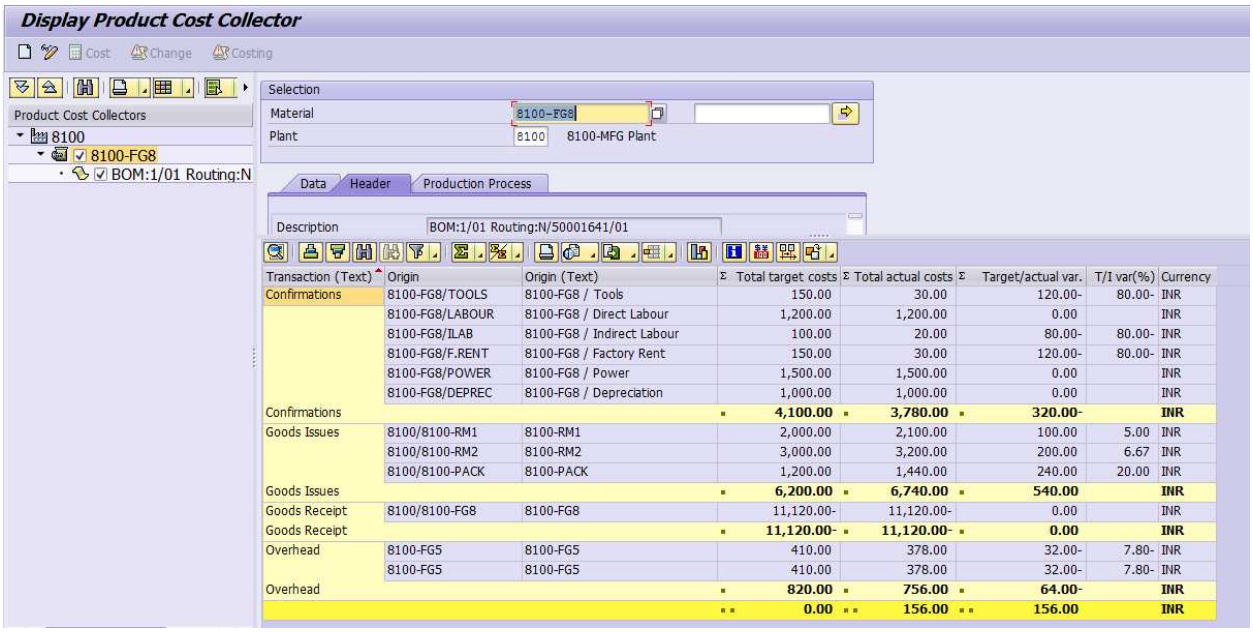


Variances-KKS6 - Individual Processing

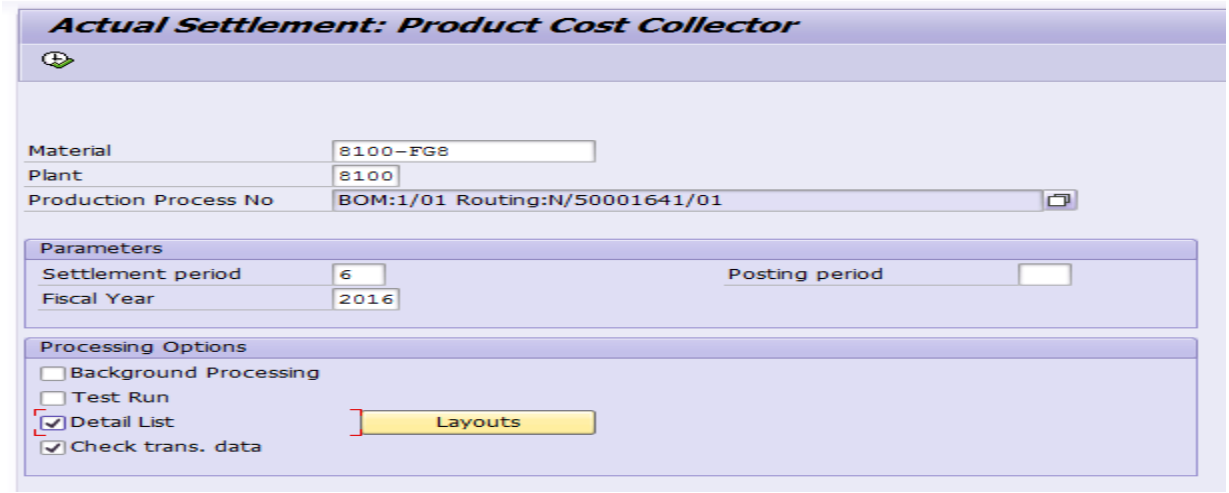




KKF6N



Settlement-KK87 - Individual Processing



Actual Settlement: Product Cost Collector Detail list

Basic list | Sender | Receiver | Accounting documents | Settlement rule | Save | Select

Detail list - Settled values

Senders	Short text: Sender	Receivers	ValCOArCur	Inform.
ORD 702672	BOM:1/01 Routing:N/50001641/01	MAT 8100/8100-FG8	156.00	
		PSG 0000000025	156.00	Variances

Display Document: Data Entry View

Display Currency | General Ledger View

Data Entry View

Document Number	15	Company Code	8100	Fiscal Year	2016
Document Date	15.06.2016	Posting Date	30.06.2016	Period	6
Reference		Cross-Comp.No.			
Currency	INR	Texts exist	☐	Ledger Group	

Co...	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order	Profit Center	Segment
8100	1	91		300500	COGM	156.00-	INR			702672	8100	
	2	83		400410	Production VAR A/C	156.00	INR				8100	

KKF6N

Display Product Cost Collector

Cost | Change | Costing

Product Cost Collectors

- 8100
  - 8100-FG8
    - BOM:1/01 Routing:N

Selection

Material 8100-FG8 to

Plant 8100 8100-MFG Plant

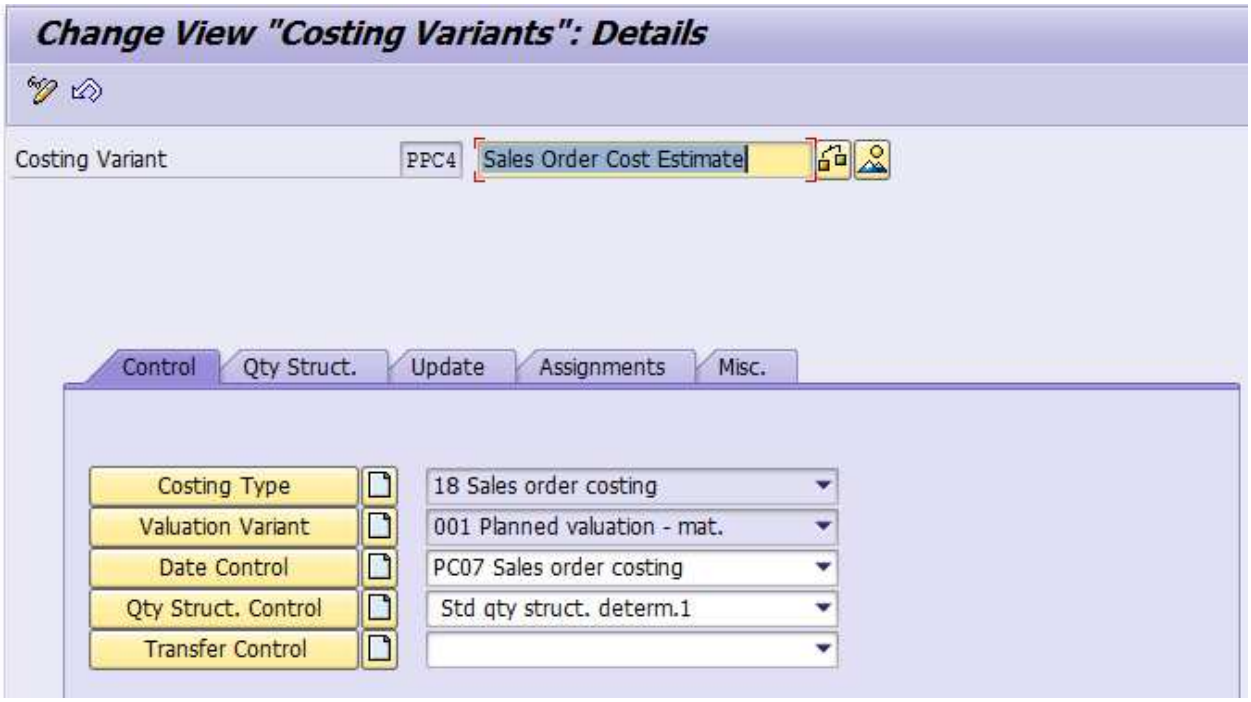
Transaction (Text)	Origin	Origin (Text)	Total target costs	Total actual costs	Target/actual var.	T/I var(%)	Currency
Confirmations	8100-FG8/TOOLS	8100-FG8 / Tools	150.00	30.00	120.00-	80.00-	INR
	8100-FG8/LABOUR	8100-FG8 / Direct Labour	1,200.00	1,200.00	0.00		INR
	8100-FG8/ILAB	8100-FG8 / Indirect Labour	100.00	20.00	80.00-	80.00-	INR
	8100-FG8/F.RENT	8100-FG8 / Factory Rent	150.00	30.00	120.00-	80.00-	INR
	8100-FG8/POWER	8100-FG8 / Power	1,500.00	1,500.00	0.00		INR
	8100-FG8/DEPREC	8100-FG8 / Depreciation	1,000.00	1,000.00	0.00		INR
Confirmations			**4,100.00**	**3,780.00**	**320.00-**		**INR**
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,100.00	100.00	5.00	INR
	8100/8100-RM2	8100-RM2	3,000.00	3,200.00	200.00	6.67	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**6,200.00**	**6,740.00**	**540.00**		**INR**
Goods Receipt	8100/8100-FG8	8100-FG8	11,120.00-	11,120.00-	0.00		INR
Goods Receipt			**11,120.00-**	**11,120.00-**	**0.00**		**INR**
Overhead	8100-FG5	8100-FG5	410.00	378.00	32.00-	7.80-	INR
	8100-FG5	8100-FG5	410.00	378.00	32.00-	7.80-	INR
Overhead			**820.00**	**756.00**	**64.00-**		**INR**
Settlement		(without origin)	0.00	156.00-	156.00-		INR
Settlement			**0.00**	**156.00-**	**156.00-**		**INR**
			0.00	**0.00**	**0.00**		**INR**

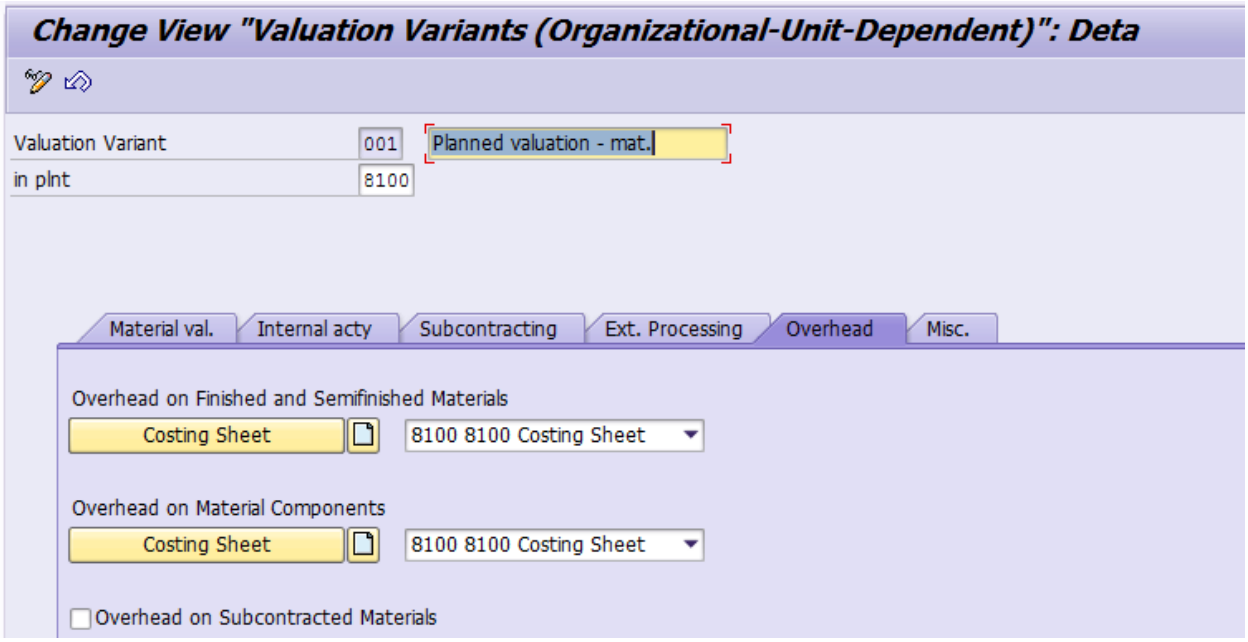
Job Costing

Product Cost by Sales order

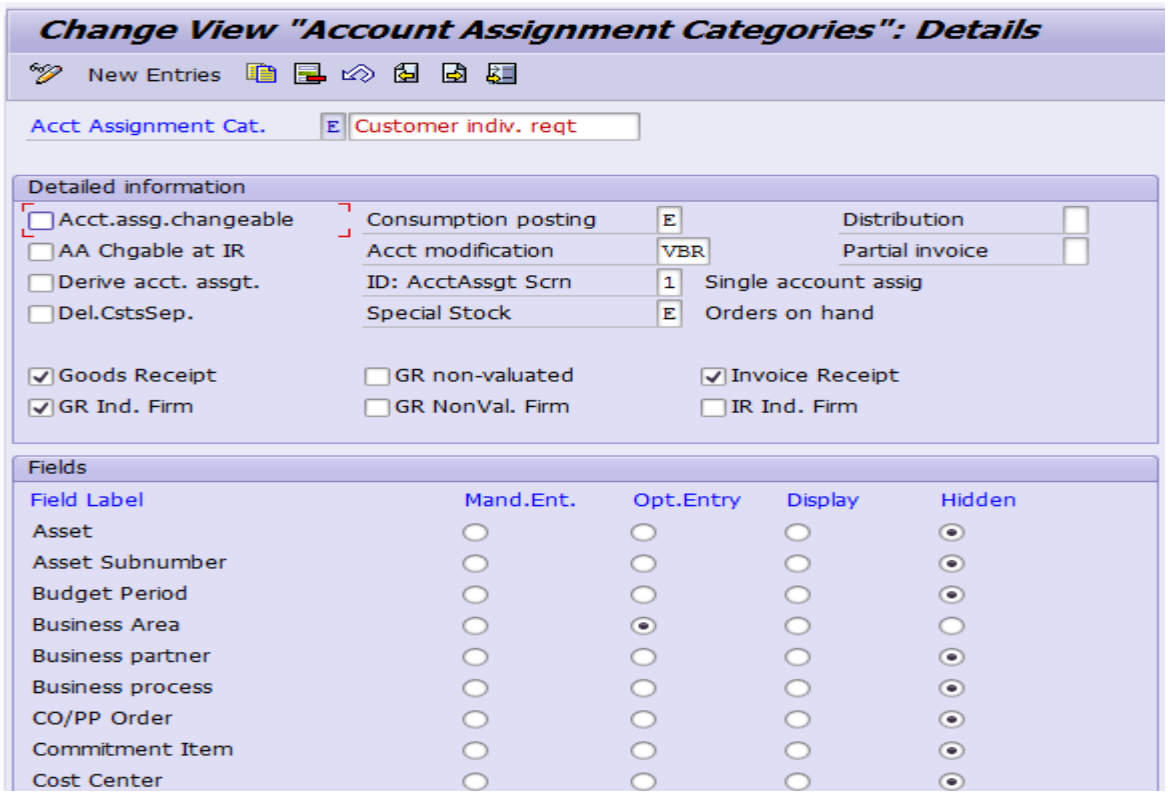
1). Sales orders without Controlling and Valuated inventory

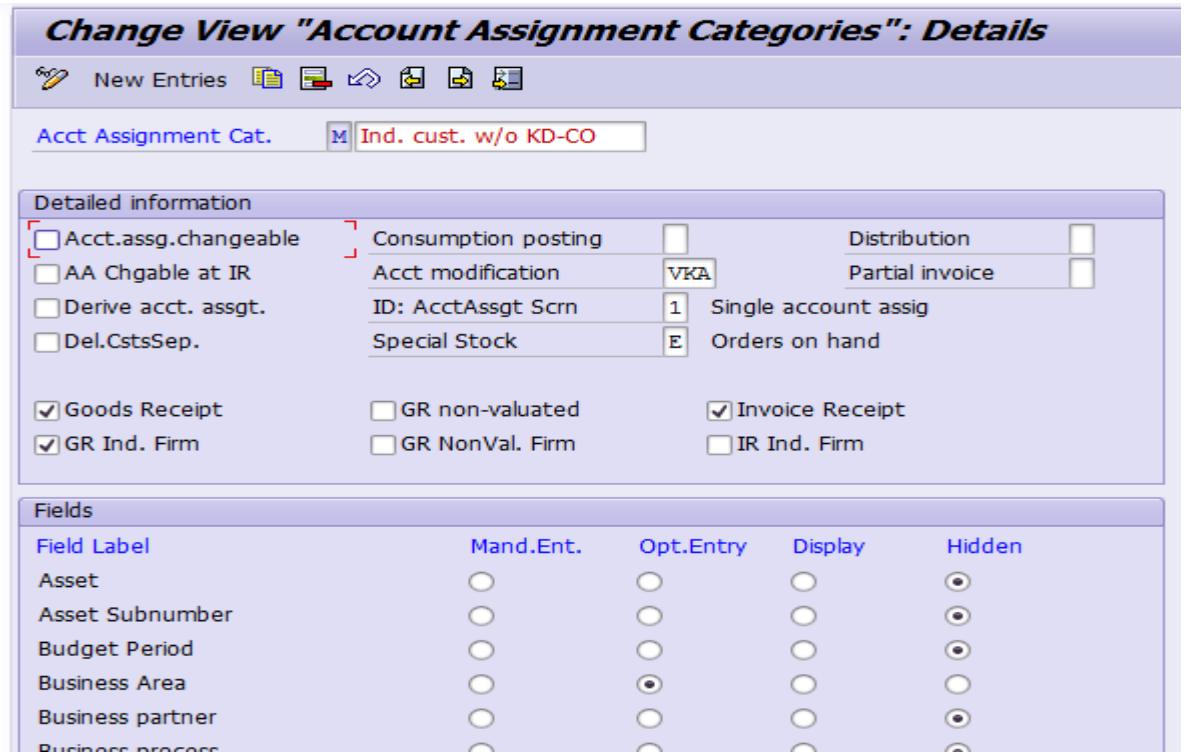
Check Costing Variants for Product Costing-OKY9



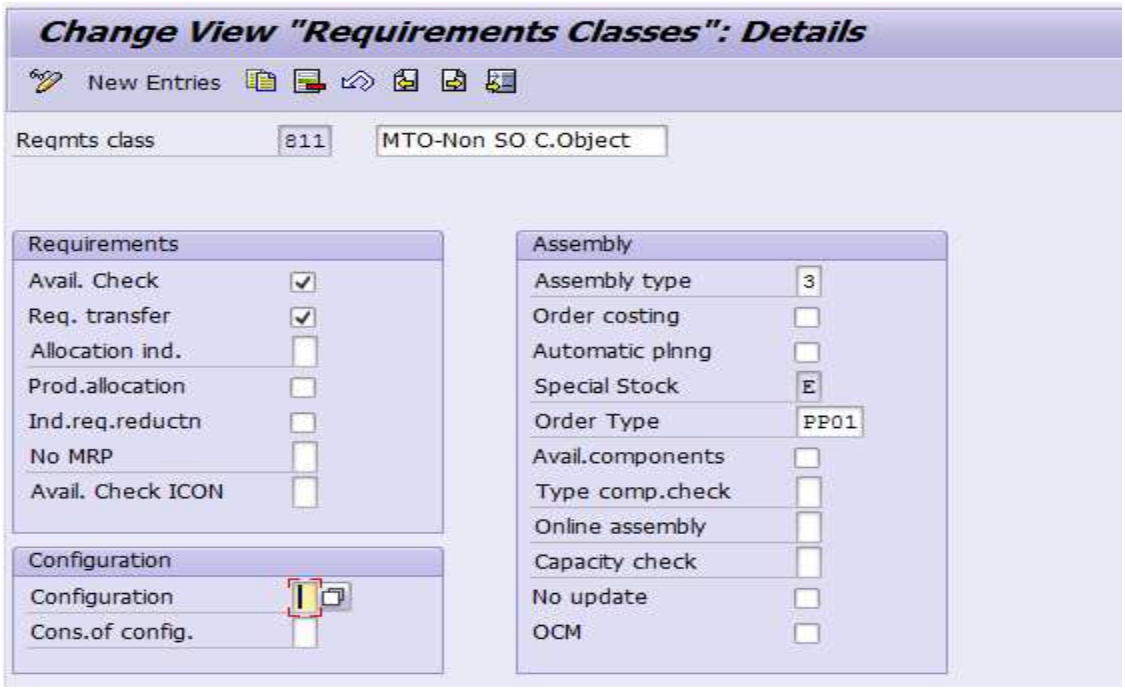


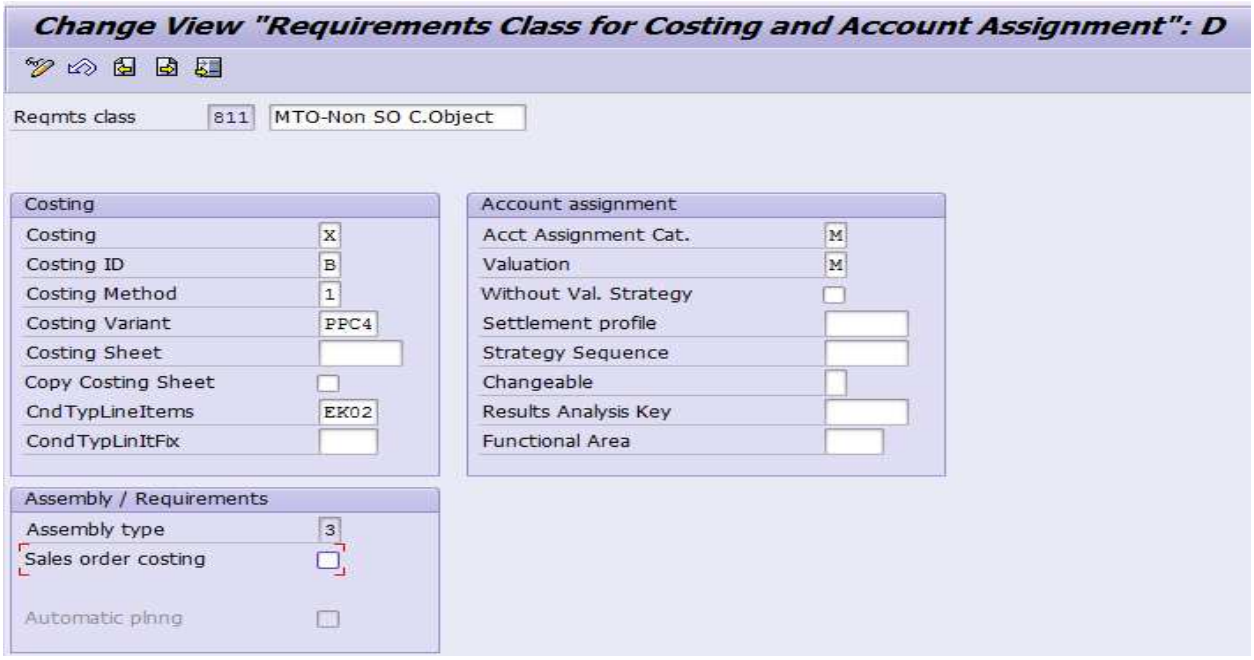
Check Account Assignment Categories-OME9





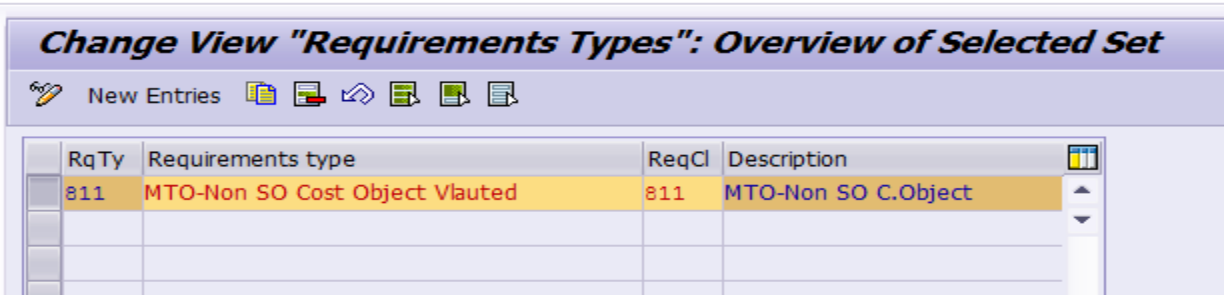
Check Requirements Classes-OVZG



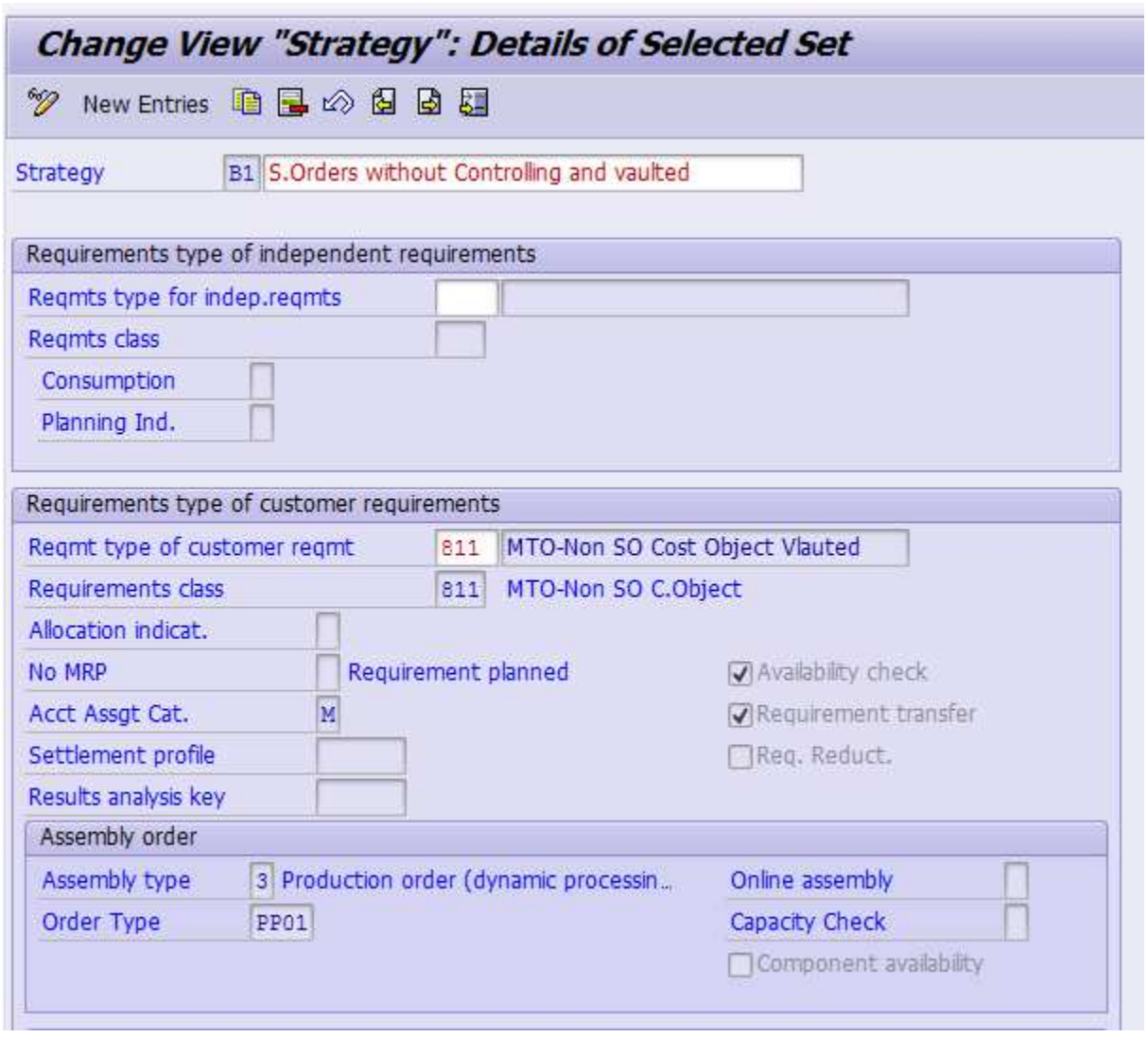


Here Requirement Class 811-Sales Orders without Controlling and vaulted inventory & Assembly type 3 for Production order will create automatically when sales order creation.

Check Requirements Types-OVZH

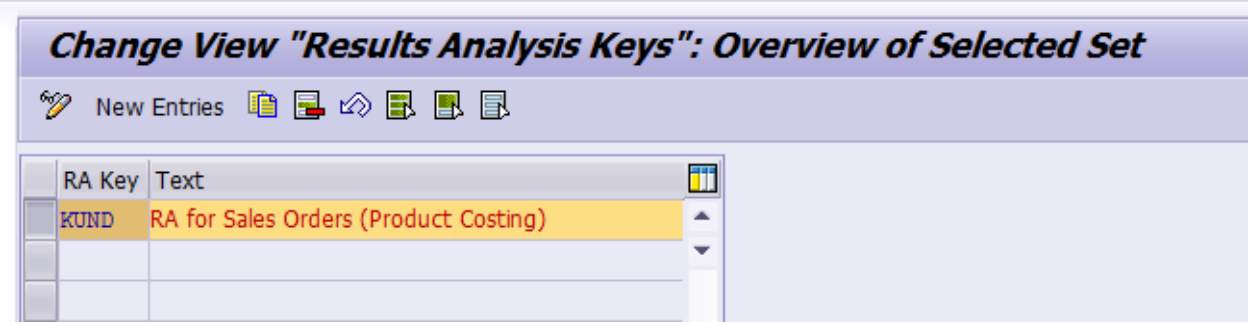


Check Planning Strategies- OPPS

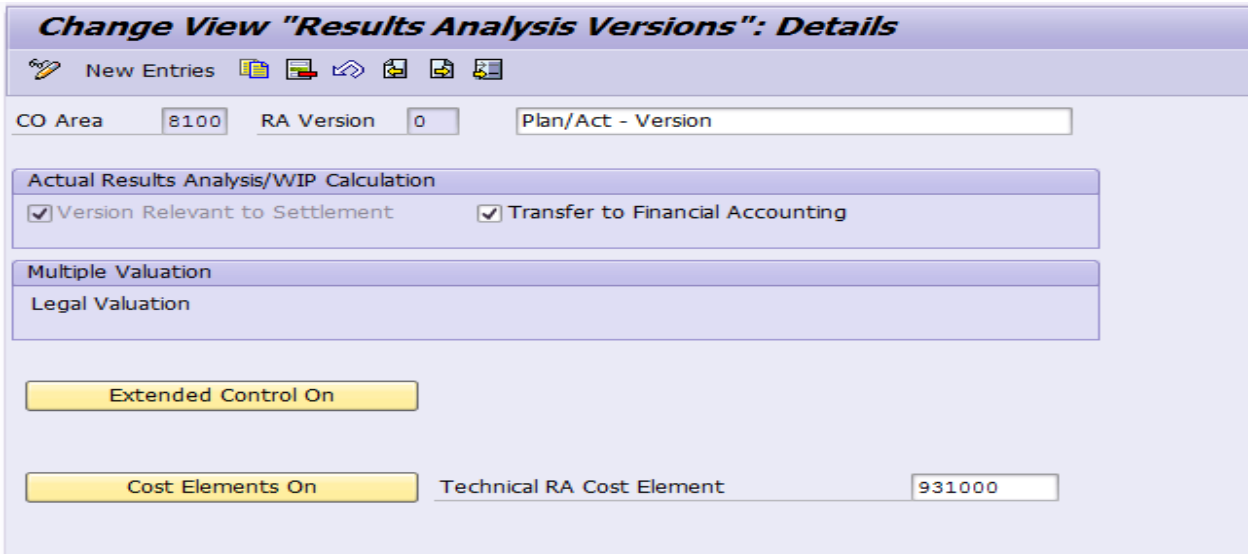


Check Strategy Groups-OPPT

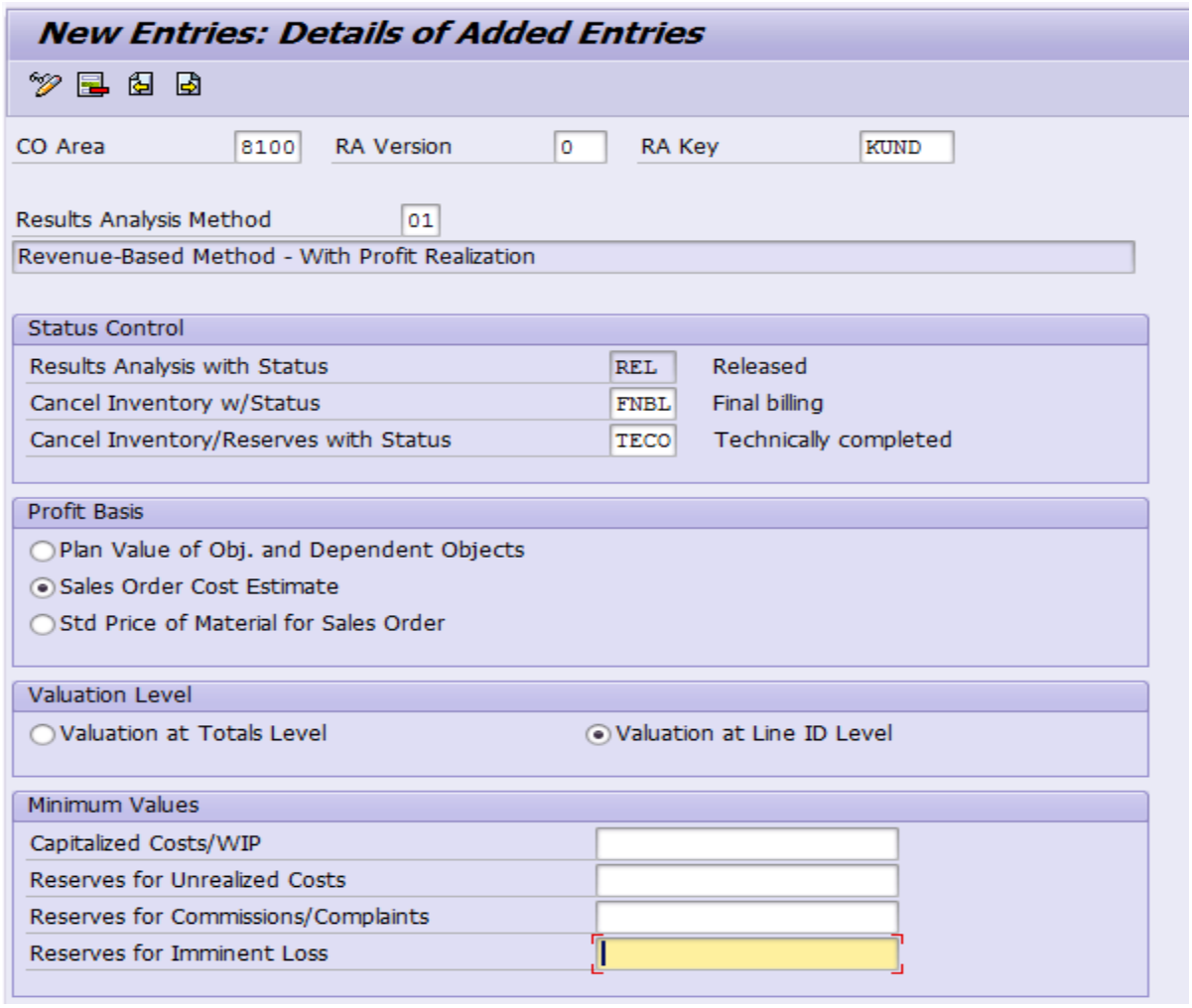
Create Results Analysis Keys-OKG1



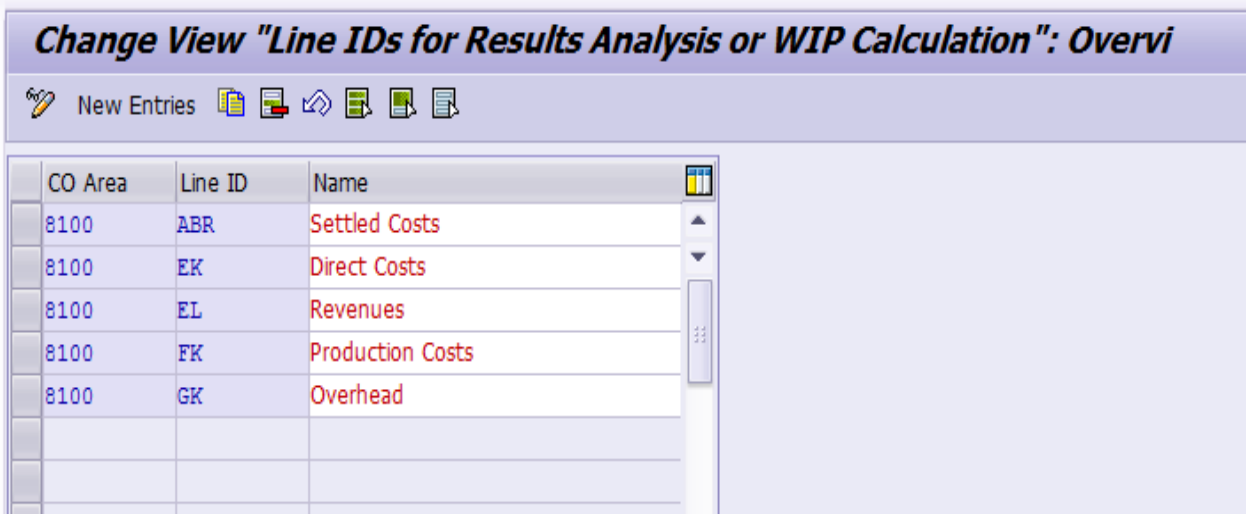
Define Results Analysis Versions-OKG2



Define Valuation Methods for Results Analysis-OKG3



Define Line IDs



Define Assignment for Results Analysis-OKG5

Change View "Assignment of Cost Elements for WIP and Results Analysis"

New Entries

CO ...	RA ...	RA Key	Masked Co...	Ori...	Masked Co...	Mask...	Business Proc.	D	V	Appo...	Acco...	Valid-Fr...	ReqToCap	OptToCap
8100	0		0000300+++	++++			++++++++++++	+	+	++	++	001.1993	EL	
8100	0		00004+++++	++++			++++++++++++	+	+	++	++	001.1993	EK	
8100	0		0000921+++	++++			++++++++++++	+	+	++	++	001.1993	ABR	
8100	0		0000931+++	++++	++++++++++	++++++	++++++++++++	+	+	++	++	001.1993	FK	
8100	0		0000941+++	++++	++++++++++	++++++	++++++++++++	+	+	++	++	001.1993	GK	
8100	0		0000943+++	++++	++++++++++	++++++	++++++++++++	+	+	++	++	001.1993	FK	

Define Update for Results Analysis-OKG4

Change View "Update of WIP Calculation and Results Analysis": Overview

New Entries

COAr	Vsn	RA Key	LID		Creation	Usage	ApptNo	UM
8100	0	KUND	ABR	N				
8100	0	KUND	EK	K	WIP	931001		
					Reserves	931002		
					COS/Revenue	931007		
8100	0	KUND	EL	E				
					COS/Revenue	931010		
8100	0	KUND	FK	K	WIP	931003		
					Reserves	931004		
					COS/Revenue	931008		
8100	0	KUND	GK	K	WIP	931005		
					Reserves	931006		
					COS/Revenue	931009		

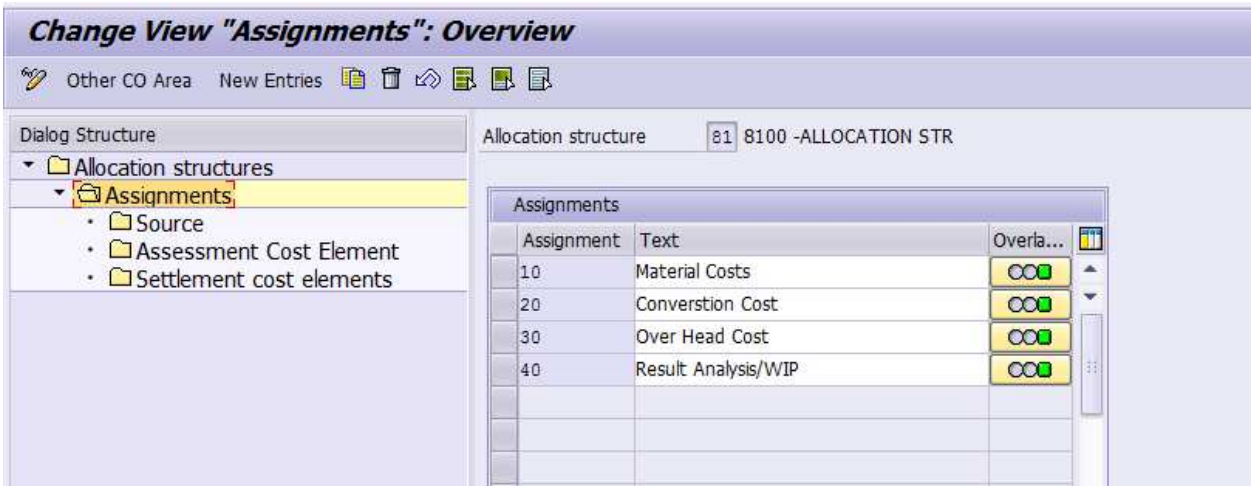
Define Posting Rules for Settlement to Financial Accounting-OKG8

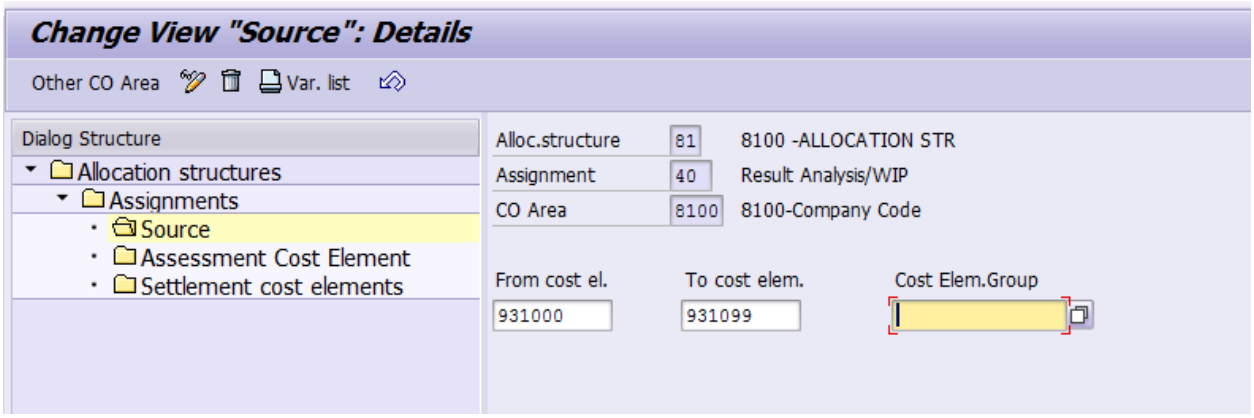
Change View "Posting Rules in WIP Calculation and Results Analysis": O

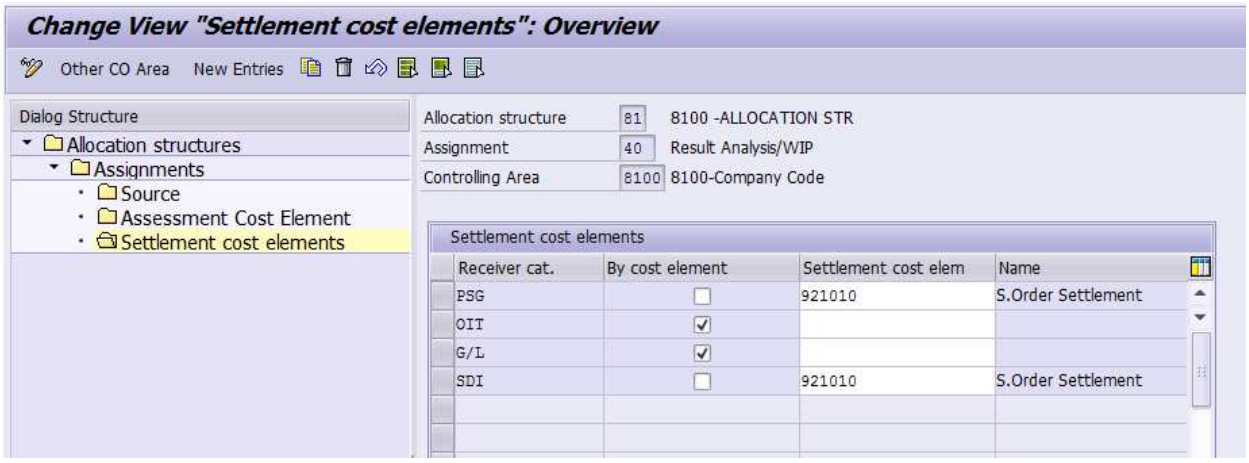
New Entries

CO A...	Com...	RA Ve...	RA categ...	Bal./Cr...	Cost Elem...	Recor...	P&L Acct	BalSheetAcct	Ac...
8100	8100	0	RUCR			0	300521	200501	
8100	8100	0	RUCO			0	300521	200501	
8100	8100	0	COSR			0	300521	200501	

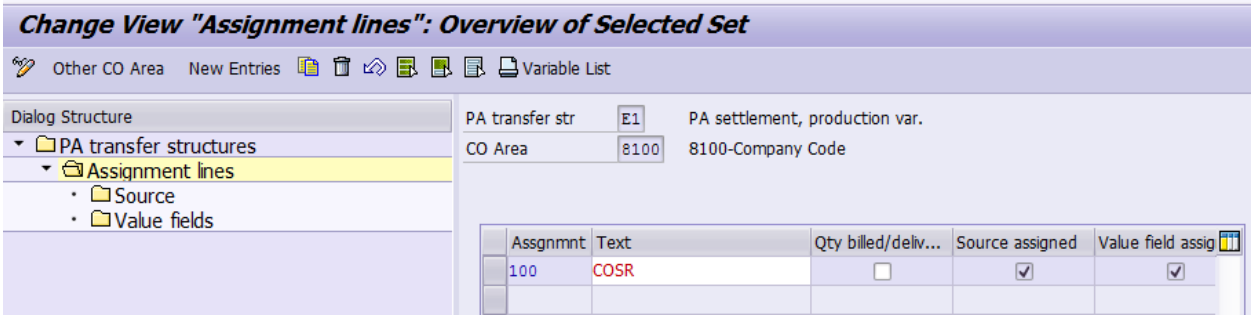
Create Allocation Structure-OKO6

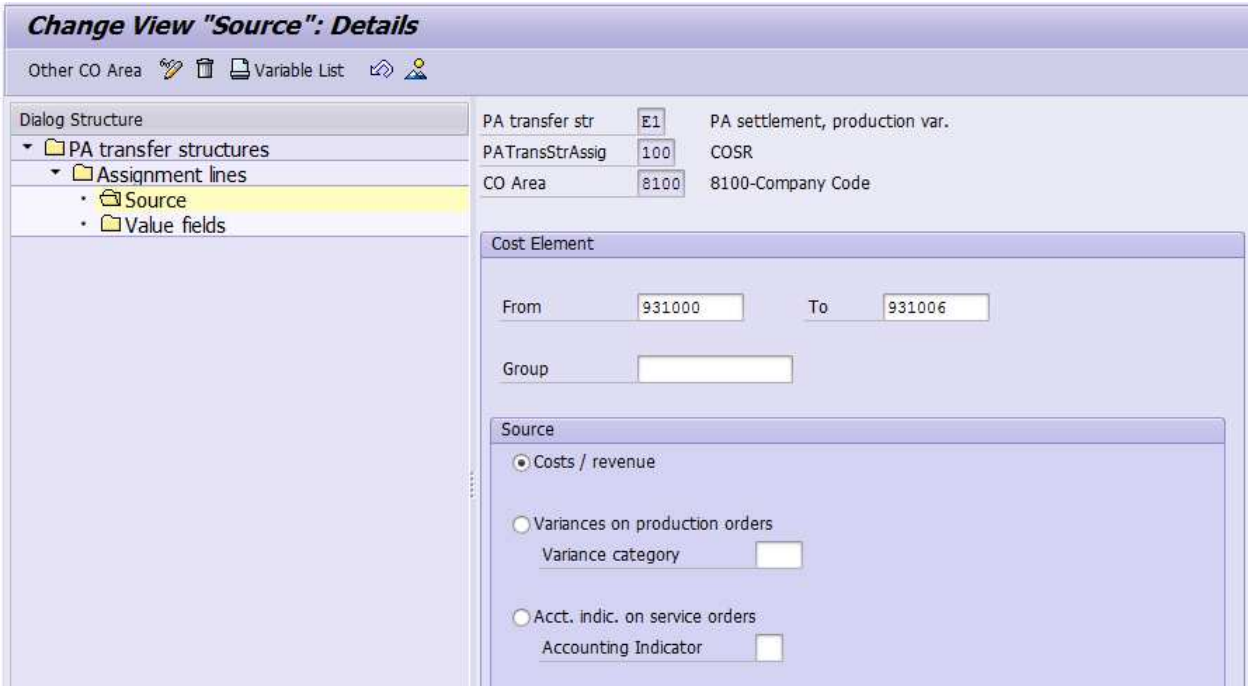


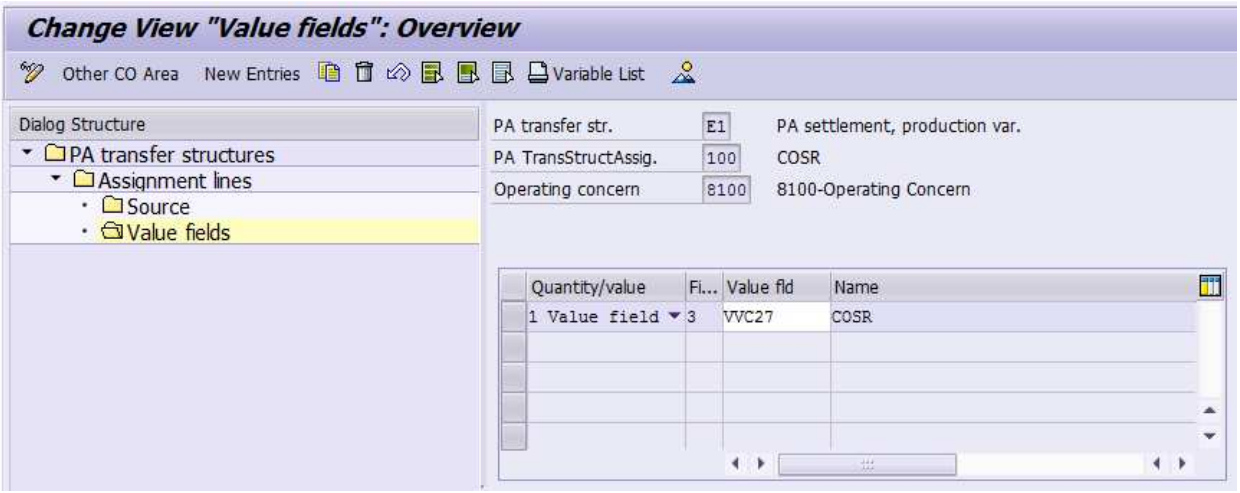




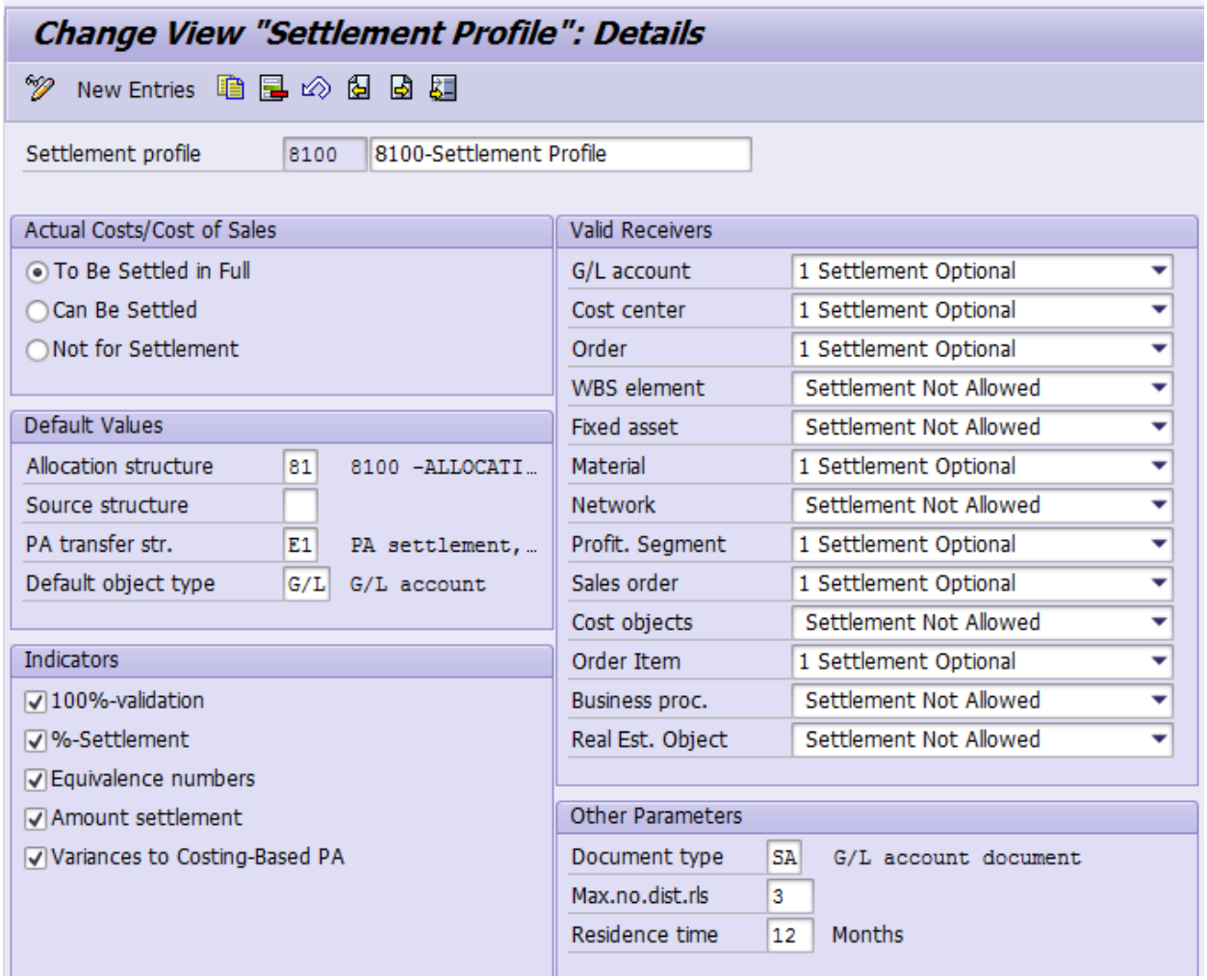
Create PA Transfer Structure-KEI1





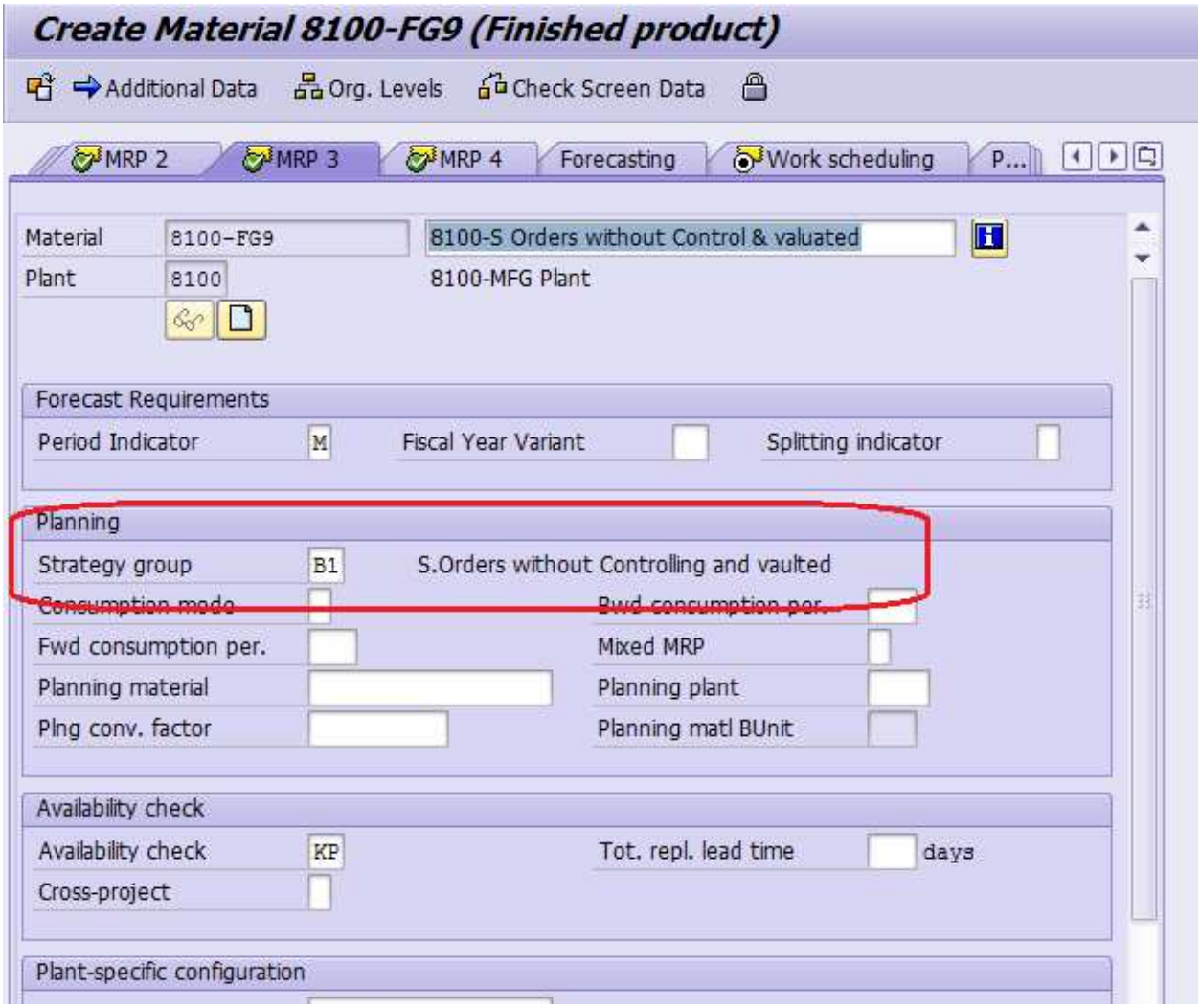


Create Settlement Profile-OKO7



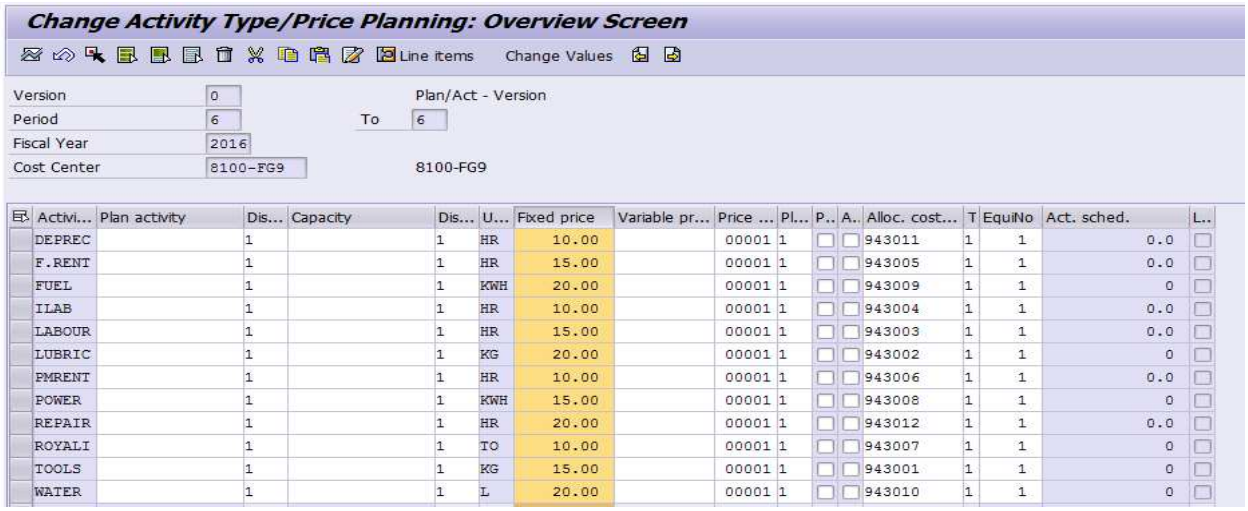
Testing

MM01



CS01-

KP26



Change Activity Type/Price Planning: Overview Screen

Line items | Change Values

Version	0	Plan/Act - Version	
Period	6	To 6	
Fiscal Year	2016		
Cost Center	8100-FG9	8100-FG9	

Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...	T	EquiNo	Act. sched.	L..
DEPREC		1		1	HR	10.00		00001	1			943011	1	1	0.0	
F.RENT		1		1	HR	15.00		00001	1			943005	1	1	0.0	
FUEL		1		1	KWH	20.00		00001	1			943009	1	1	0	
ILAB		1		1	HR	10.00		00001	1			943004	1	1	0.0	
LABOUR		1		1	HR	15.00		00001	1			943003	1	1	0.0	
LUBRIC		1		1	KG	20.00		00001	1			943002	1	1	0	
PMRENT		1		1	HR	10.00		00001	1			943006	1	1	0.0	
POWER		1		1	KWH	15.00		00001	1			943008	1	1	0	
REPAIR		1		1	HR	20.00		00001	1			943012	1	1	0.0	
ROYALI		1		1	TO	10.00		00001	1			943007	1	1	0	
TOOLS		1		1	KG	15.00		00001	1			943001	1	1	0	
WATER		1		1	L	20.00		00001	1			943010	1	1	0	

CR01

Create Work Center: Cost Center Assignment

HRMS | Hierarchy | Template

Plant	8100	8100-MFG Plant
Work center	8100-FG9	8100-FG9

Basic Data | Default Values | Capacities | Scheduling | Costing

Validity

Start date	15.06.2016	End Date	31.12.9999

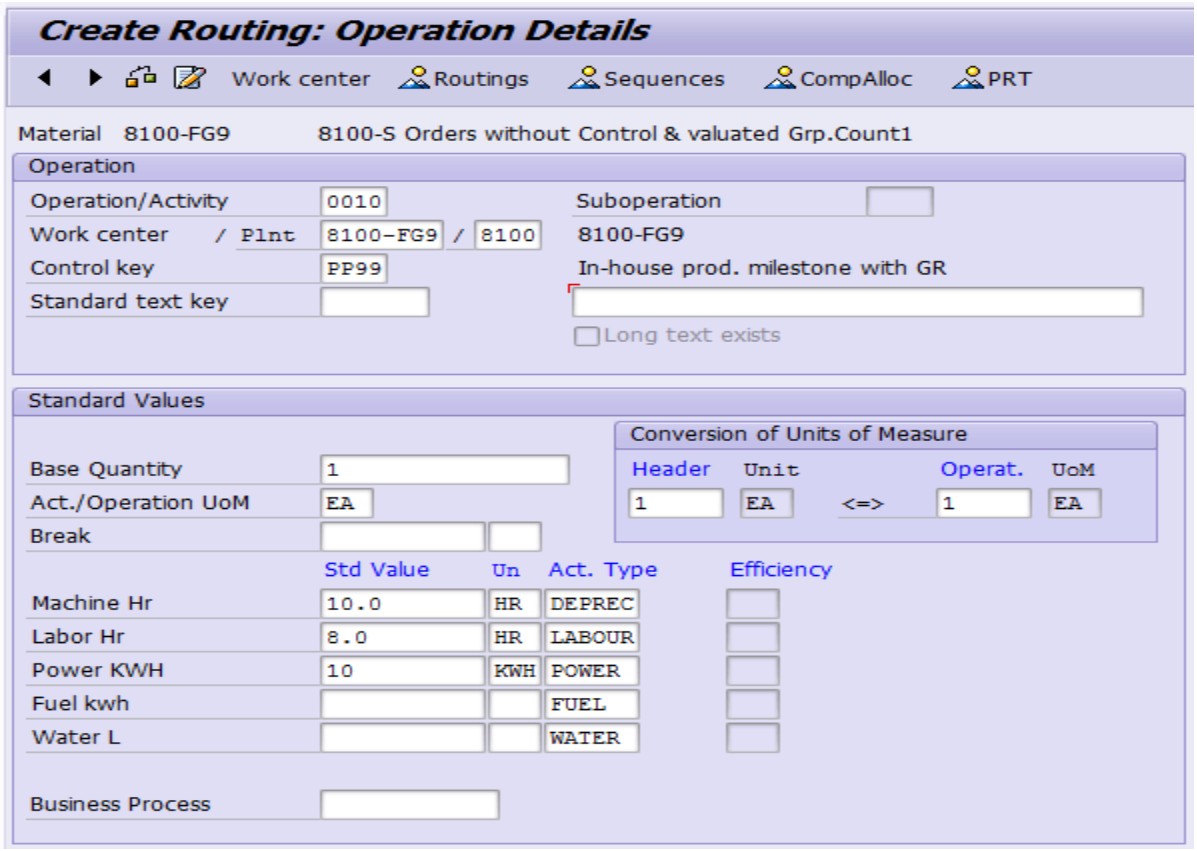
Link to cost center/activity types

Controlling Area	8100	8100-Company Code
Cost Center	8100-FG9	8100-FG9

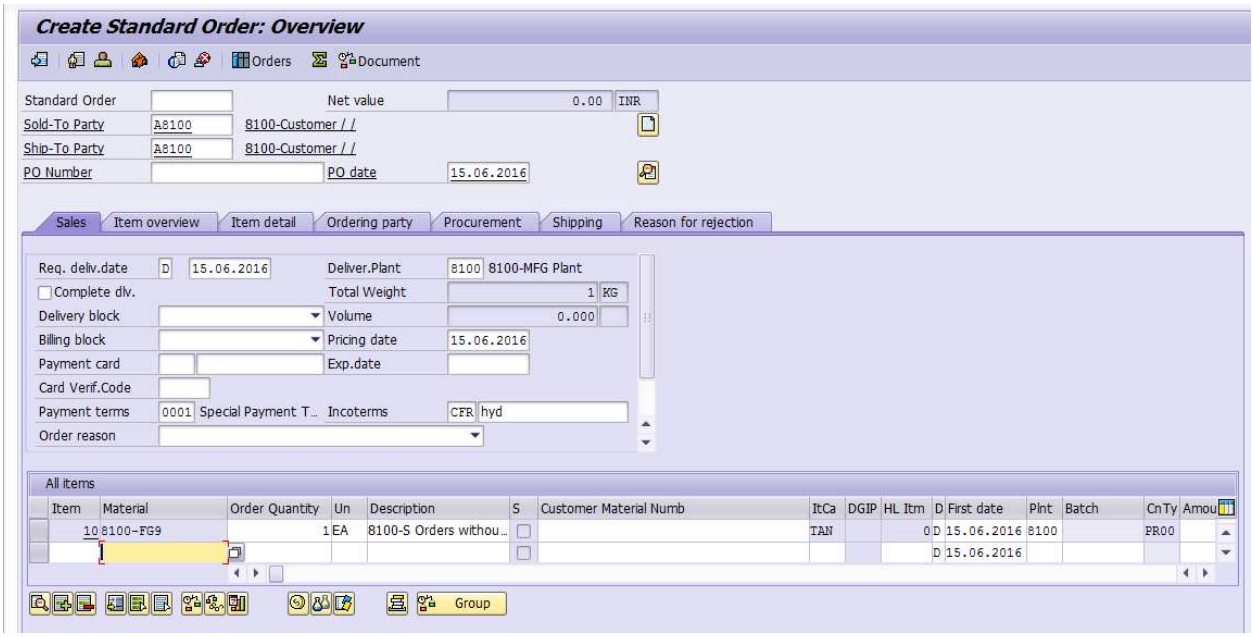
Activities Overview

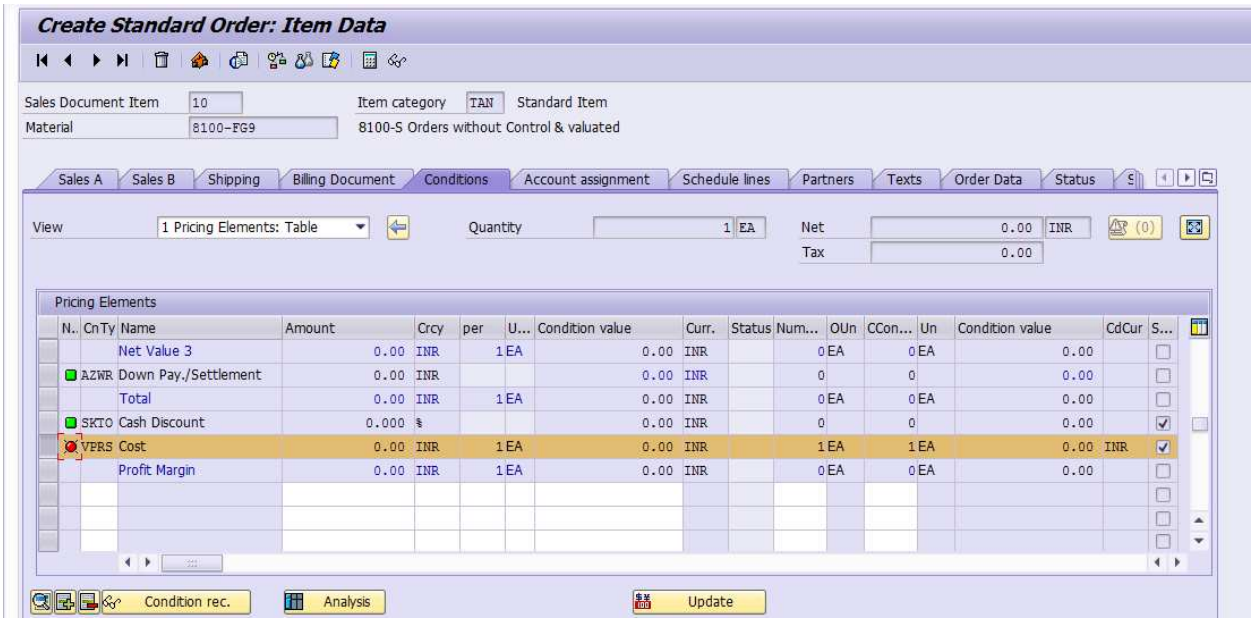
Alt. activity descr.	R...	Form...	Formula description	Form...	Formula description
Machine Hr		8881	Machine HR	8881	Machine HR
Labor Hr		8882	Labor HR	8882	Labor HR
Power KWH		8883	Power KWH	8883	Power KWH
Fuel kwh		8884	Fuel Kwh	8884	Fuel Kwh
Water L		8885	Water L	8885	Water L

CA01



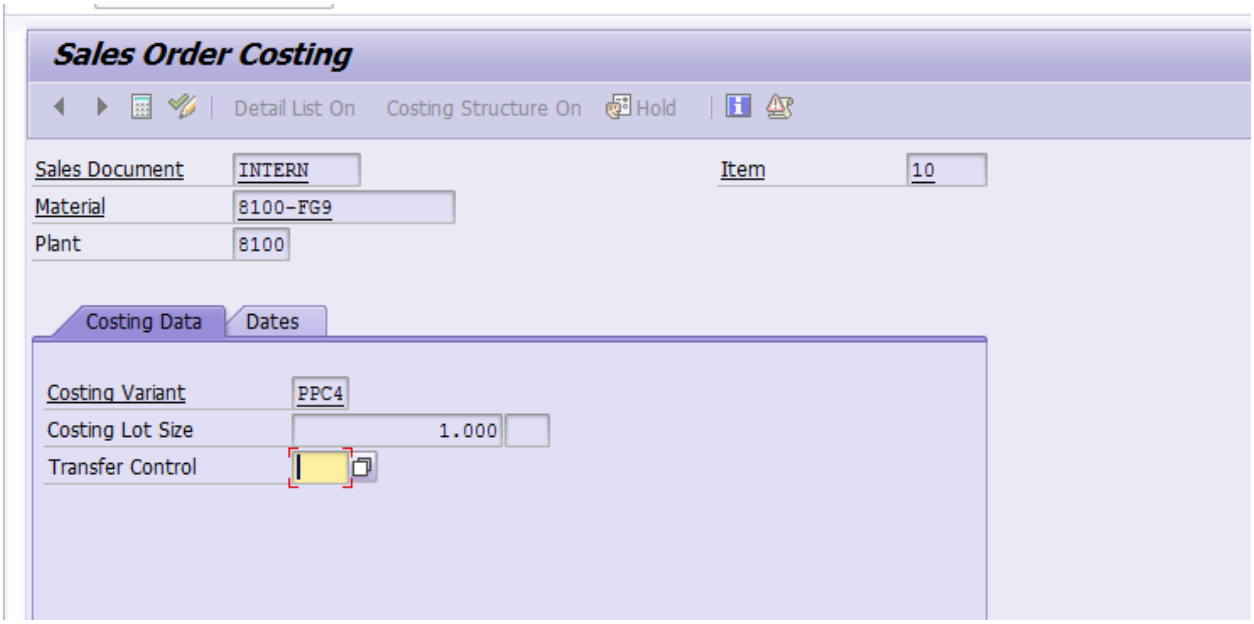
Create Sales Order-VA01

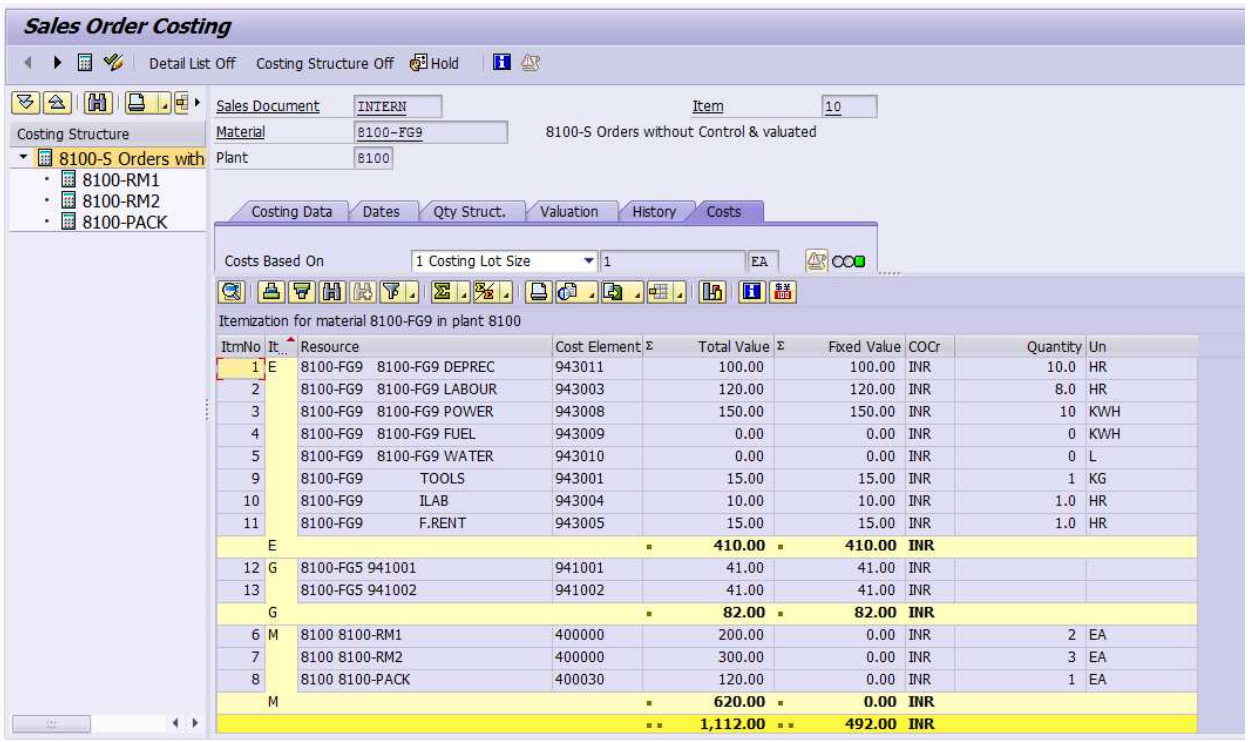




In Sales Order there is no VPRS condition type value.

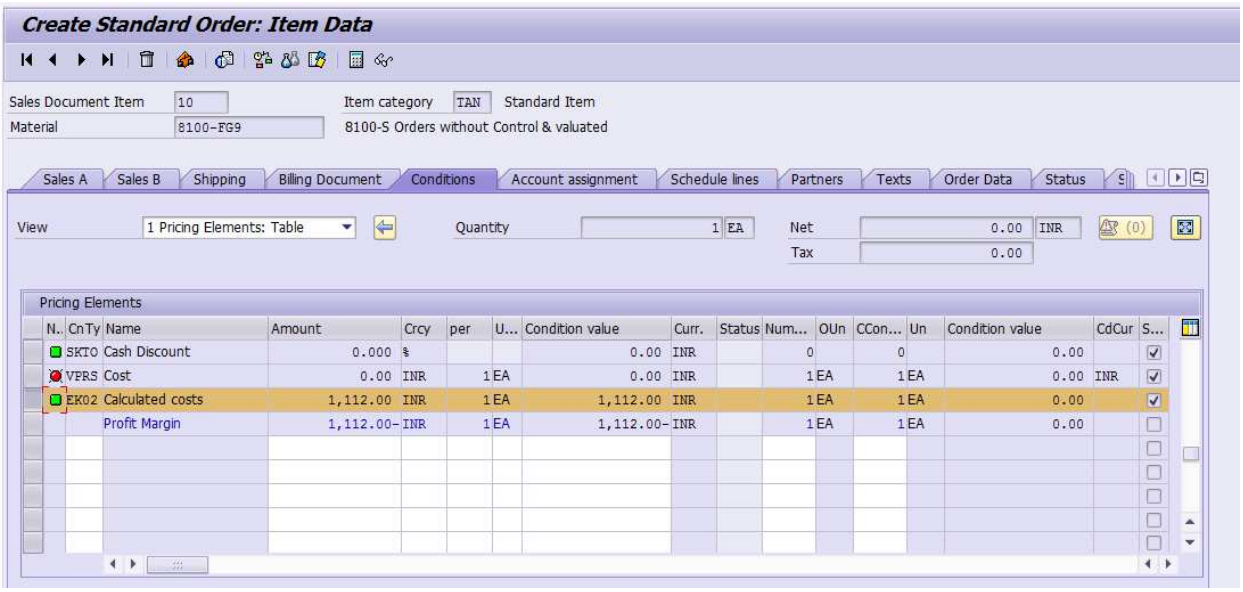
Now do Sales order Costing in menu bar extras and Costing.



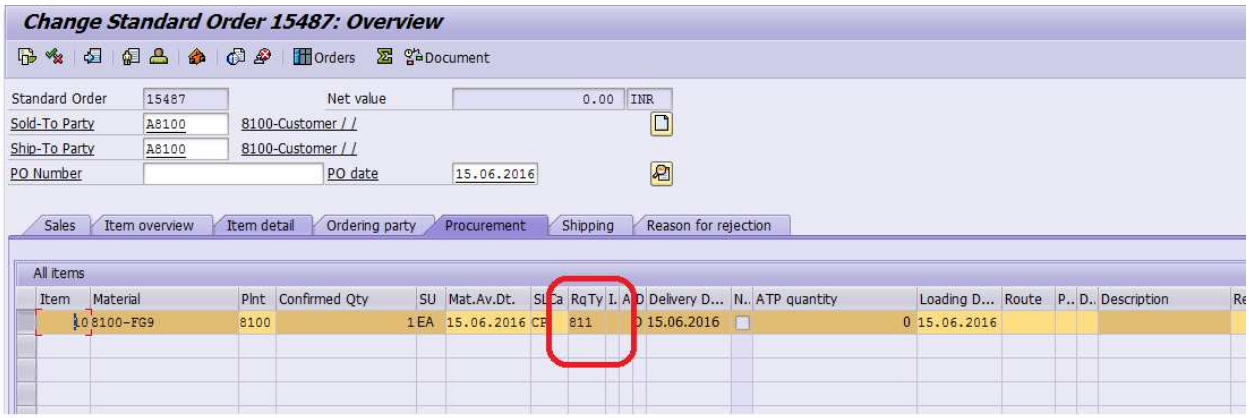


ItmNo	It	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	E	8100-FG9 8100-FG9 DEPREC	943011	100.00	100.00	INR	10.0	HR
2		8100-FG9 8100-FG9 LABOUR	943003	120.00	120.00	INR	8.0	HR
3		8100-FG9 8100-FG9 POWER	943008	150.00	150.00	INR	10	KWH
4		8100-FG9 8100-FG9 FUEL	943009	0.00	0.00	INR	0	KWH
5		8100-FG9 8100-FG9 WATER	943010	0.00	0.00	INR	0	L
9		8100-FG9 TOOLS	943001	15.00	15.00	INR	1	KG
10		8100-FG9 ILAB	943004	10.00	10.00	INR	1.0	HR
11		8100-FG9 F.RENT	943005	15.00	15.00	INR	1.0	HR
	E			**410.00**	**410.00**	**INR**		
12	G	8100-FG5 941001	941001	41.00	41.00	INR		
13		8100-FG5 941002	941002	41.00	41.00	INR		
	G			**82.00**	**82.00**	**INR**		
6	M	8100 8100-RM1	400000	200.00	0.00	INR	2	EA
7		8100 8100-RM2	400000	300.00	0.00	INR	3	EA
8		8100 8100-PACK	400030	120.00	0.00	INR	1	EA
	M			**620.00**	**0.00**	**INR**		
				1,112.00	**492.00**	**INR**		

Once save that sales order cost value will update in sales order EK02 condition type



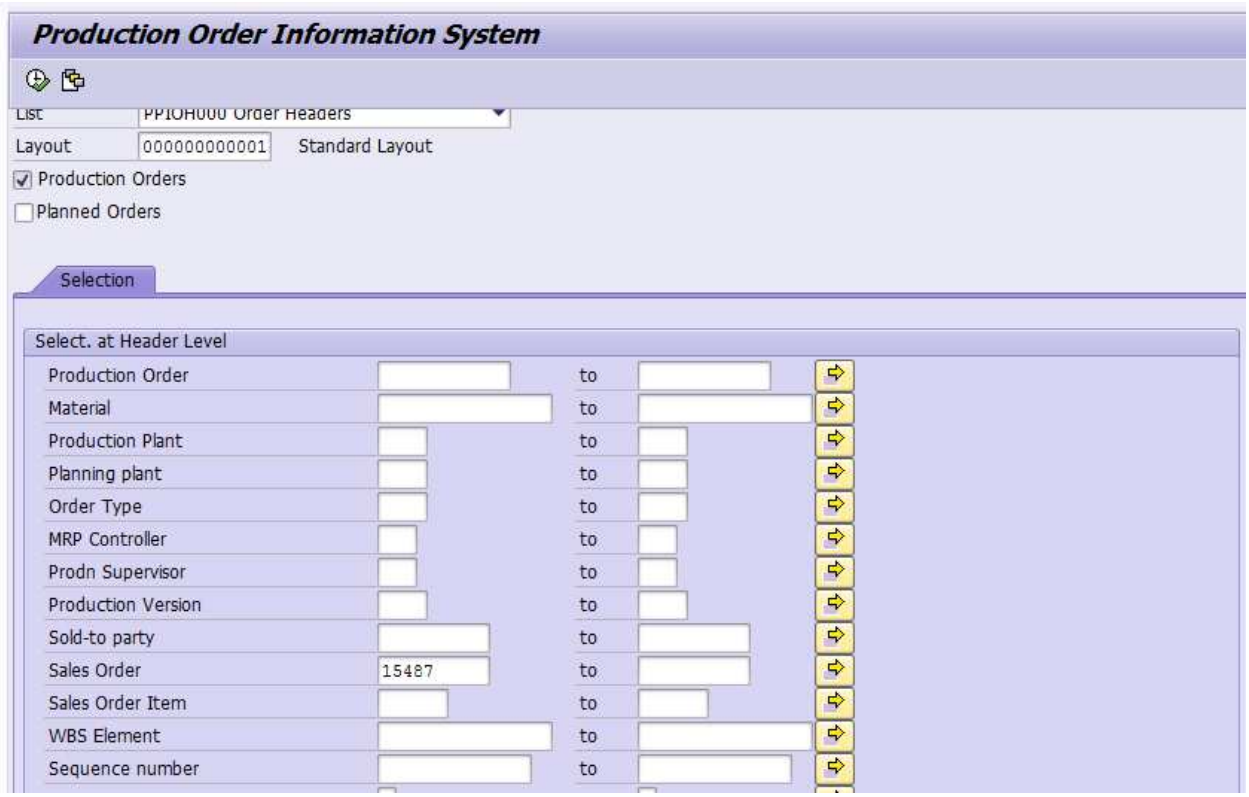
N..	CnTy	Name	Amount	Crcy	per	U...	Condition value	Curr.	Status	Num...	OUn	CCon...	Un	Condition value	CdCur	S...
	SKTO	Cash Discount	0.000	%			0.00	INR		0		0		0.00		☑
	VPRS	Cost	0.00	INR	1	EA	0.00	INR		1	EA	1	EA	0.00	INR	☑
	EK02	Calculated costs	1,112.00	INR	1	EA	1,112.00	INR		1	EA	1	EA	0.00		☑
		Profit Margin	1,112.00-	INR	1	EA	1,112.00-	INR		1	EA	1	EA	0.00		☐



In Procurement tab, we can see Requirement type 811 which drives as "Sales order without controlling and vaulted scenario"

Based on the assembly type whenever sales order create automatically production will create.

COOIS



Order Info System - Order Headers

Order	Material	Icon	Order Type	MRP ctrlr	Pr.Superv.	Plant	Target qty	Unit	Bsc start	Basic fin. date	Type	System Status	Version	Material description
60004056	8100-FG9		PP01	810	810	8100	1	EA	15.06.2016	15.06.2016		CRTD PRC MANC SETC		8100-S Orders without Control & valuated

Click on Production Order,

We can see sales order in production order

Production order Change: Header

Material | Capacity

Order	60004056	Type	PP01
Material	8100-FG9	8100-S Orders without Control & valuated	Plant 8100
Status	REL PRC MANC SETC		
User Status	RLAL		

General | Assignment | Goods Receipt | Control | Dates/Qties | Master Data | Long Text | Administration | SAP Event Mgmt

Quantities

Total Qty	1	EA	Scrap Portion	0.00	%
Delivered	0		Short/Exc. Rcpt	0	

Dates/Times

	Basic Dates		Scheduled		Confirmed	
End	15.06.2016	00:00	15.06.2016	00:00		
Start	15.06.2016	00:00	15.06.2016	00:00		00:00
Release			15.06.2016		15.06.2016	

Sales Order

Sales Order	15487	10	0	Req.DDate	15.06.2016	1st DDate	15.06.2016
Ordering Pty	A8100	8100-Customer					

Scheduling | Floats

Goto Cost trend

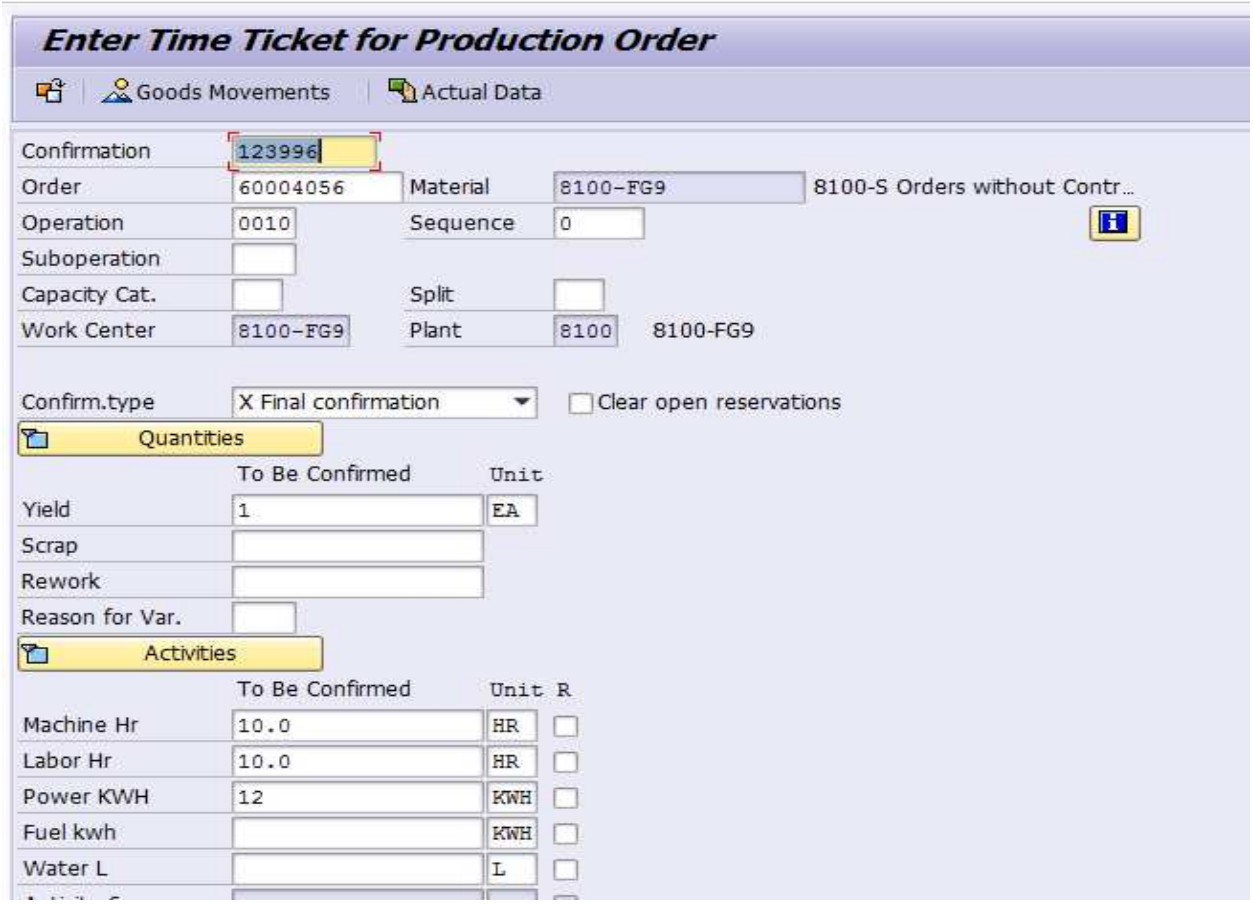
Order 60004056 8100-FG9
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG9 8100-S Orders without Control & valuated

Planned Quantity 1 EA Each

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Σ Total plan costs	Σ Total actual costs	Σ Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	200.00	0.00	200.00-	100.00-	INR
	8100/8100-RM2	8100-RM2	300.00	0.00	300.00-	100.00-	INR
	8100/8100-PACK	8100-PACK	120.00	0.00	120.00-	100.00-	INR
Goods Issues			**620.00**	**0.00**	**620.00-**		**INR**
Confirmations	8100-FG9/TOOLS	8100-FG9 / Tools	15.00	0.00	15.00-	100.00-	INR
	8100-FG9/LABOUR	8100-FG9 / Direct Labour	120.00	0.00	120.00-	100.00-	INR
	8100-FG9/ILAB	8100-FG9 / Indirect Labour	10.00	0.00	10.00-	100.00-	INR
	8100-FG9/F.RENT	8100-FG9 / Factory Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG9/POWER	8100-FG9 / Power	150.00	0.00	150.00-	100.00-	INR
	8100-FG9/DEPREC	8100-FG9 / Depreciation	100.00	0.00	100.00-	100.00-	INR
Confirmations			**410.00**	**0.00**	**410.00-**		**INR**
Overhead	8100-FG5	8100-FG5	41.00	0.00	41.00-	100.00-	INR
	8100-FG5	8100-FG5	41.00	0.00	41.00-	100.00-	INR
Overhead			**82.00**	**0.00**	**82.00-**		**INR**
Goods Receipt	8100/8100-FG9	8100-S Orders without Control & valuated	1,112.00-	0.00	1,112.00	100.00-	INR
Goods Receipt			**1,112.00-**	**0.00**	**1,112.00**		**INR**
			0.00	**0.00**	**0.00**		**INR**

CO11N-Production Order Confirmation



Click on Goods Movement button

And then SAVE

CO03

Order 60004056 8100-FG9
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG9 8100-S Orders without Control & valuated

Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

Cumulative Data

Transaction	Origin	Origin (Text)	Σ Total plan costs	Σ Total actual costs	Σ Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	200.00	300.00	100.00	50.00	INR
	8100/8100-RM2	8100-RM2	300.00	200.00	100.00-	33.33-	INR
	8100/8100-PACK	8100-PACK	120.00	120.00	0.00		INR
Goods Issues			**620.00**	**620.00**	**0.00**		**INR**
Confirmations	8100-FG9/TOOLS	8100-FG9 / Tools	15.00	0.00	15.00-	100.00-	INR
	8100-FG9/LABOUR	8100-FG9 / Direct Labour	120.00	150.00	30.00	25.00	INR
	8100-FG9/ILAB	8100-FG9 / Indirect Labour	10.00	0.00	10.00-	100.00-	INR
	8100-FG9/F.RENT	8100-FG9 / Factory Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG9/POWER	8100-FG9 / Power	150.00	180.00	30.00	20.00	INR
	8100-FG9/DEPREC	8100-FG9 / Depreciation	100.00	100.00	0.00		INR
Confirmations			**410.00**	**430.00**	**20.00**		**INR**
Overhead	8100-FG5	8100-FG5	41.00	0.00	41.00-	100.00-	INR
	8100-FG5	8100-FG5	41.00	0.00	41.00-	100.00-	INR
Overhead			**82.00**	**0.00**	**82.00-**		**INR**
Goods Receipt	8100/8100-FG9	8100-S Orders without Control ...	1,112.00-	1,112.00-	0.00		INR
Goods Receipt			**1,112.00-**	**1,112.00-**	**0.00**		**INR**
			0.00	**62.00-**	**62.00-**		**INR**

Now Actual Cost is appearing

We can see stock overview-MMBE

Stock Overview: Basic List

Selection

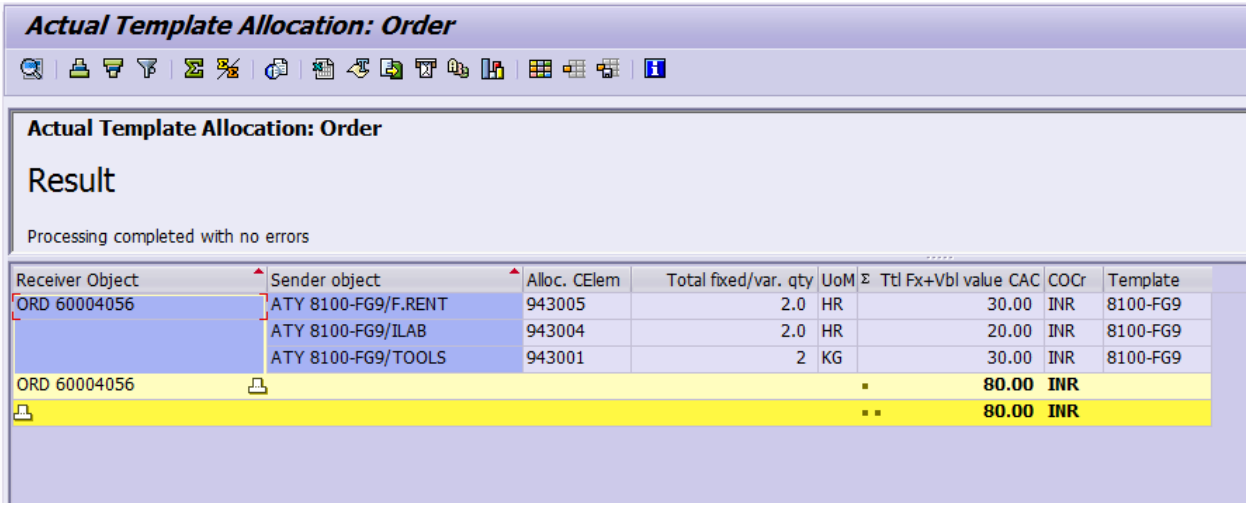
Material	8100-FG9	8100-S Orders without Control & valuated	
Material Type	FERT	Finished product	
Unit of Measure	EA	Base Unit of Measure	EA

Stock Overview

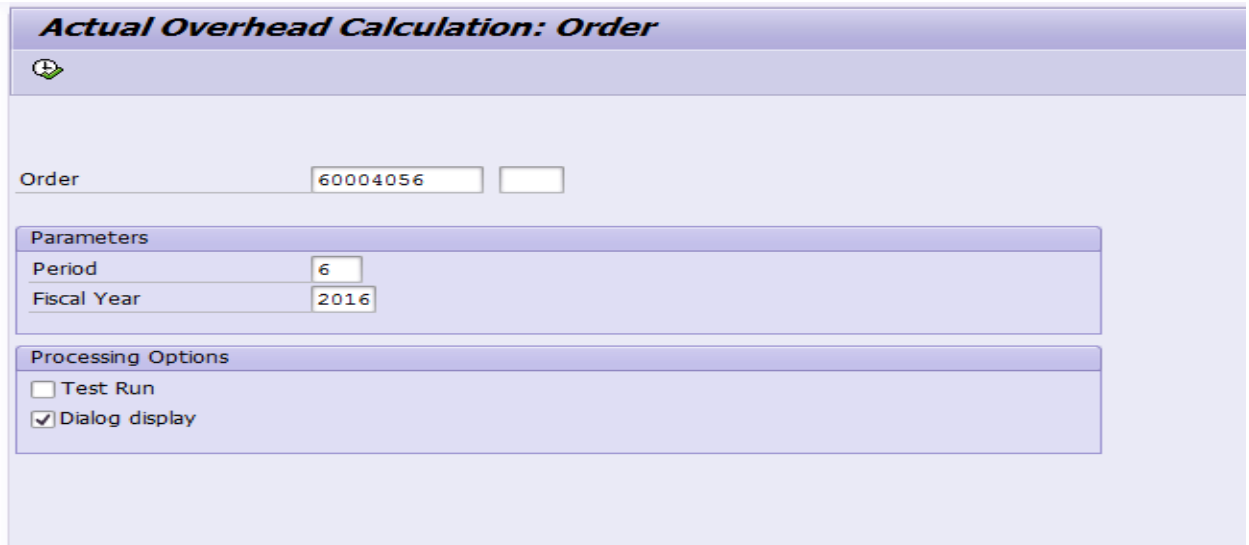
Detailed Display

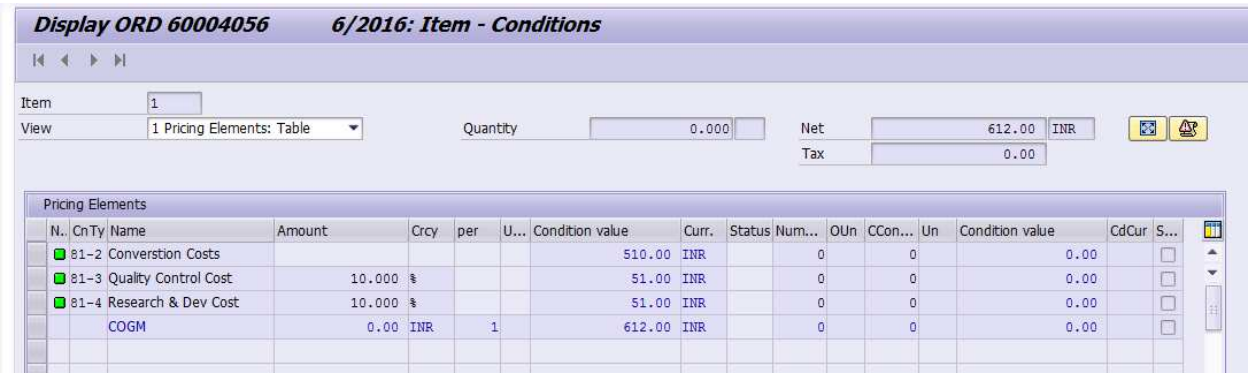
Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation	On-Order Stock	Consgt ...
Full						
8100 8100-Company Code						
8100 8100-MFG Plant						
8100 8100-S.Location						
Sales Order Stock	1.000					

Template Allocation- CPTA - Individual Processing

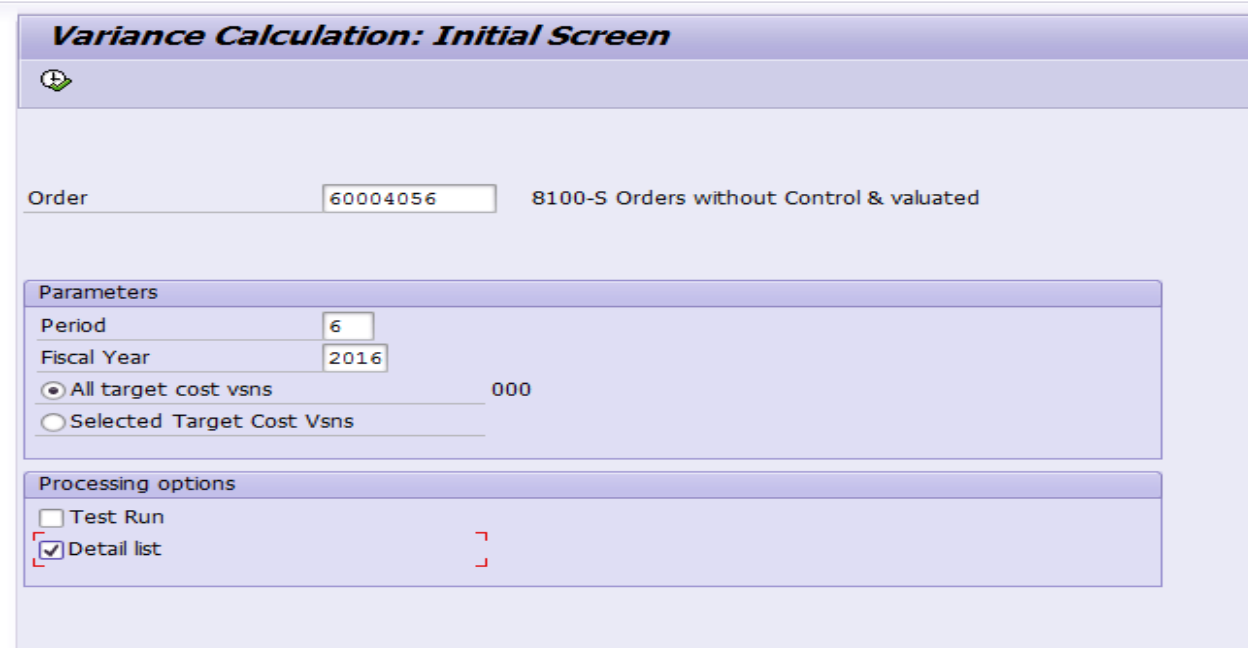


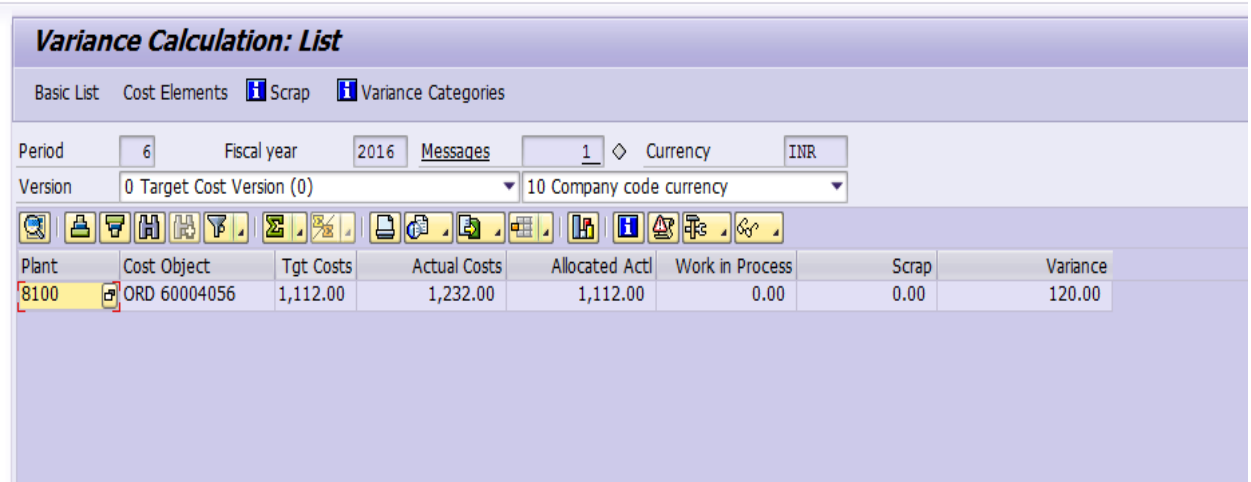
Overhead- KGI2 - Individual Processing



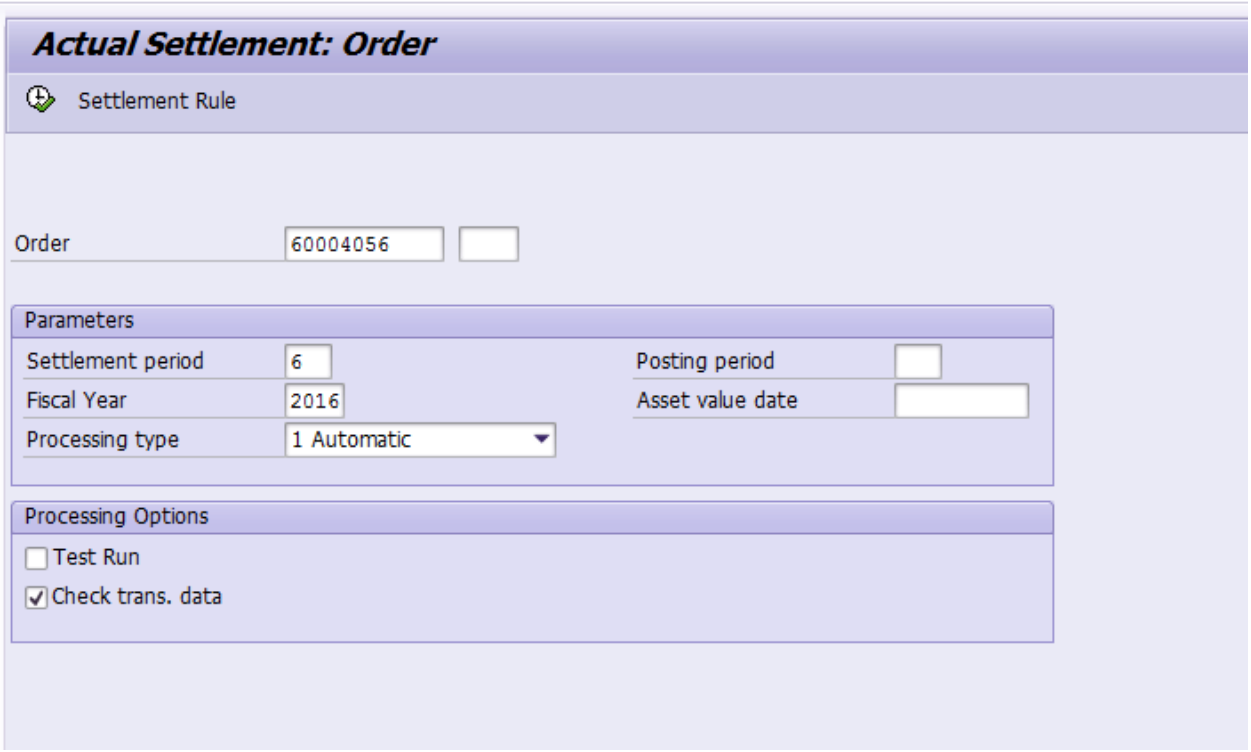


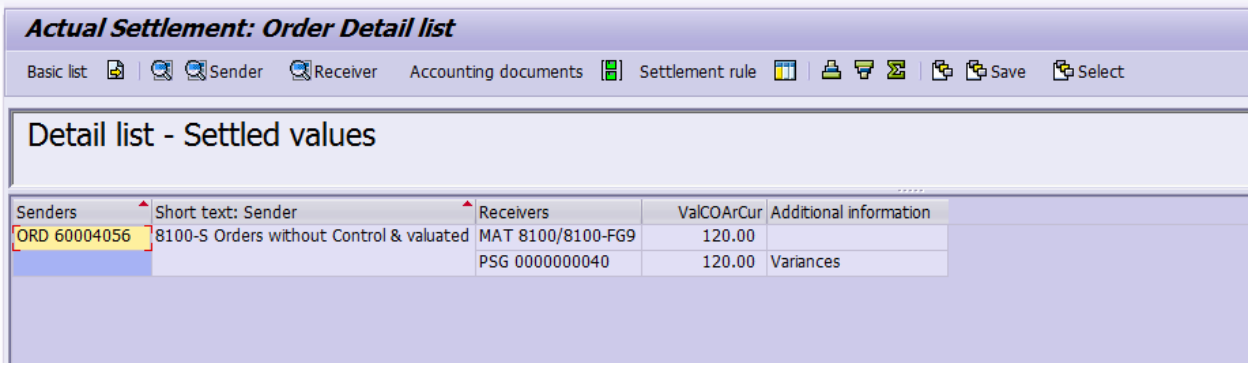
Variances- KKS2 - Individual Processing





Settlement- KO88 - Individual Processing



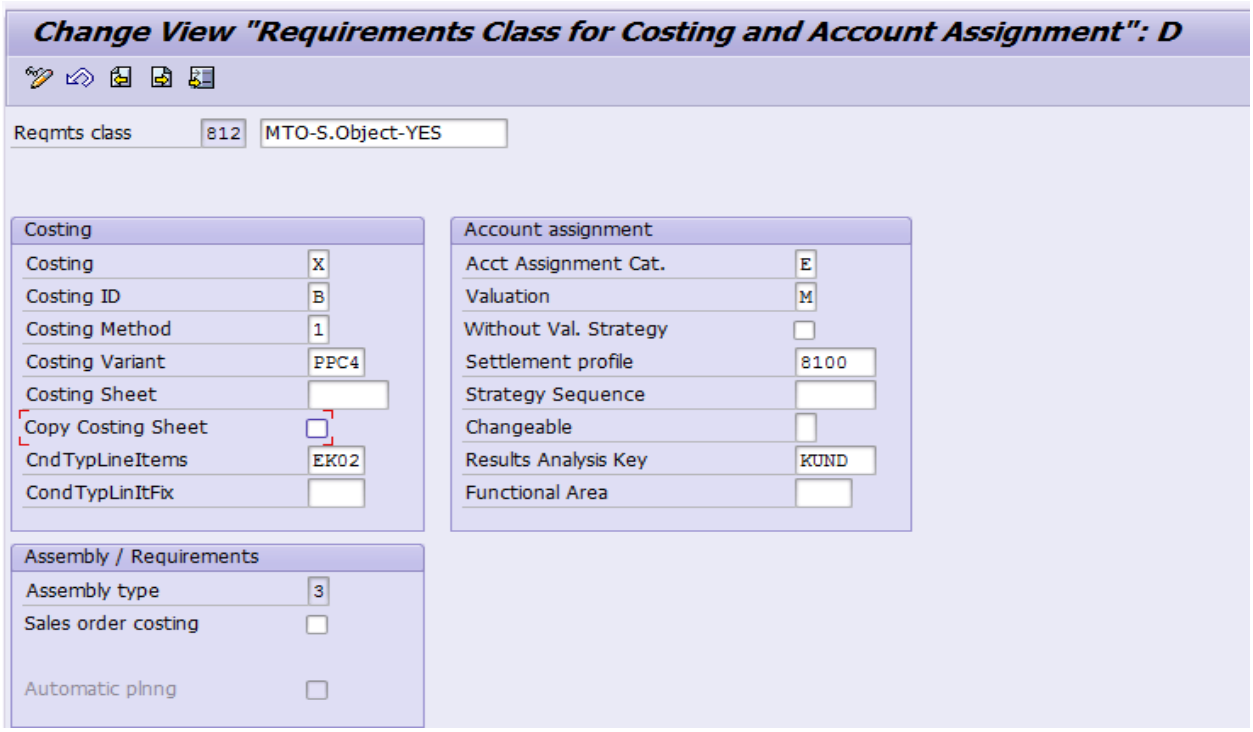


Job Costing

Product Cost by Sales order

2). Sales orders with Controlling and Valuated inventory

Check Requirements Classes-OVZG

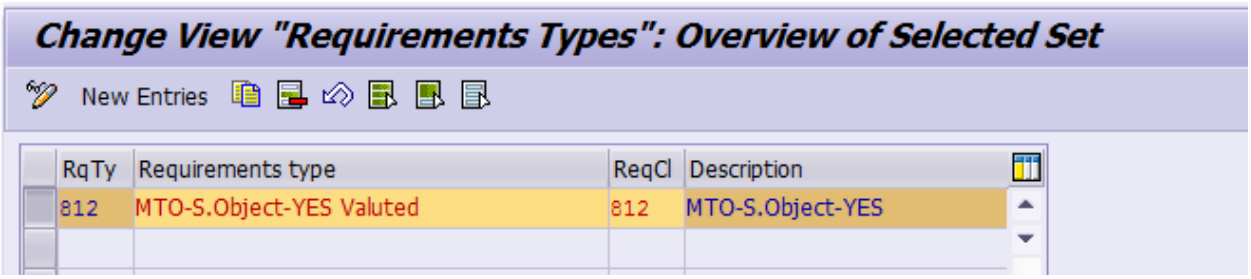


Here Requirement Class

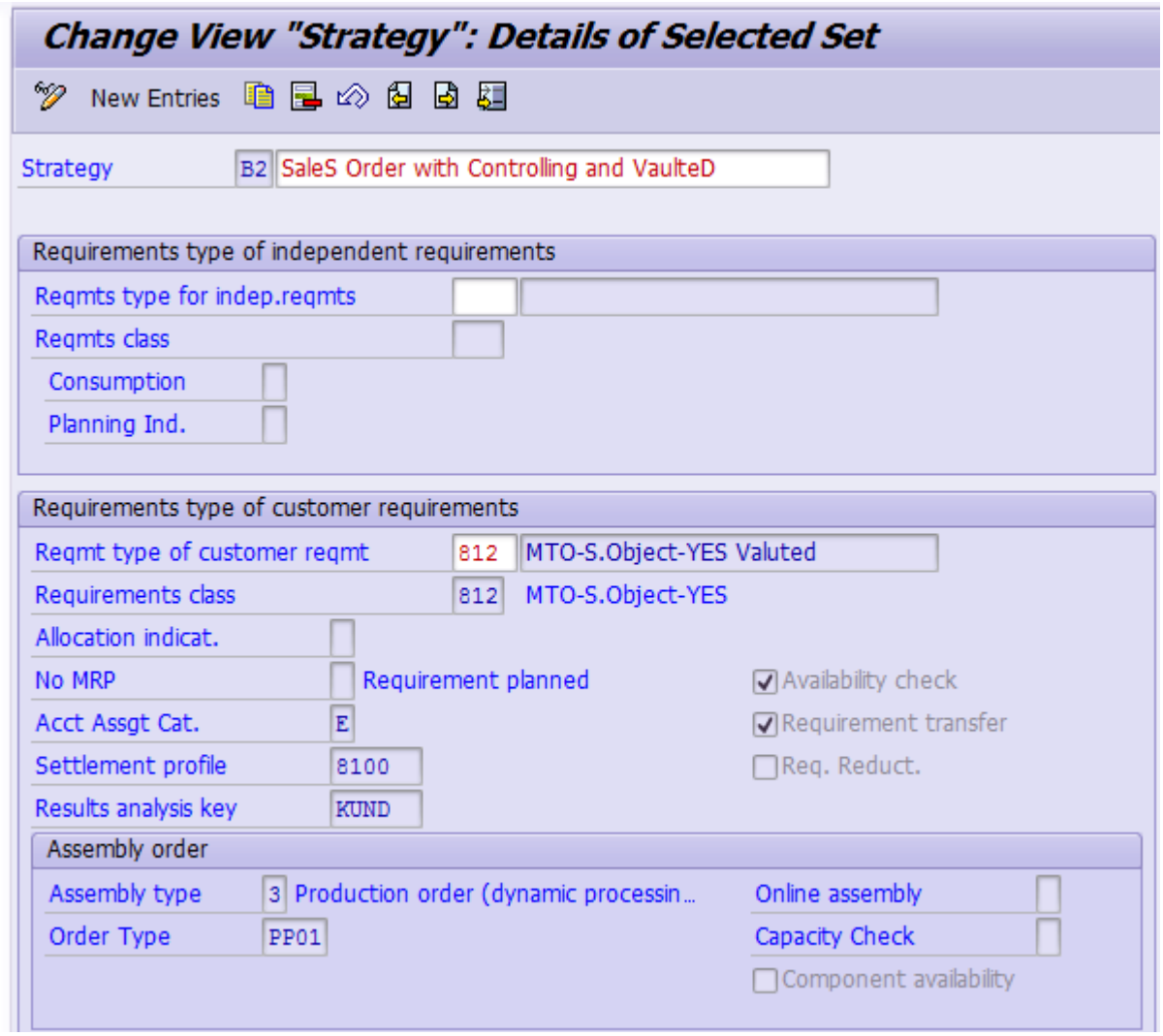
812- Sales Orders with Controlling and Vaulted inventory

Assembly type 3 for Production order will create automatically when sales order creation.

Check Requirements Types-OVZH

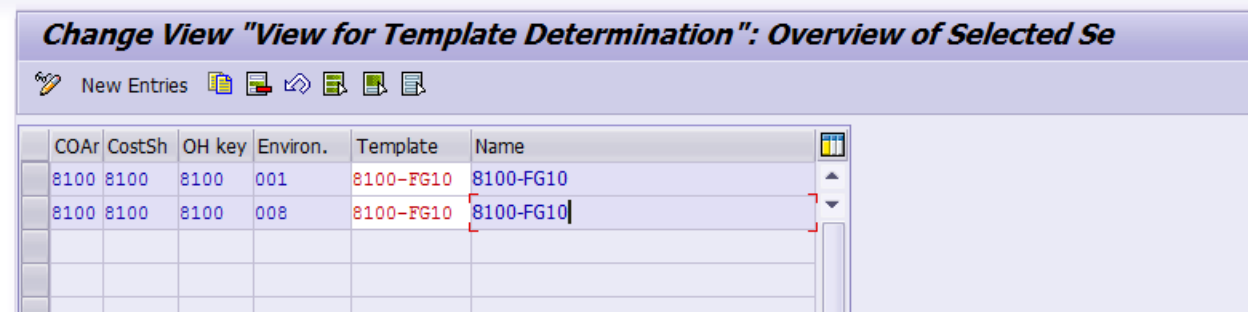


Check Planning Strategies-OPPS



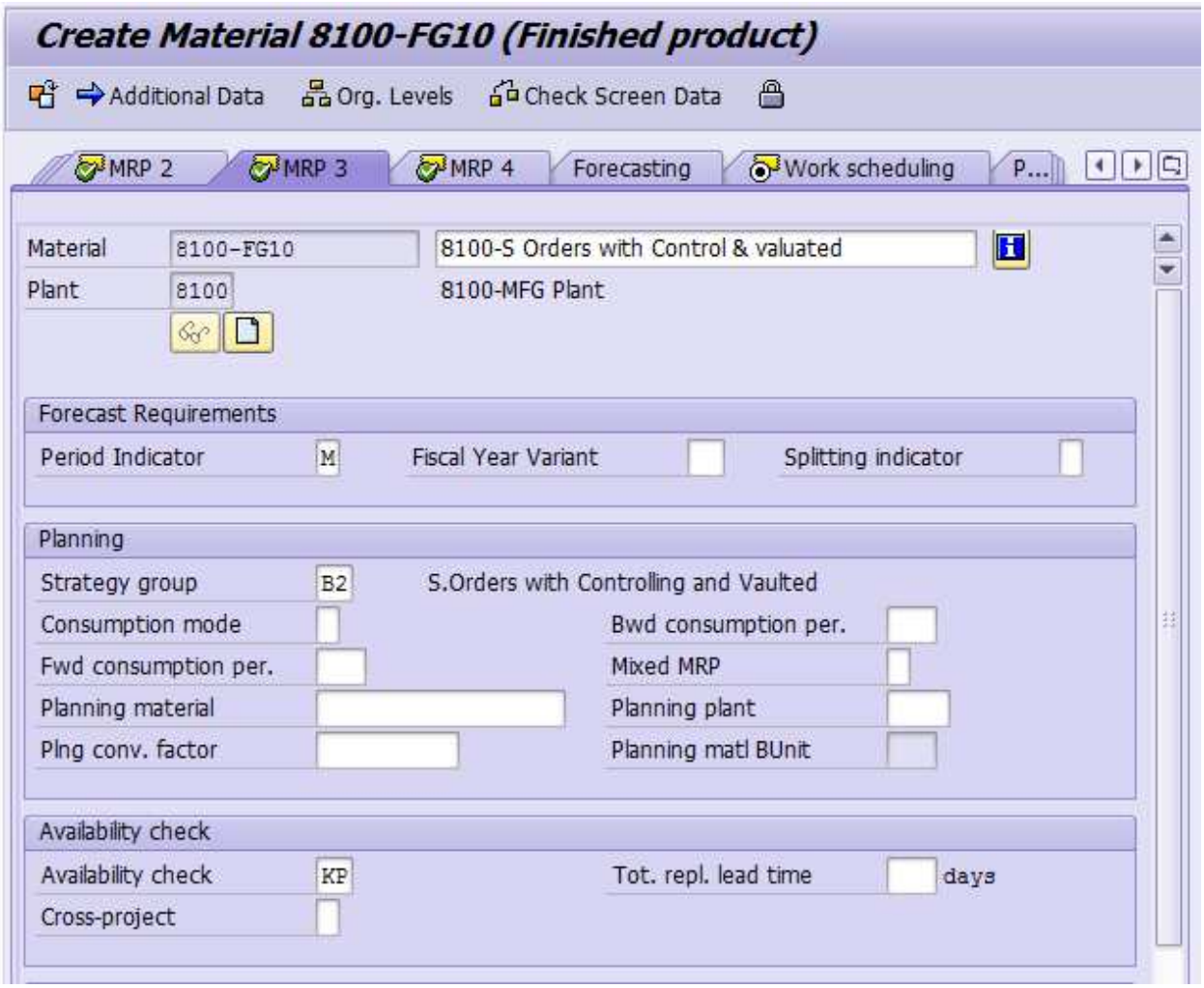
Check Strategy Groups-OPPT

Template Allocation-Configuration

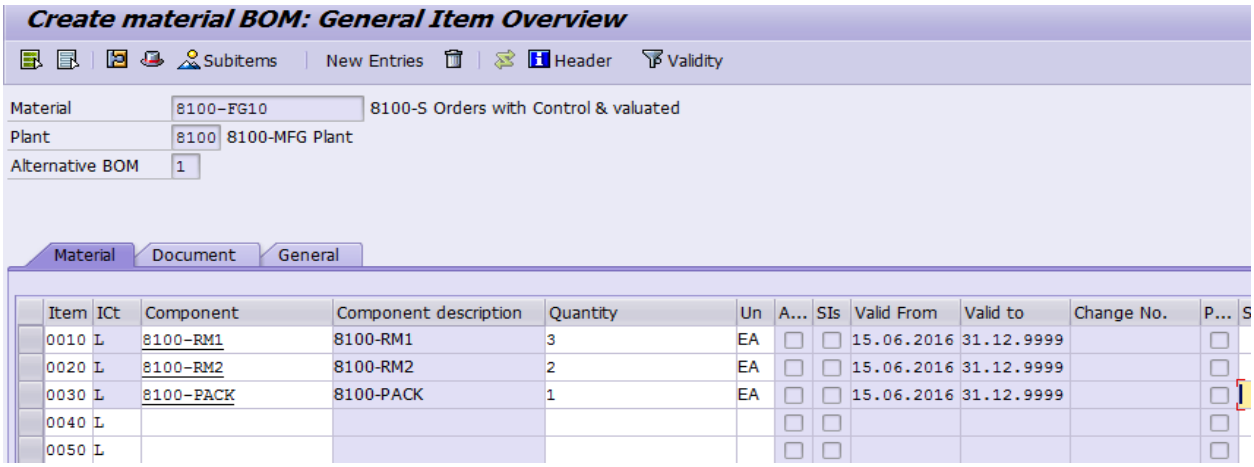


Testing

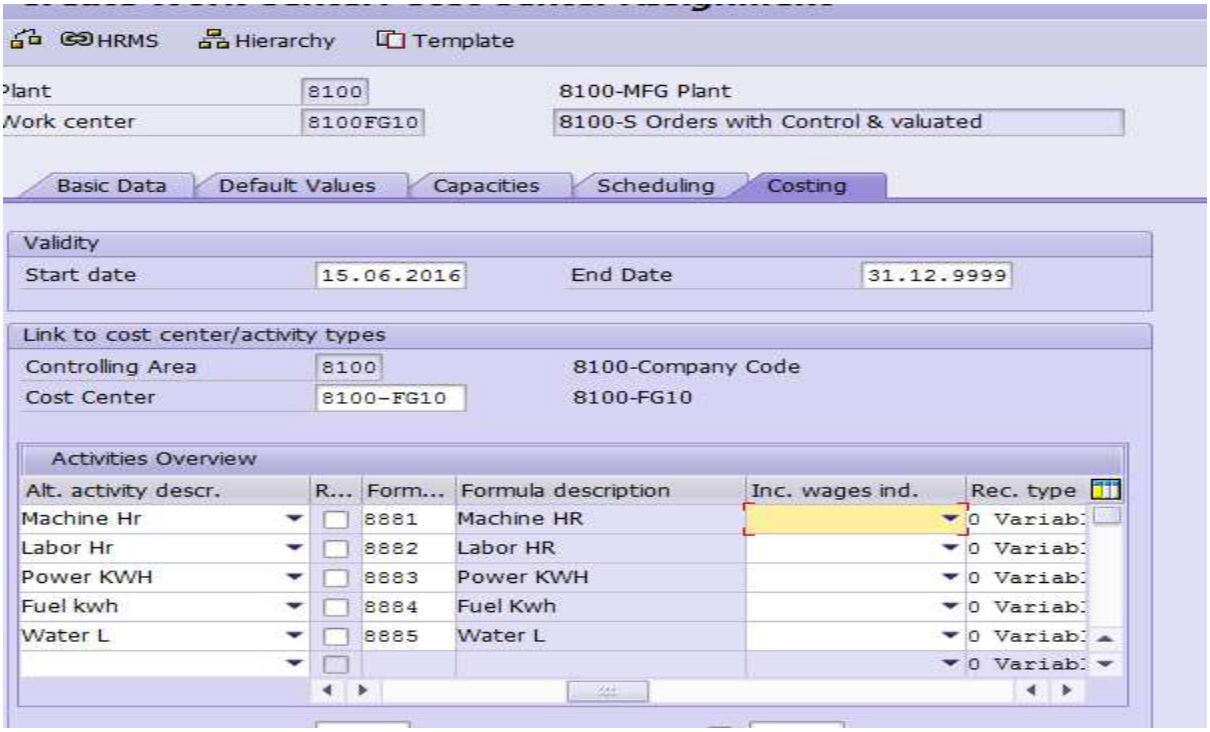
Material Master Creation-MM01



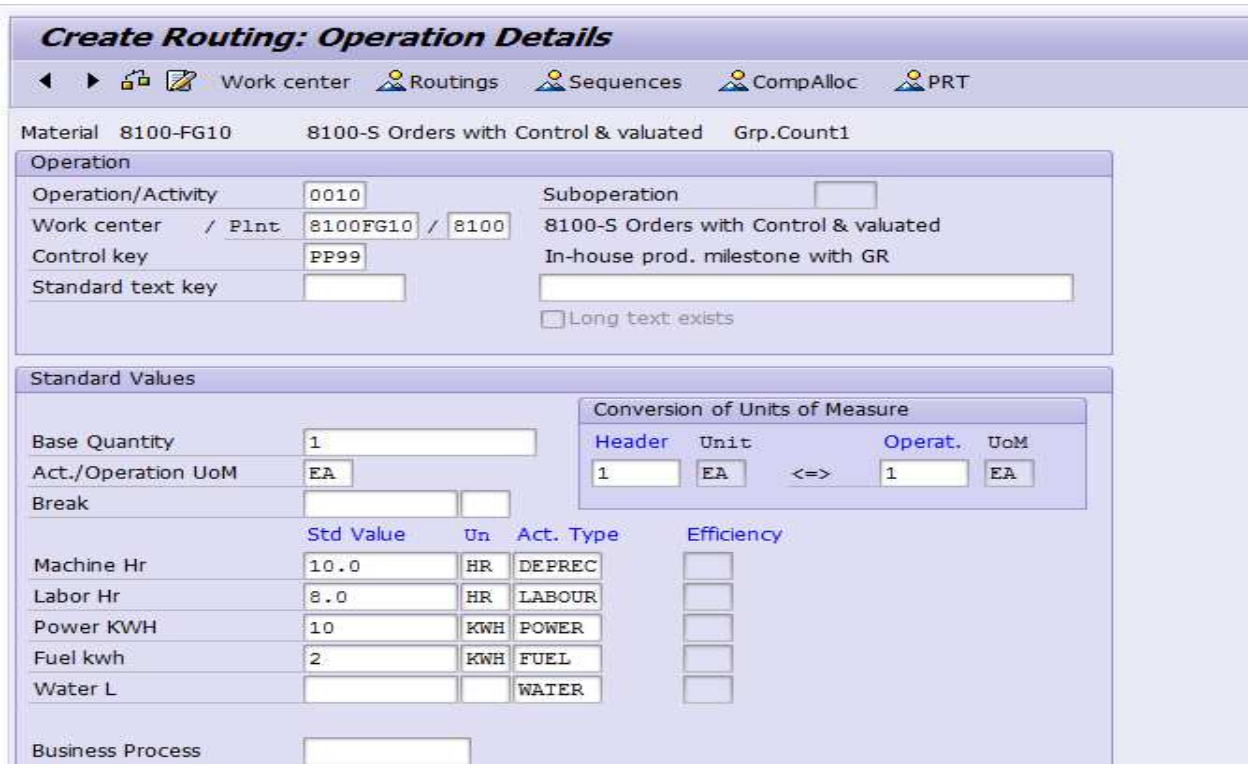
CS01



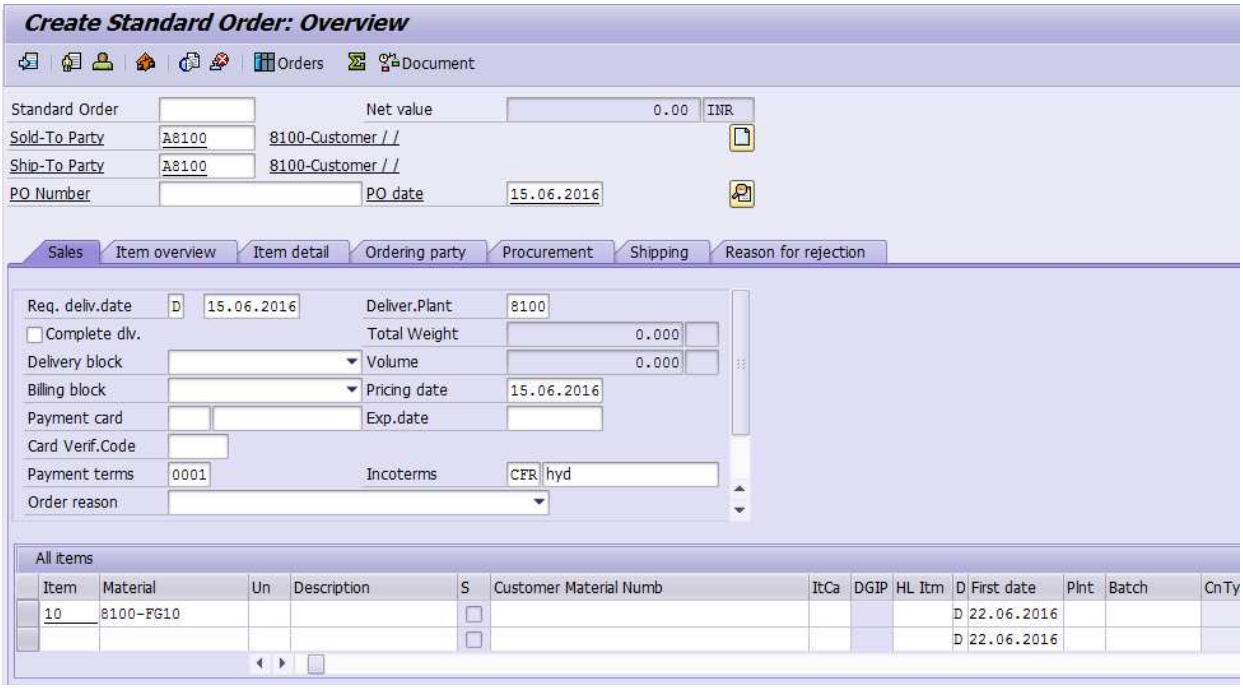
CR01

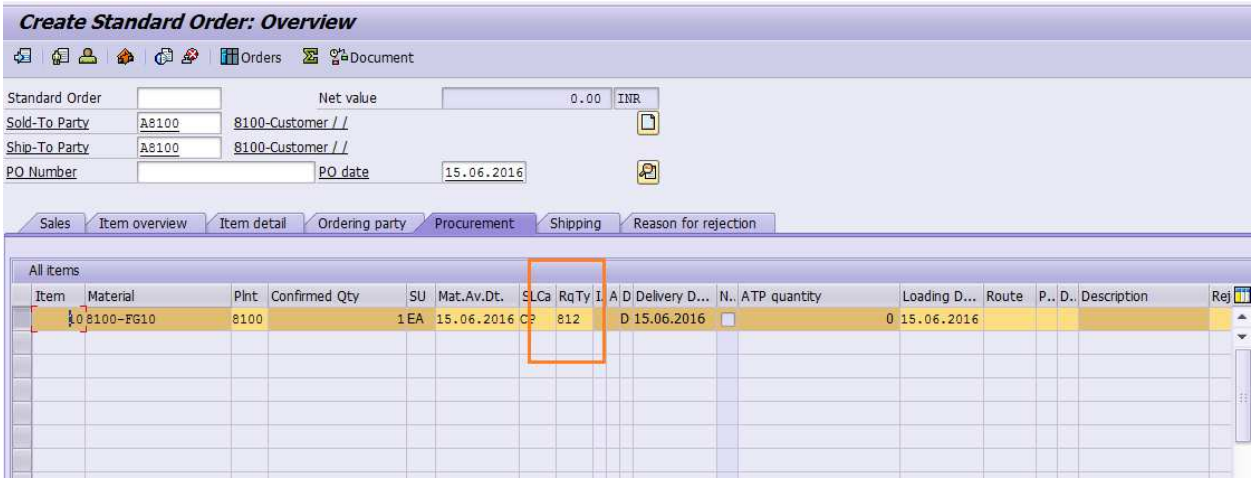

HRMS
Hierarchy
Template
Plant 8100 8100-MFG Plant
Work center 8100FG10 8100-S Orders with Control & valuated
Basic Data
Default Values
Capacities
Scheduling
Costing
Validity
Start date 15.06.2016
End Date 31.12.9999
Link to cost center/activity types
Controlling Area 8100 8100-Company Code
Cost Center 8100-FG10 8100-FG10
Activities Overview
Alt. activity descr. | R... | Form... | Formula description | Inc. wages ind. | Rec. type
Machine Hr | 8881 | Machine HR | 0 Variab
Labor Hr | 8882 | Labor HR | 0 Variab
Power KWH | 8883 | Power KWH | 0 Variab
Fuel kwh | 8884 | Fuel Kwh | 0 Variab
Water L | 8885 | Water L | 0 Variab

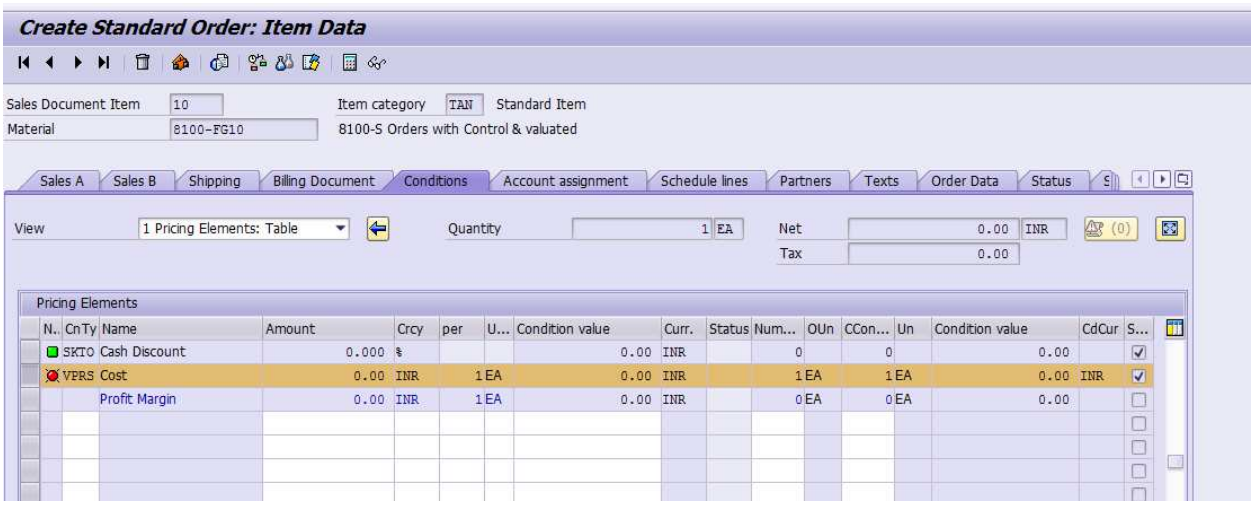
CA01

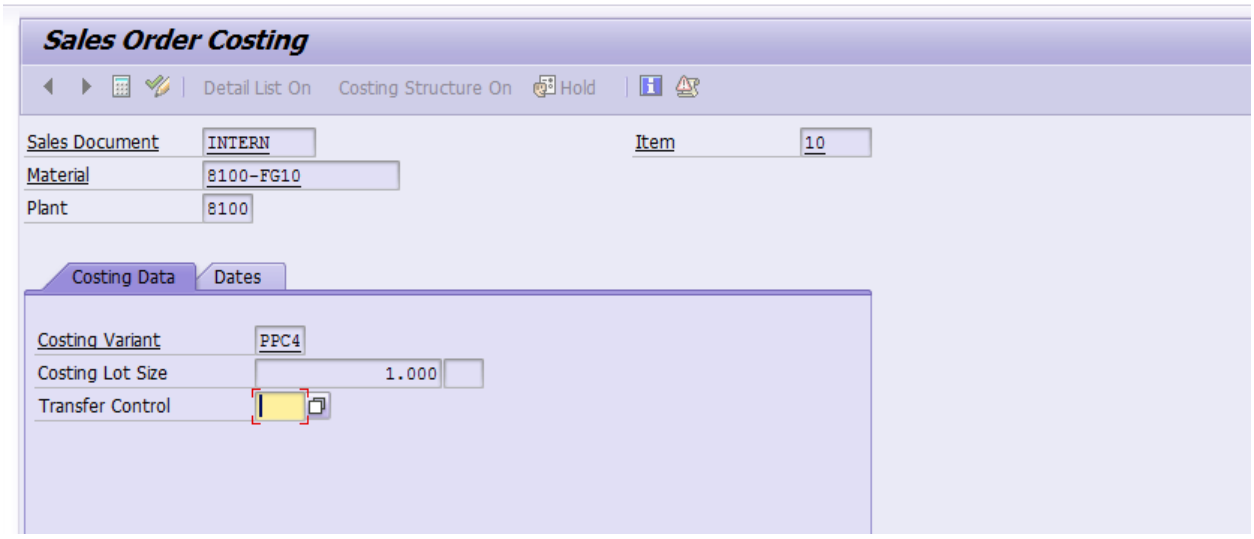

Create Routing: Operation Details
Work center
Routings
Sequences
CompAlloc
PRT
Material 8100-FG10 8100-S Orders with Control & valuated Grp.Count1
Operation
Operation/Activity 0010
Suboperation
Work center / Plnt 8100FG10 / 8100
8100-S Orders with Control & valuated
Control key PP99
In-house prod. milestone with GR
Standard text key
Long text exists
Standard Values
Conversion of Units of Measure
Base Quantity 1
Act./Operation UoM EA
Break
Header Unit Operat. UoM
1 EA <=> 1 EA
Std Value Un Act. Type Efficiency
Machine Hr 10.0 HR DEPREC
Labor Hr 8.0 HR LABOUR
Power KWH 10 KWH POWER
Fuel kwh 2 KWH FUEL
Water L WATER
Business Process

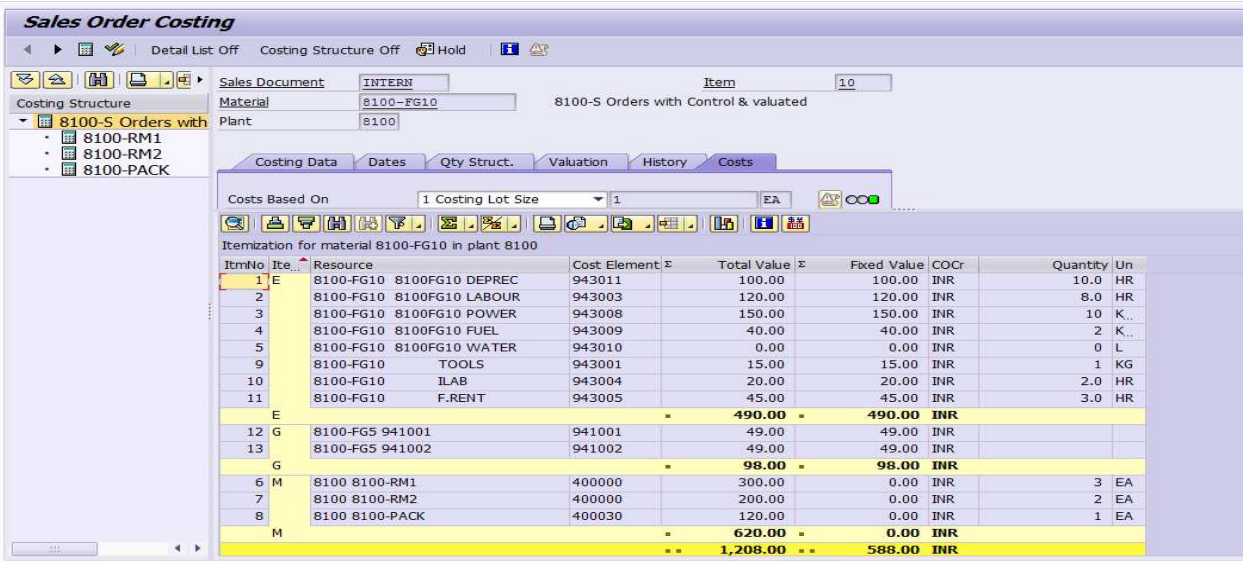
VA01-Sales Order creation



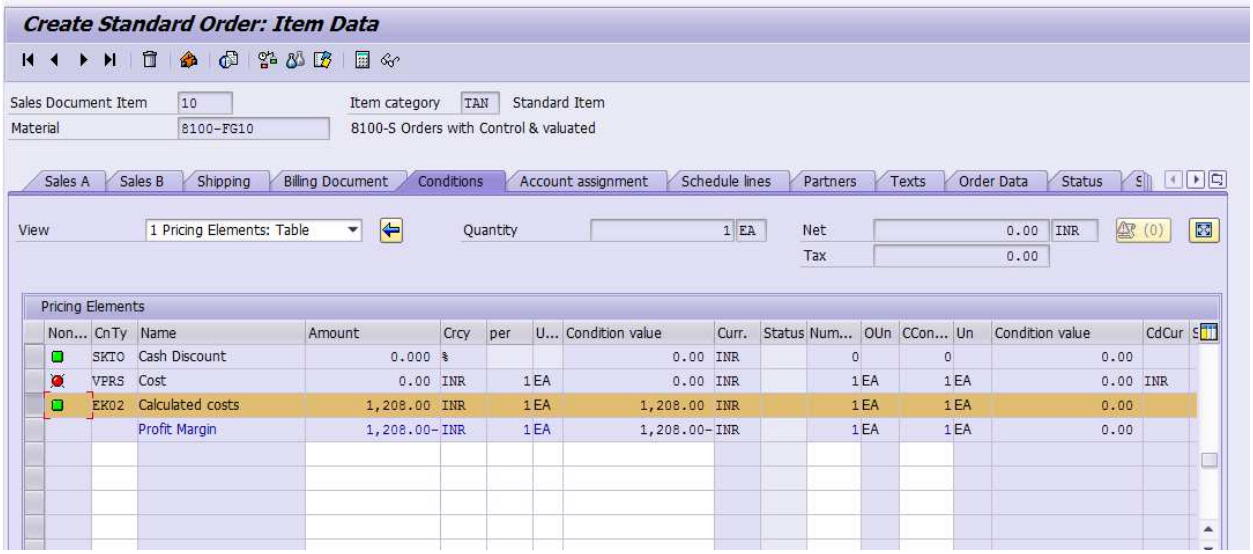



Create Standard Order: Item Data
Sales Document Item 10
Item category TAN Standard Item
Material 8100-FG10
8100-S Orders with Control & valuated
Sales A | Sales B | Shipping | Billing Document | Conditions | Account assignment | Schedule lines | Partners | Texts | Order Data | Status
View 1 Pricing Elements: Table
Quantity 1 EA
Net 0.00 INR
Tax 0.00
Pricing Elements
N.. CnTy Name Amount Crcy per U... Condition value Curr. Status Num... OUn CCon... Un Condition value CdCur S...
SKTO Cash Discount 0.000 % 0.00 INR 0 0 0.00
VPRS Cost 0.00 INR 1 EA 0.00 INR 1 EA 1 EA 0.00 INR
Profit Margin 0.00 INR 1 EA 0.00 INR 0 EA 0 EA 0.00

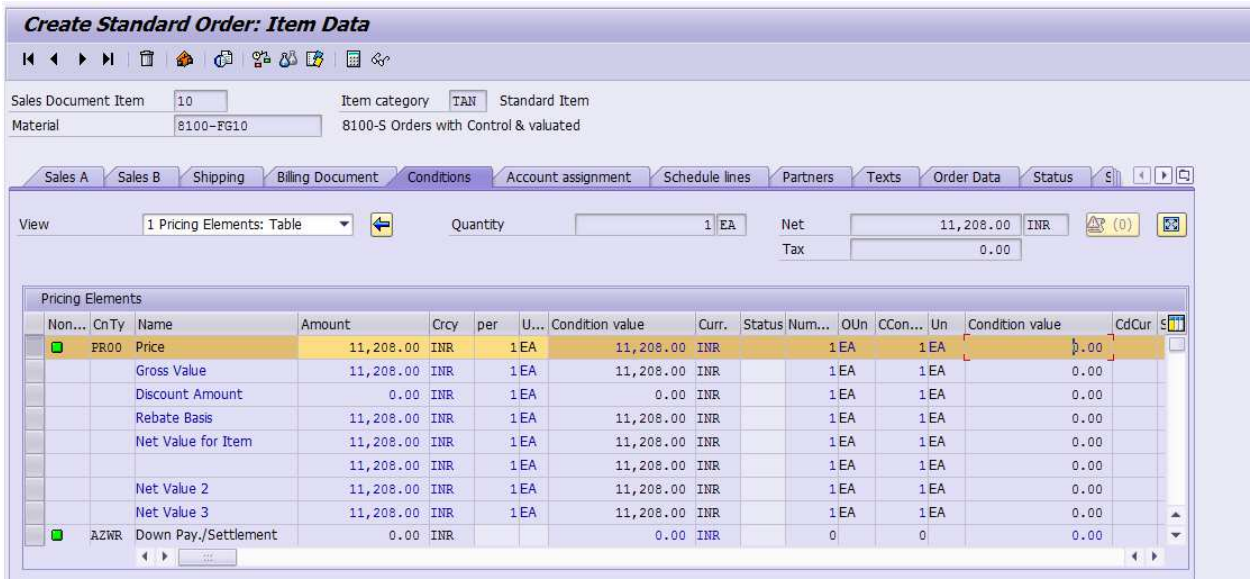

Sales Order Costing
Detail List On | Costing Structure On | Hold
Sales Document INTERN
Item 10
Material 8100-FG10
Plant 8100
Costing Data | Dates
Costing Variant PPC4
Costing Lot Size 1.000
Transfer Control


Sales Order Costing
Detail List Off | Costing Structure Off | Hold
Costing Structure
8100-S Orders with
8100-RM1
8100-RM2
8100-PACK
Sales Document INTERN
Item 10
Material 8100-FG10
8100-S Orders with Control & valuated
Plant 8100
Costing Data | Dates | Qty Struct. | Valuation | History | Costs
Costs Based On 1 Costing Lot Size 1 EA
Itemization for material 8100-FG10 in plant 8100
ItmNo Ite... Resource Cost Element Total Value Fixed Value COCr Quantity Un
1 E 8100-FG10 8100FG10 DEPREC 943011 100.00 100.00 INR 10.0 HR
2 8100-FG10 8100FG10 LABOUR 943003 120.00 120.00 INR 8.0 HR
3 8100-FG10 8100FG10 POWER 943008 150.00 150.00 INR 10 K..
4 8100-FG10 8100FG10 FUEL 943009 40.00 40.00 INR 2 K..
5 8100-FG10 8100FG10 WATER 943010 0.00 0.00 INR 0 L
9 8100-FG10 TOOLS 943001 15.00 15.00 INR 1 KG
10 8100-FG10 ILAB 943004 20.00 20.00 INR 2.0 HR
11 8100-FG10 F.RENT 943005 45.00 45.00 INR 3.0 HR
E 490.00 490.00 INR
12 G 8100-FG5 941001 941001 49.00 49.00 INR
13 8100-FG5 941002 941002 49.00 49.00 INR
G 98.00 98.00 INR
6 M 8100 8100-RM1 400000 300.00 0.00 INR 3 EA
7 8100 8100-RM2 400000 200.00 0.00 INR 2 EA
8 8100 8100-PACK 400030 120.00 0.00 INR 1 EA
M 620.00 0.00 INR
1,208.00 588.00 INR

EK02-Sales Order Cost



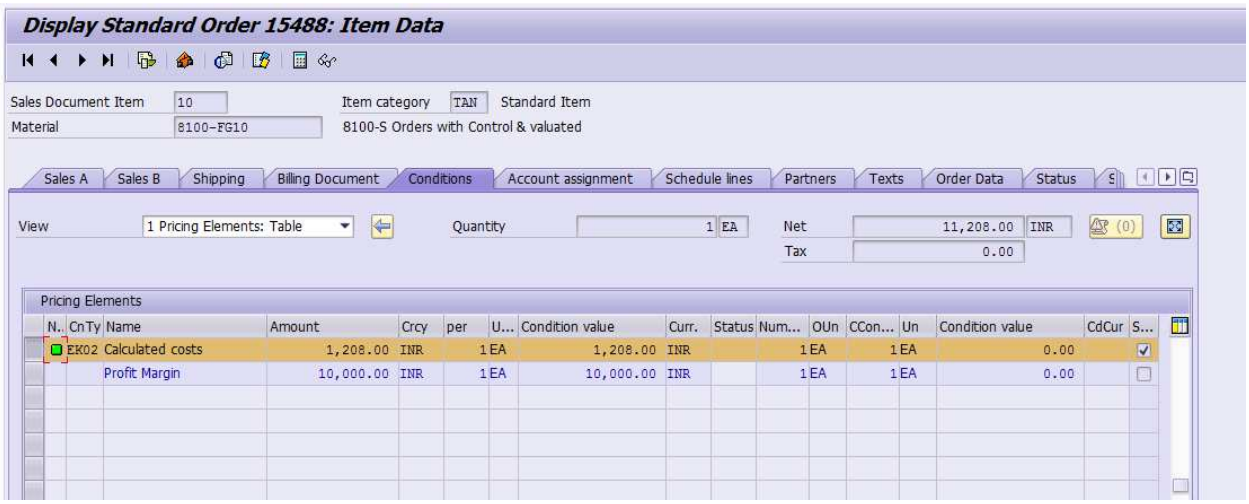
PR00-Price of the Product



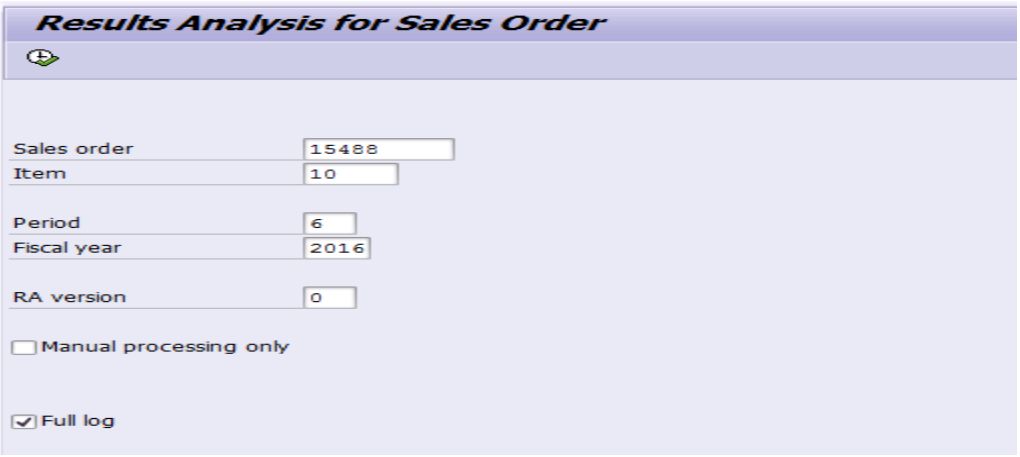
After Create Sales Order

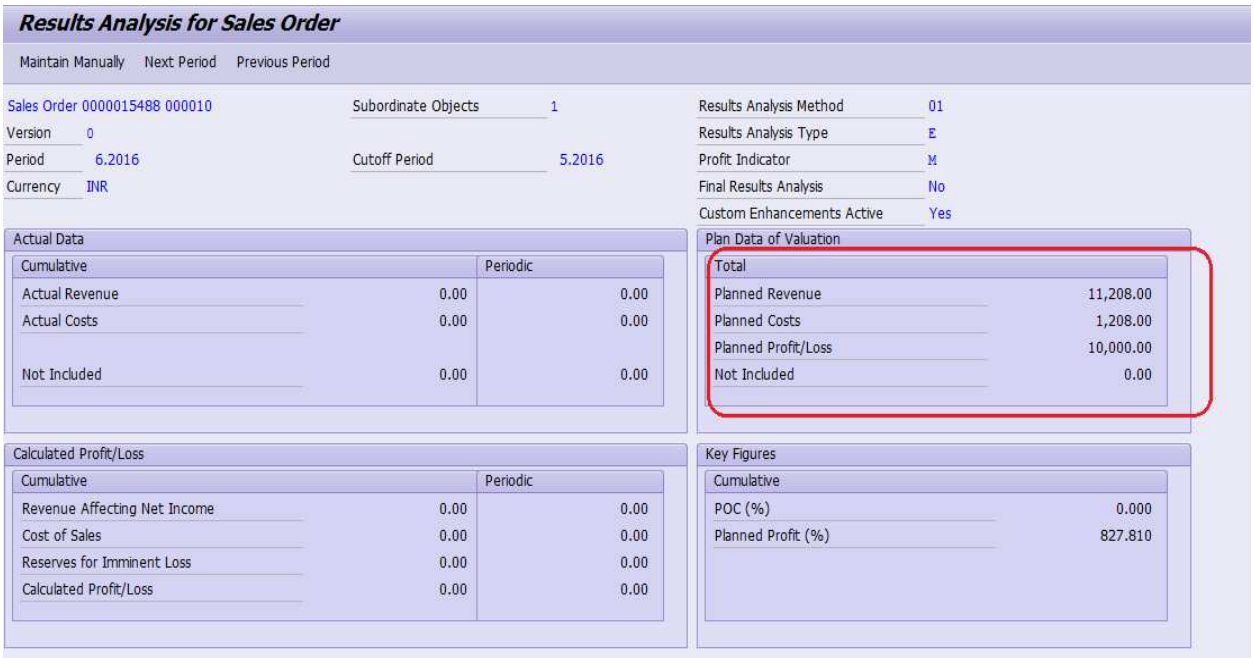
Planned Price = 11,208.00

Sales Order Cost = 1,208.00

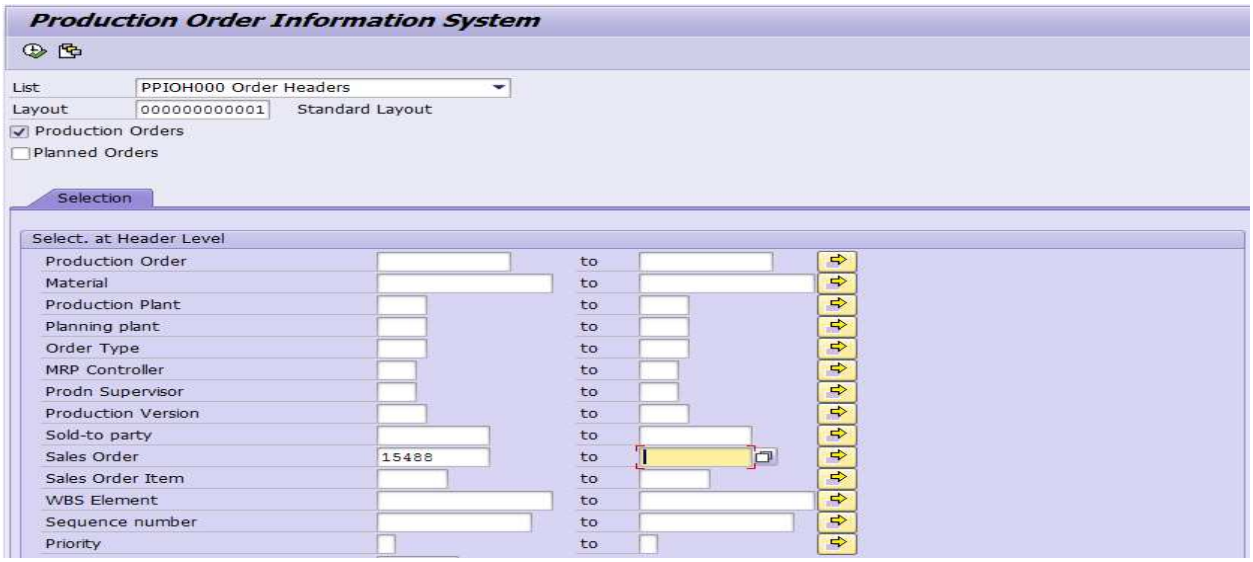


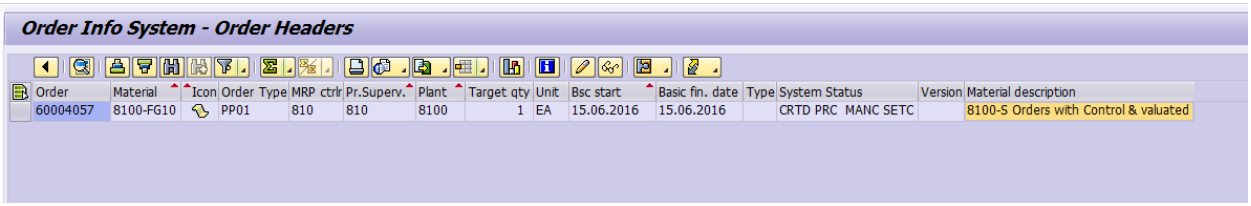
KKA3-Result Analysis



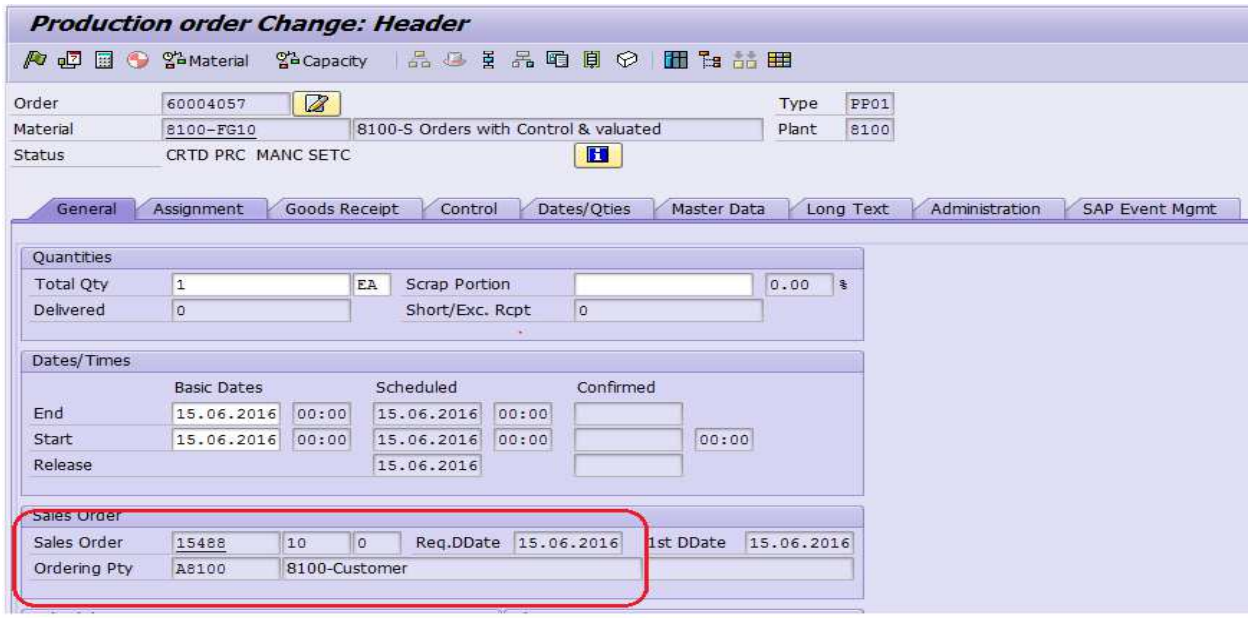


COOIS


Production Order Information System
List
PPIOH000 Order Headers
Layout
000000000001
Standard Layout
Production Orders
Planned Orders
Selection
Select. at Header Level
Production Order
Material
Production Plant
Planning plant
Order Type
MRP Controller
Prodn Supervisor
Production Version
Sold-to party
Sales Order
15488
Sales Order Item
WBS Element
Sequence number
Priority
to


Order Info System - Order Headers
Order
Material
Icon
Order Type
MRP ctrlr
Pr.Superv.
Plant
Target qty
Unit
Bsc start
Basic fin. date
Type
System Status
Version
Material description
60004057
8100-FG10
PP01
810
810
8100
1
EA
15.06.2016
15.06.2016
CRTD PRC MANC SETC
8100-S Orders with Control & valuated

CO03


Production order Change: Header
Material
Capacity
Order
60004057
Material
8100-FG10
8100-S Orders with Control & valuated
Status
CRTD PRC MANC SETC
Type
PP01
Plant
8100
General
Assignment
Goods Receipt
Control
Dates/Qties
Master Data
Long Text
Administration
SAP Event Mgmt
Quantities
Total Qty
1
EA
Scrap Portion
0.00
%
Delivered
0
Short/Exc. Rcpt
0
Dates/Times
Basic Dates
Scheduled
Confirmed
End
15.06.2016
00:00
15.06.2016
00:00
Start
15.06.2016
00:00
15.06.2016
00:00
00:00
Release
15.06.2016
Sales Order
Sales Order
15488
10
0
Req.DDate
15.06.2016
1st DDate
15.06.2016
Ordering Pty
A8100
8100-Customer

Cost Trend

Order 60004057 8100-FG10
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG10 8100-S Orders with Control & valuated

Planned Quantity 1 EA Each

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		300.00		0.00		300.00-	100.00-	INR
	8100/8100-RM2	8100-RM2		200.00		0.00		200.00-	100.00-	INR
	8100/8100-PACK	8100-PACK		120.00		0.00		120.00-	100.00-	INR
Goods Issues			▪	**620.00**	▪	**0.00**	▪	**620.00-**		**INR**
Confirmations	8100-FG10/TOOLS	8100-FG10 / Tools		15.00		0.00		15.00-	100.00-	INR
	8100-FG10/LABOUR	8100-FG10 / Direct Labour		120.00		0.00		120.00-	100.00-	INR
	8100-FG10/ILAB	8100-FG10 / Indirect Labour		20.00		0.00		20.00-	100.00-	INR
	8100-FG10/F.RENT	8100-FG10 / Factory Rent		45.00		0.00		45.00-	100.00-	INR
	8100-FG10/POWER	8100-FG10 / Power		150.00		0.00		150.00-	100.00-	INR
	8100-FG10/FUEL	8100-FG10 / Fuel		40.00		0.00		40.00-	100.00-	INR
	8100-FG10/DEPREC	8100-FG10 / Depreciation		100.00		0.00		100.00-	100.00-	INR
Confirmations			▪	**490.00**	▪	**0.00**	▪	**490.00-**		**INR**
Overhead	8100-FG5	8100-FG5		49.00		0.00		49.00-	100.00-	INR
	8100-FG5	8100-FG5		49.00		0.00		49.00-	100.00-	INR
Overhead			▪	**98.00**	▪	**0.00**	▪	**98.00-**		**INR**
Goods Receipt	8100/8100-FG10	8100-S Orders with Control & v...		1,208.00-		0.00		1,208.00	100.00-	INR
Goods Receipt			▪	**1,208.00-**	▪	**0.00**	▪	**1,208.00**		**INR**
			▪▪	**0.00**	▪▪	**0.00**	▪▪	**0.00**		**INR**

Production Order Confirmation-CO11N

Enter Time Ticket for Production Order

Goods Movements | Actual Data

Confirmation	123997			
Order	60004057	Material	8100-FG10	8100-S Orders with Control &...
Operation	0010	Sequence	0	
Suboperation				
Capacity Cat.		Split		
Work Center	8100FG10	Plant	8100	8100-S Orders with Control & valuated

Confirm.type: X Final confirmation — Clear open reservations

Quantities

	To Be Confirmed	Unit
Yield	1	EA
Scrap		
Rework		
Reason for Var.		

Activities

	To Be Confirmed	Unit	R
Machine Hr	10.0	HR	
Labor Hr	8.0	HR	
Power KWH	10	KWH	
Fuel kwh	10	KWH	

Enter Confirmation for Production Order: Goods Movements

Order	60004057			Status:	REL
Material Number	8100-FG10			8100-S Orders with Control & valuated	
Oper./Act.	0010	Sequence	0		
Confirmation	123997	Plant	8100	Work center	8100FG10

Goods Movements Overview

Material	Quantity	U...	Plant	St...	Batch	Valuation ...	D...	M...	S..	Vendor	Customer	Compltd	D...	Date of M...
8100-FG10	1	EA	8100	8100			S	101	E		A8100	☑	☐	
8100-RM1	4	EA	8100	8100			H	261				☑	☐	
8100-RM2	3	EA	8100	8100			H	261				☑	☐	
8100-PACK	2	EA	8100	8100			H	261				☑	☐	
												☐	☐	
												☐	☐	

Order 60004057 8100-FG10
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG10 8100-S Orders with Control & valuated

Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	300.00	400.00	100.00	33.33	INR
	8100/8100-RM2	8100-RM2	200.00	300.00	100.00	50.00	INR
	8100/8100-PACK	8100-PACK	120.00	240.00	120.00	100.00	INR
Goods Issues			**620.00**	**940.00**	**320.00**		**INR**
Confirmations	8100-FG10/TOOLS	8100-FG10 / Tools	15.00	0.00	15.00-	100.00-	INR
	8100-FG10/LABOUR	8100-FG10 / Direct Labour	120.00	120.00	0.00		INR
	8100-FG10/ILAB	8100-FG10 / Indirect Labour	20.00	0.00	20.00-	100.00-	INR
	8100-FG10/F.RENT	8100-FG10 / Factory Rent	45.00	0.00	45.00-	100.00-	INR
	8100-FG10/POWER	8100-FG10 / Power	150.00	150.00	0.00		INR
	8100-FG10/FUEL	8100-FG10 / Fuel	40.00	200.00	160.00	400.00	INR
	8100-FG10/DEPREC	8100-FG10 / Depreciation	100.00	100.00	0.00		INR
Confirmations			**490.00**	**570.00**	**80.00**		**INR**
Overhead	8100-FG5	8100-FG5	49.00	0.00	49.00-	100.00-	INR
	8100-FG5	8100-FG5	49.00	0.00	49.00-	100.00-	INR
Overhead			**98.00**	**0.00**	**98.00-**		**INR**
Goods Receipt	8100/8100-FG10	8100-S Orders with Control & valuated	1,208.00-	1,208.00-	0.00		INR
Goods Receipt			**1,208.00-**	**1,208.00-**	**0.00**		**INR**
			0.00	**302.00**	**302.00**		**INR**

MMBE

Stock Overview: Basic List

Selection

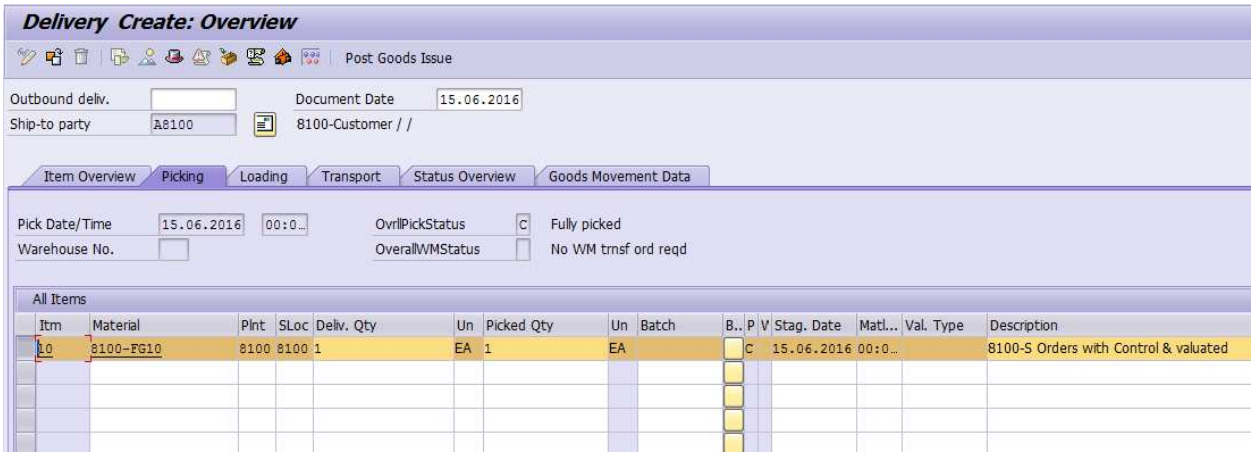
Material	8100-FG10	8100-S Orders with Control & valuated	
Material Type	FERT	Finished product	
Unit of Measure	EA	Base Unit of Measure	EA

Stock Overview

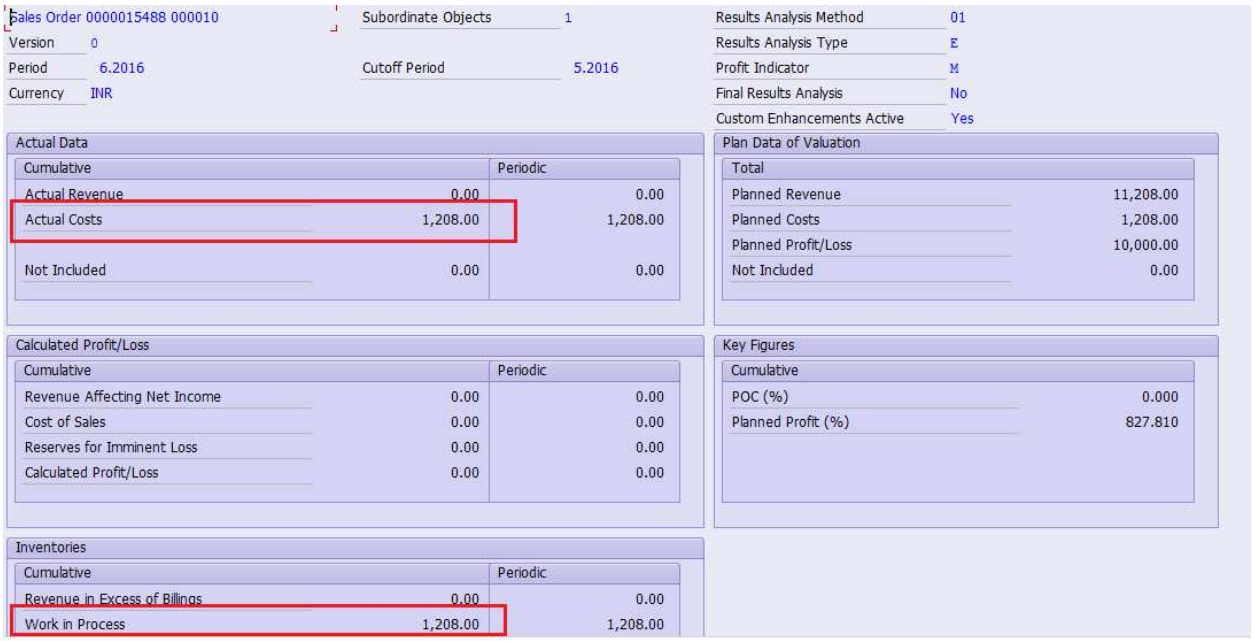
Detailed Display

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation	On-Order Stock	Consgt
Full						
8100 8100-Company Code						
8100 8100-MFG Plant						
8100 8100-S.Location						
Sales Order Stock	1.000					

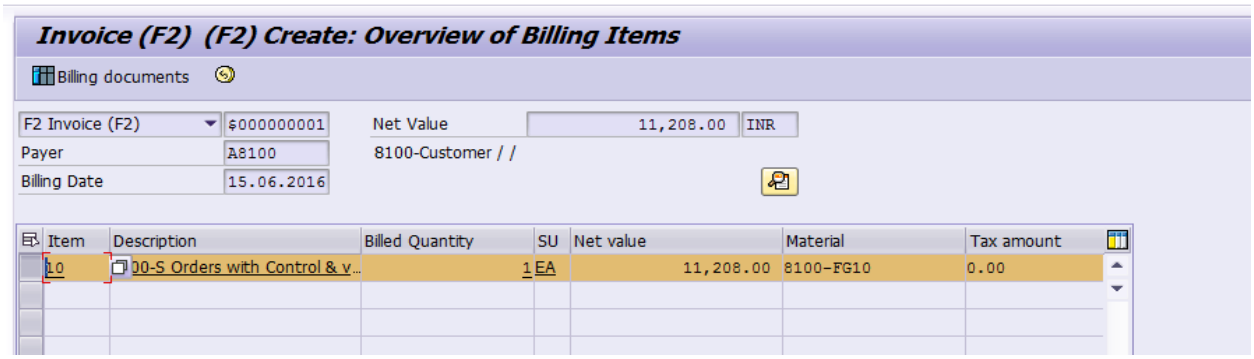
Delivery-VL01N

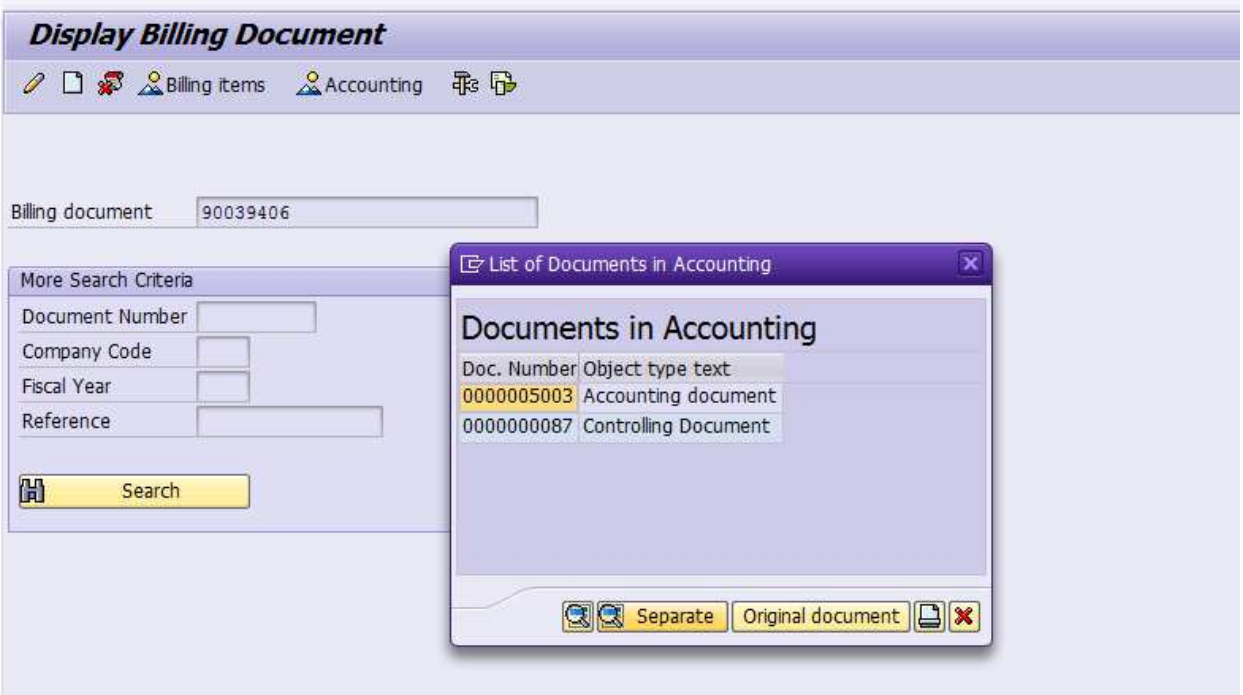


Once Delivery Completed and Run –KKA3



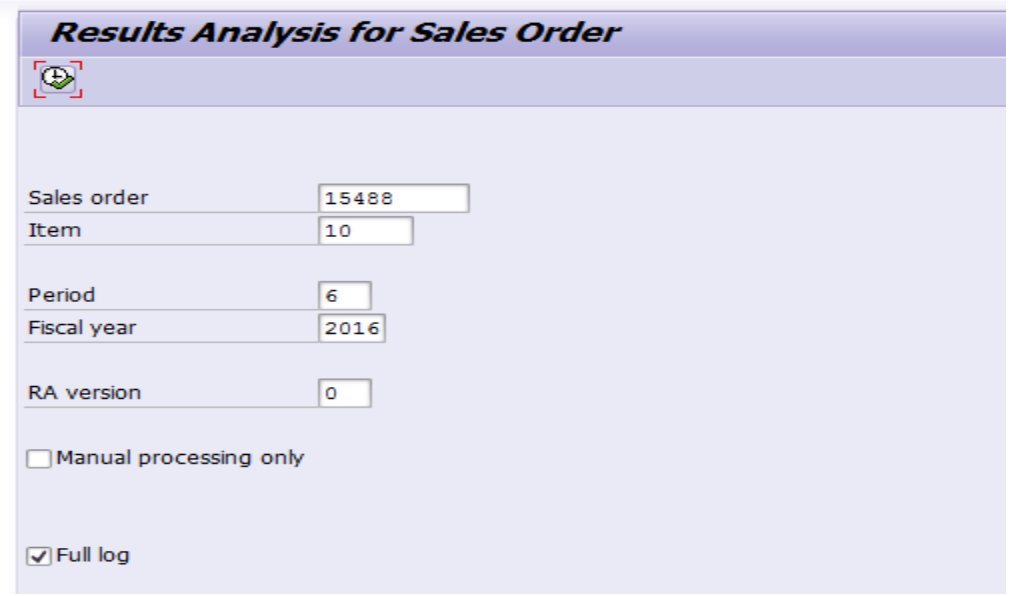
Here we can see Actual Cost (COGS) and billing not yet completed so that, it showing work in process.

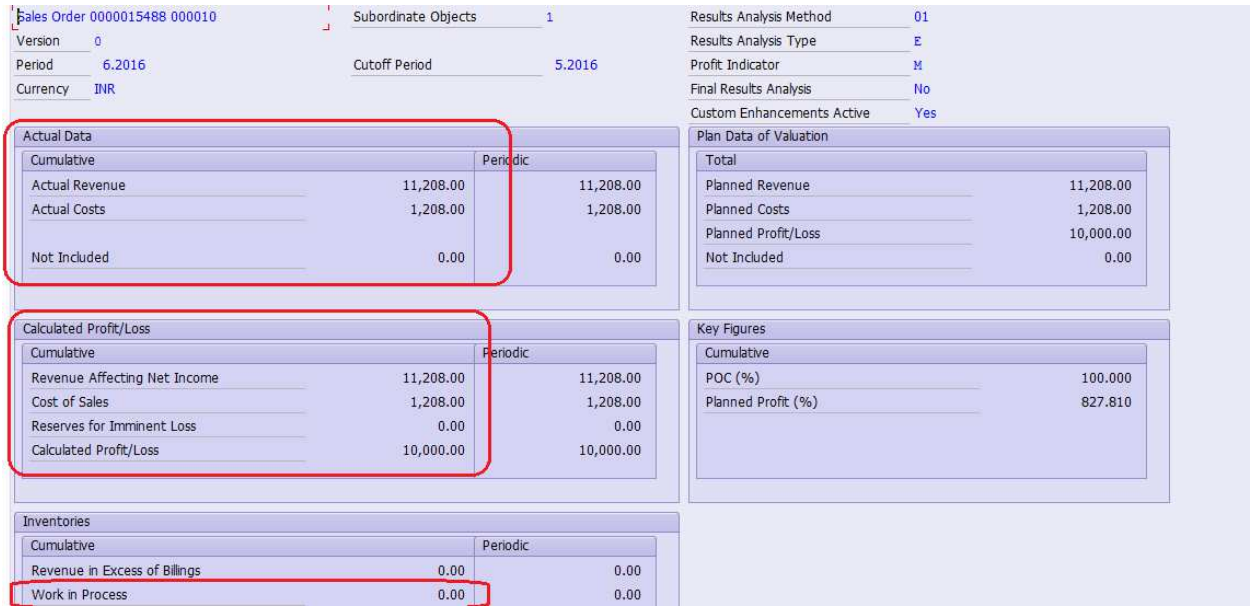




In Billing Document, There is no CO-PA document generate, because this is the Sales Controlling with vaulted scenario. So at the time of sales order settlement only COPA document will be generate.

Now Run-KKA3

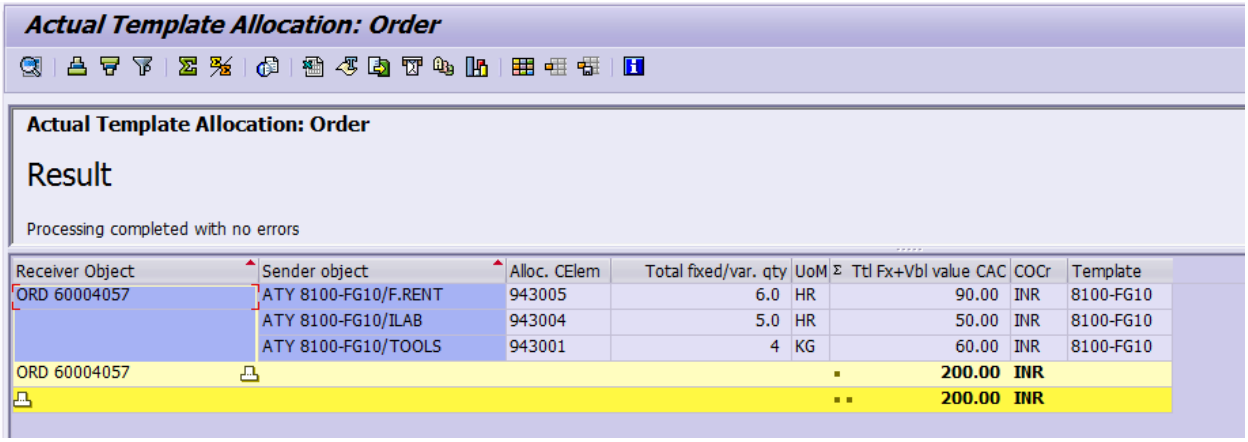




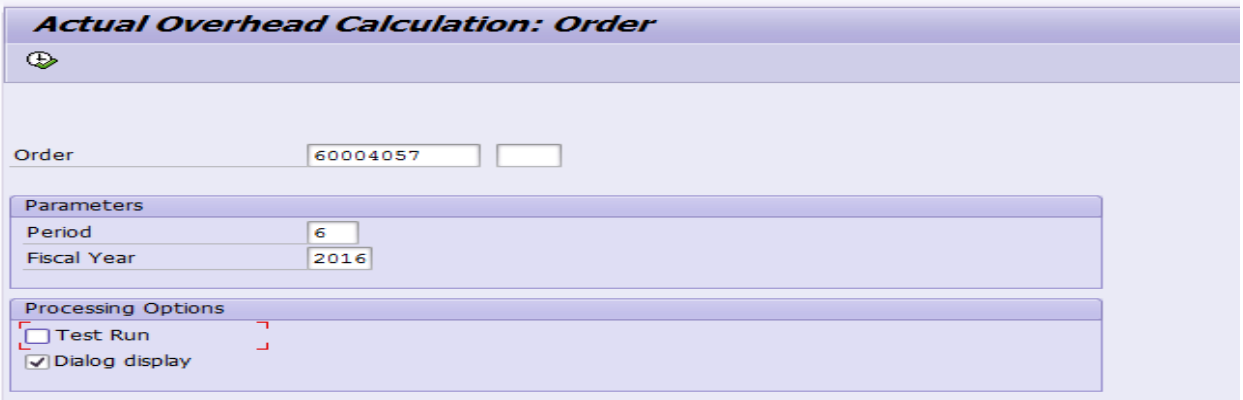
We can observe here, Actual Data (Actual Revenue, Actual cost), Calculated Profit/Loss and Work in Process ZERO because Final Billing also completed.

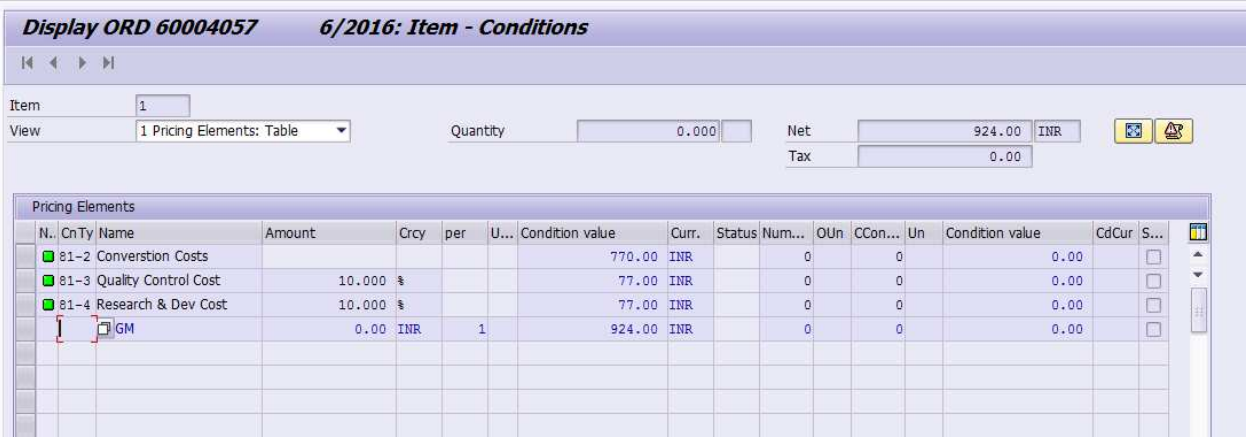
Month End Process of Production Order

Template Allocation -CPTA - Individual Processing

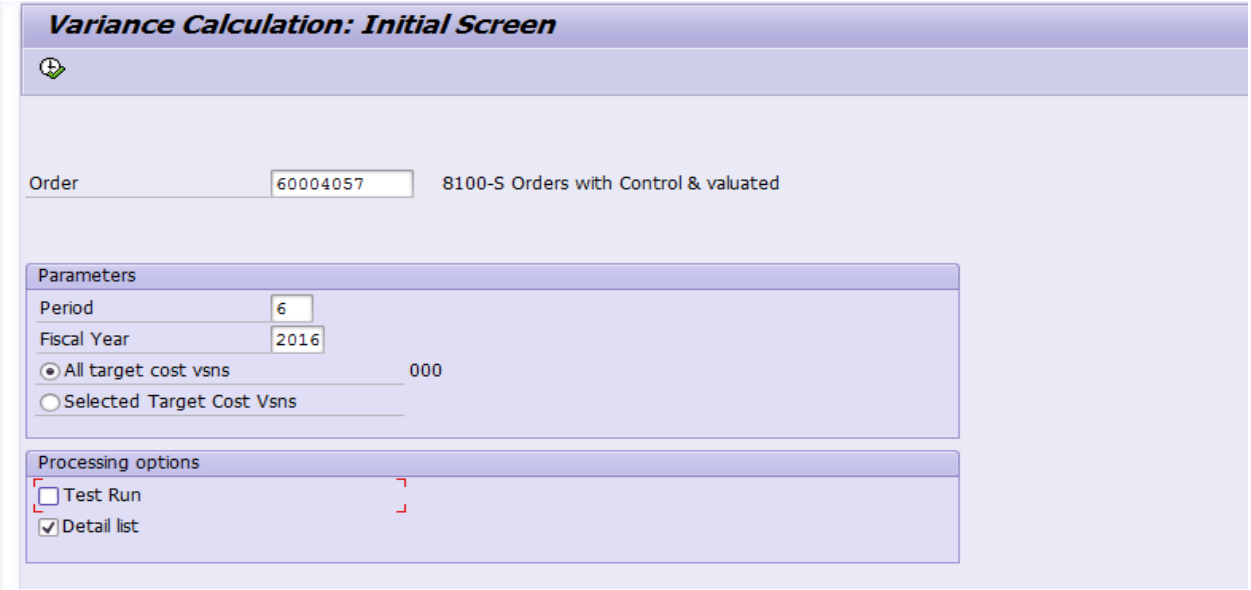


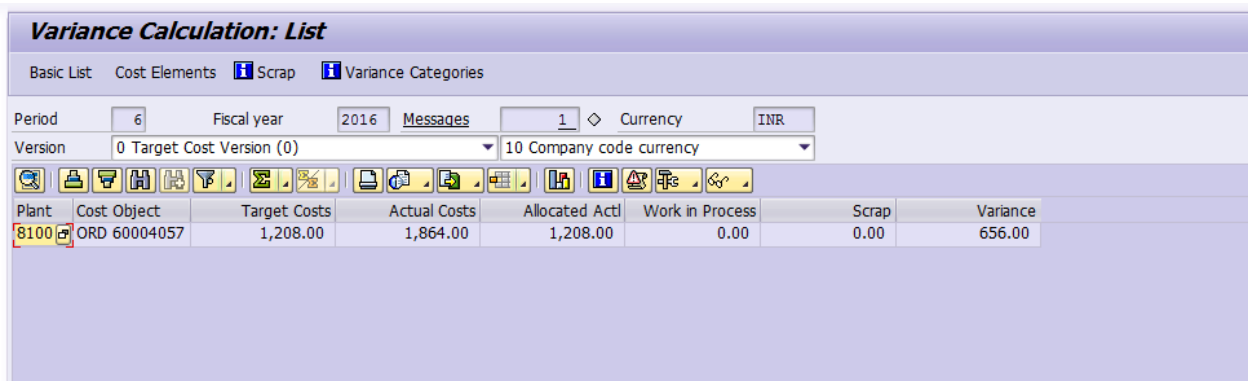
Overhead -KGI2 - Individual Processing



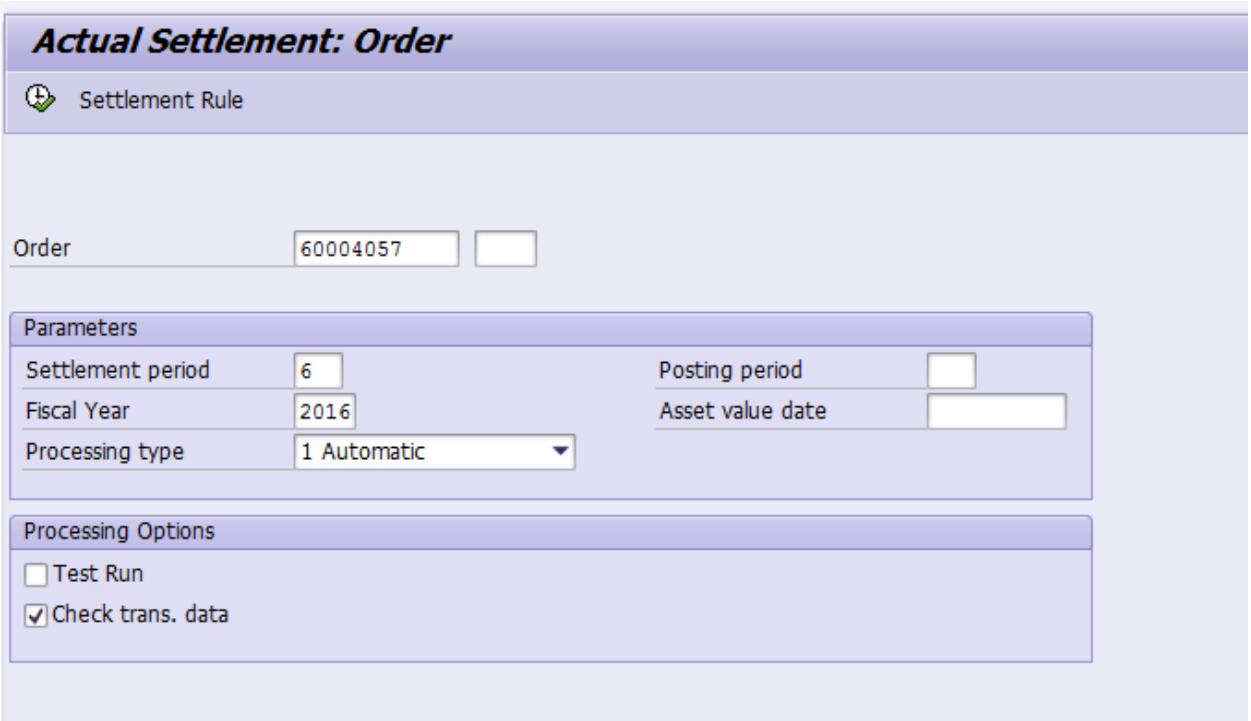


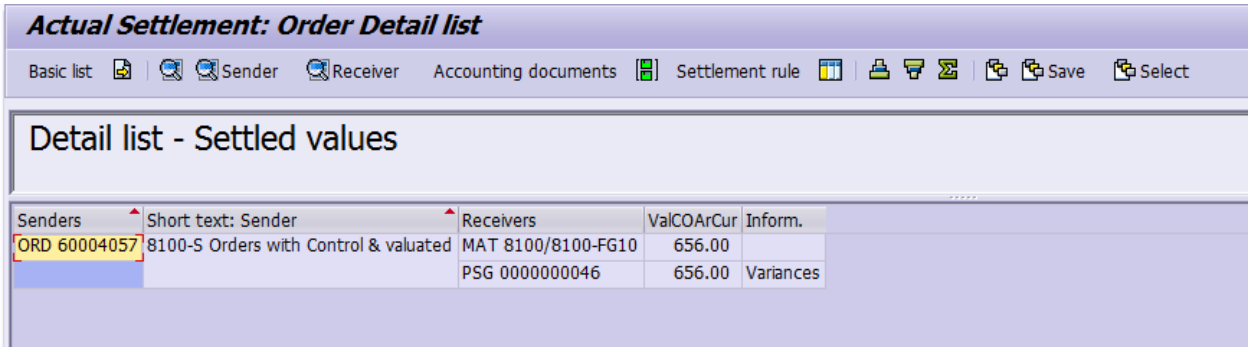
Variances- KKS2 - Individual Processing



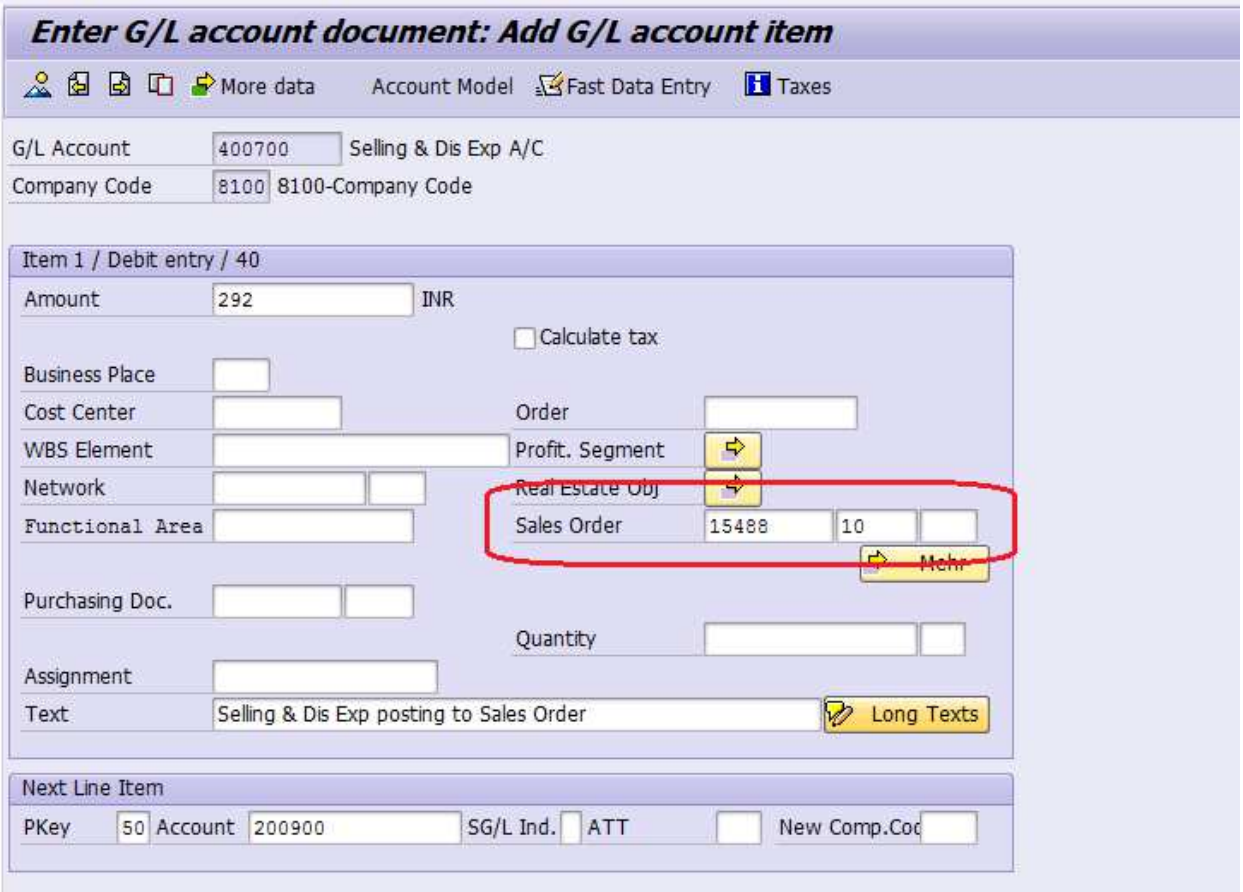


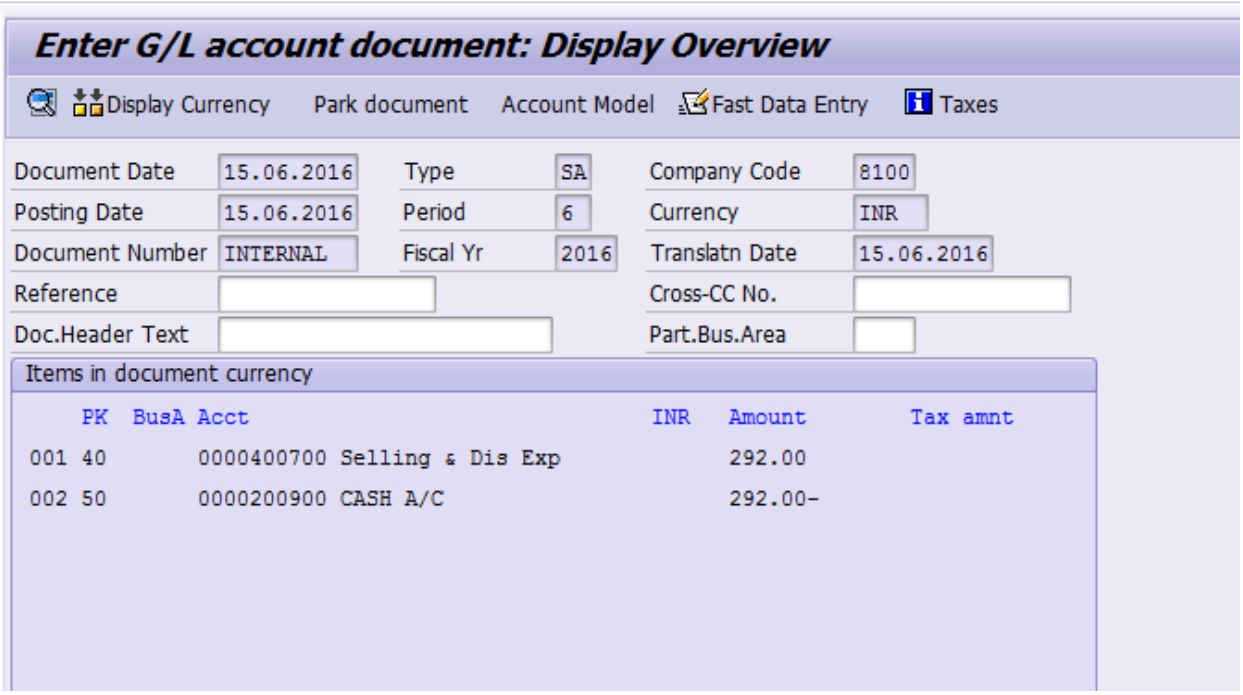
Settlement -KO88 - Individual Processing



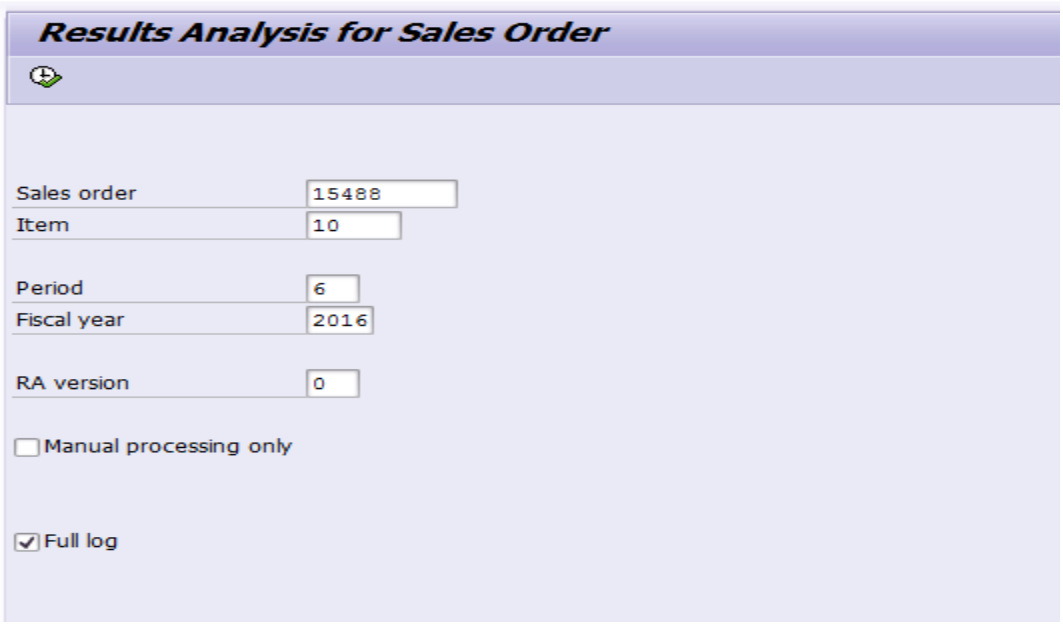


F-02 Additional Expenses booking to sales order





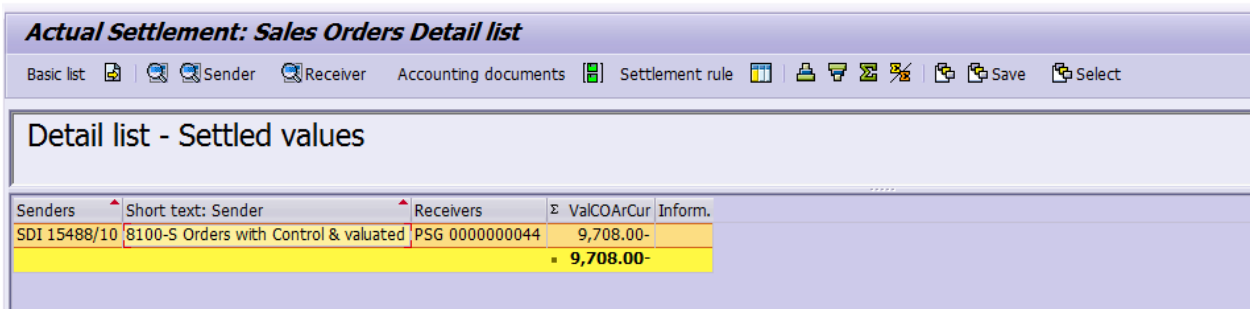
Now run KKA3

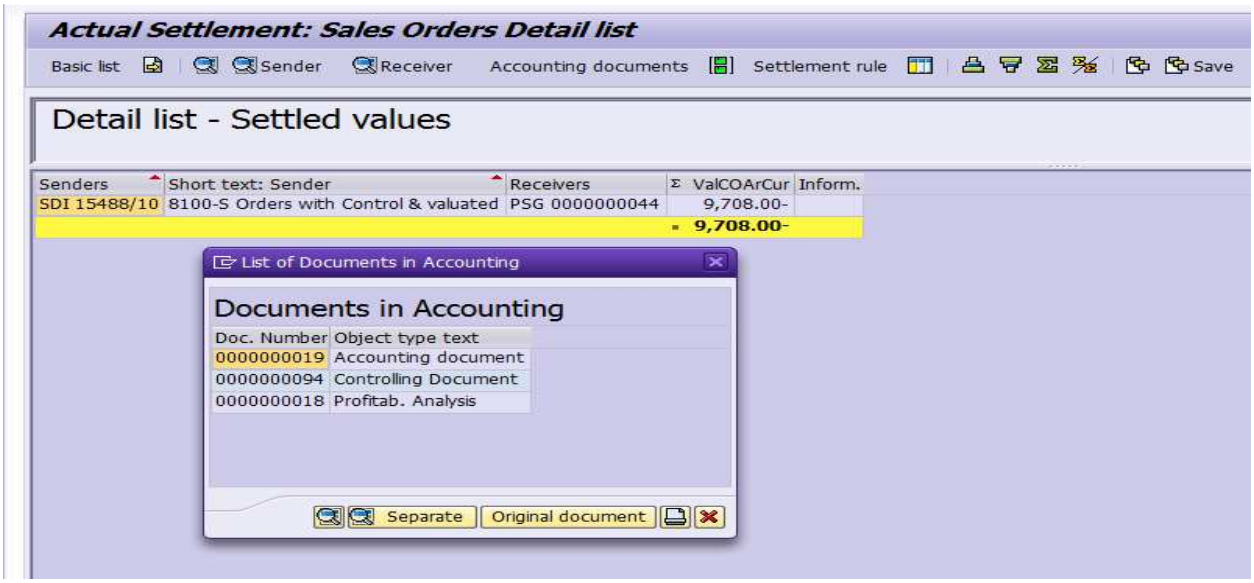


Now Actual Cost became 1500 ,we can see in Actual Data

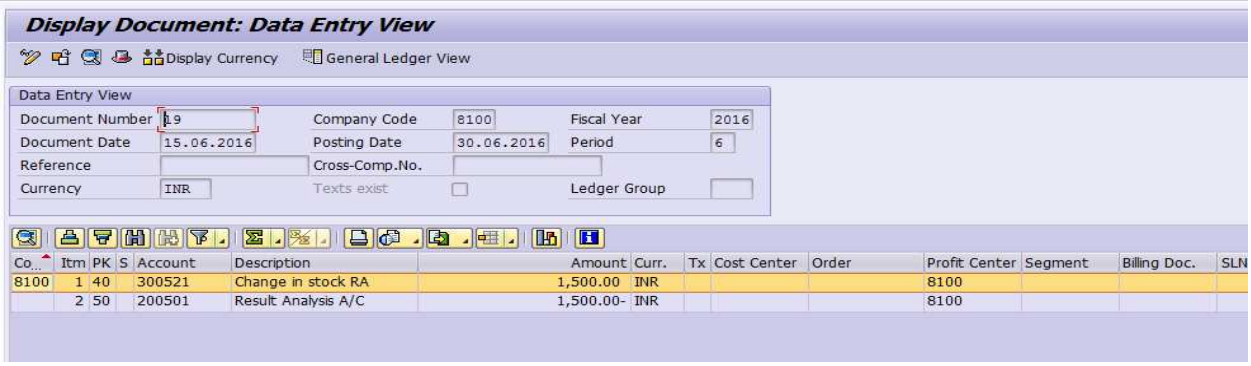
Now save KKA3

Sales Order Settlement-VA88 – Settlement

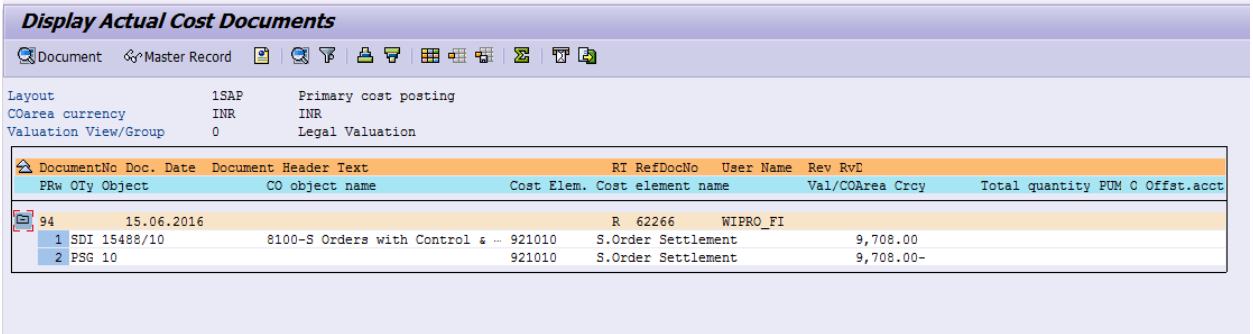




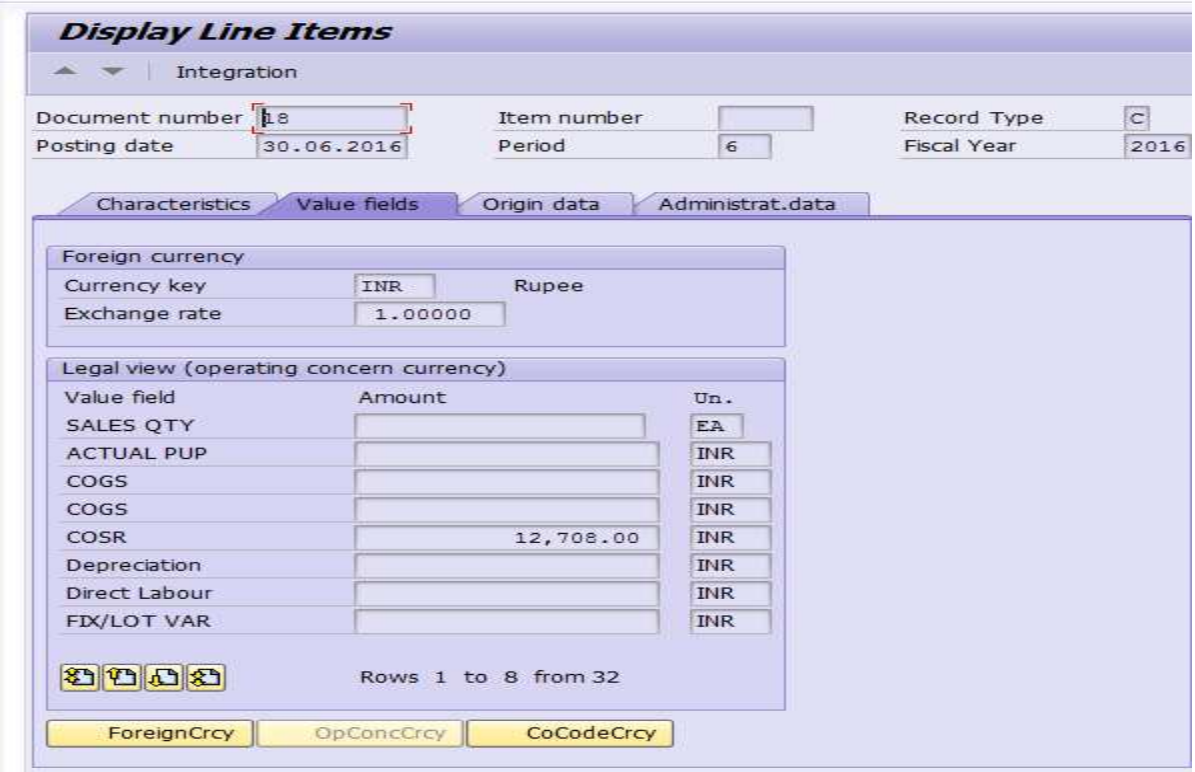
FI-Document



CO-Doc



COPA doc

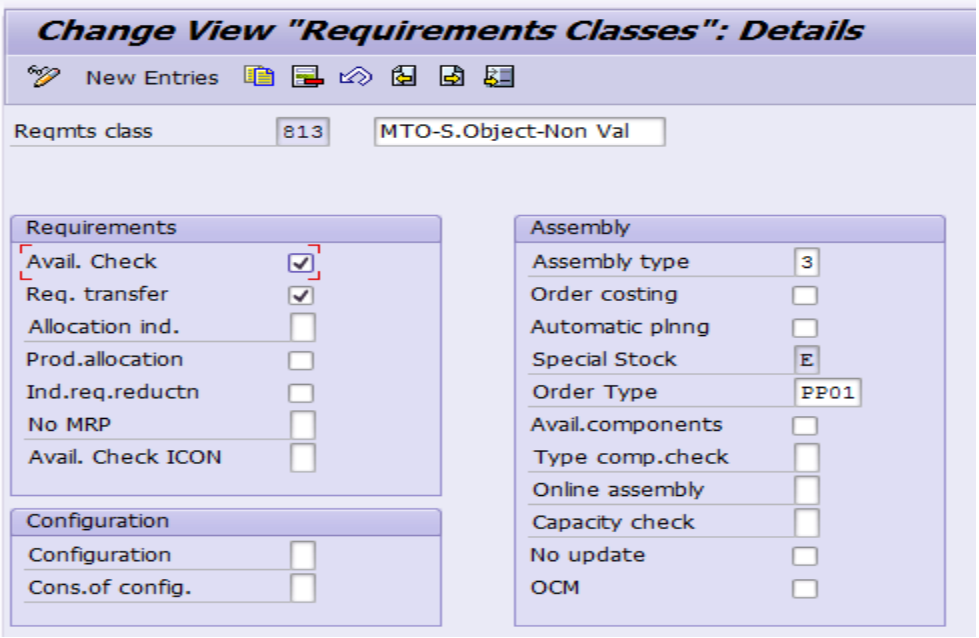


Job Costing

Product Cost by Sales order

3). Sales orders with Controlling and Non valuated inventory

Check Requirements Classes-OVZG

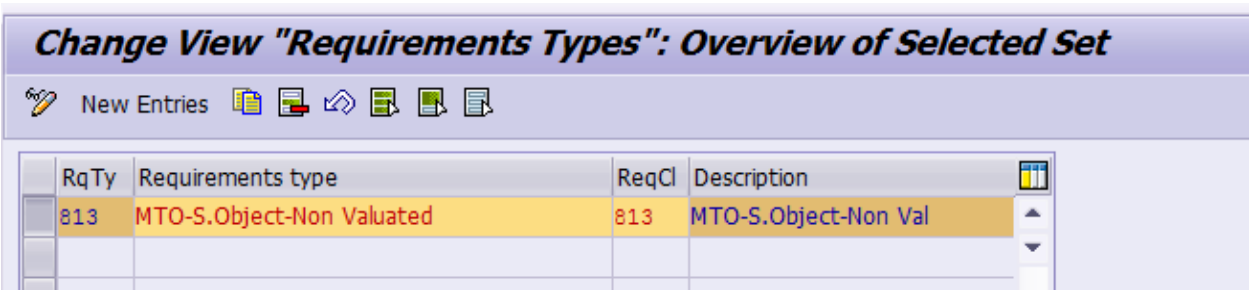


Here Requirement Class

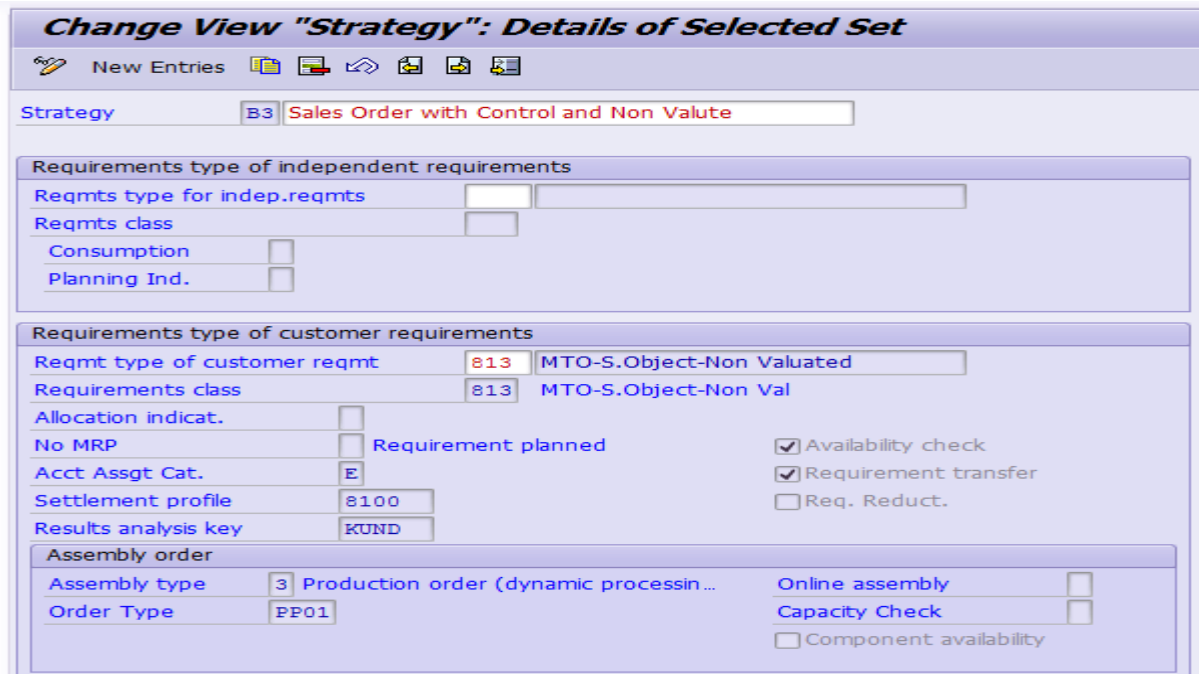
813- Sales Orders with Controlling and Non Vaulted inventory

Assembly type 3 for Production order will create automatically when sales order creation.

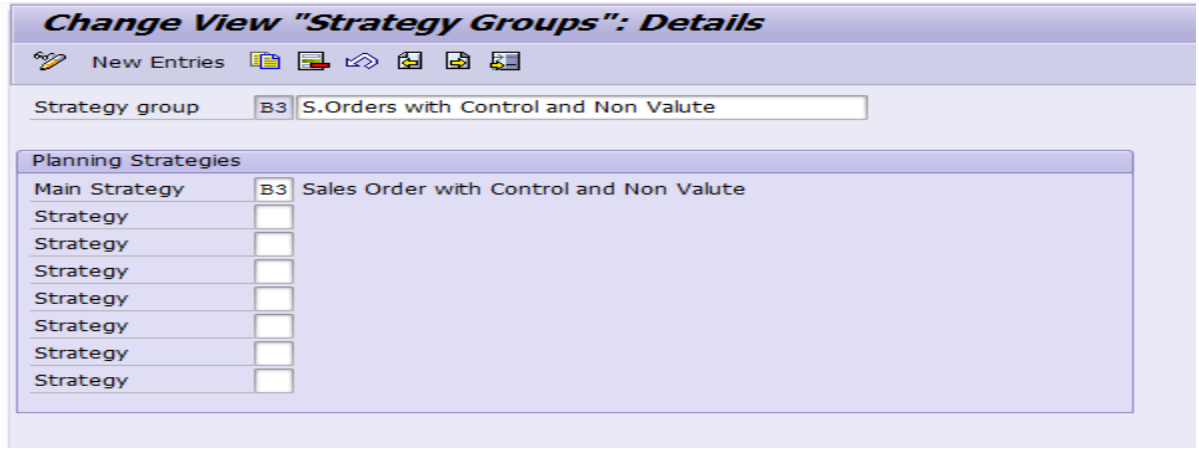
Check Requirements Types-OVZH



Check Planning Strategies-OPPS

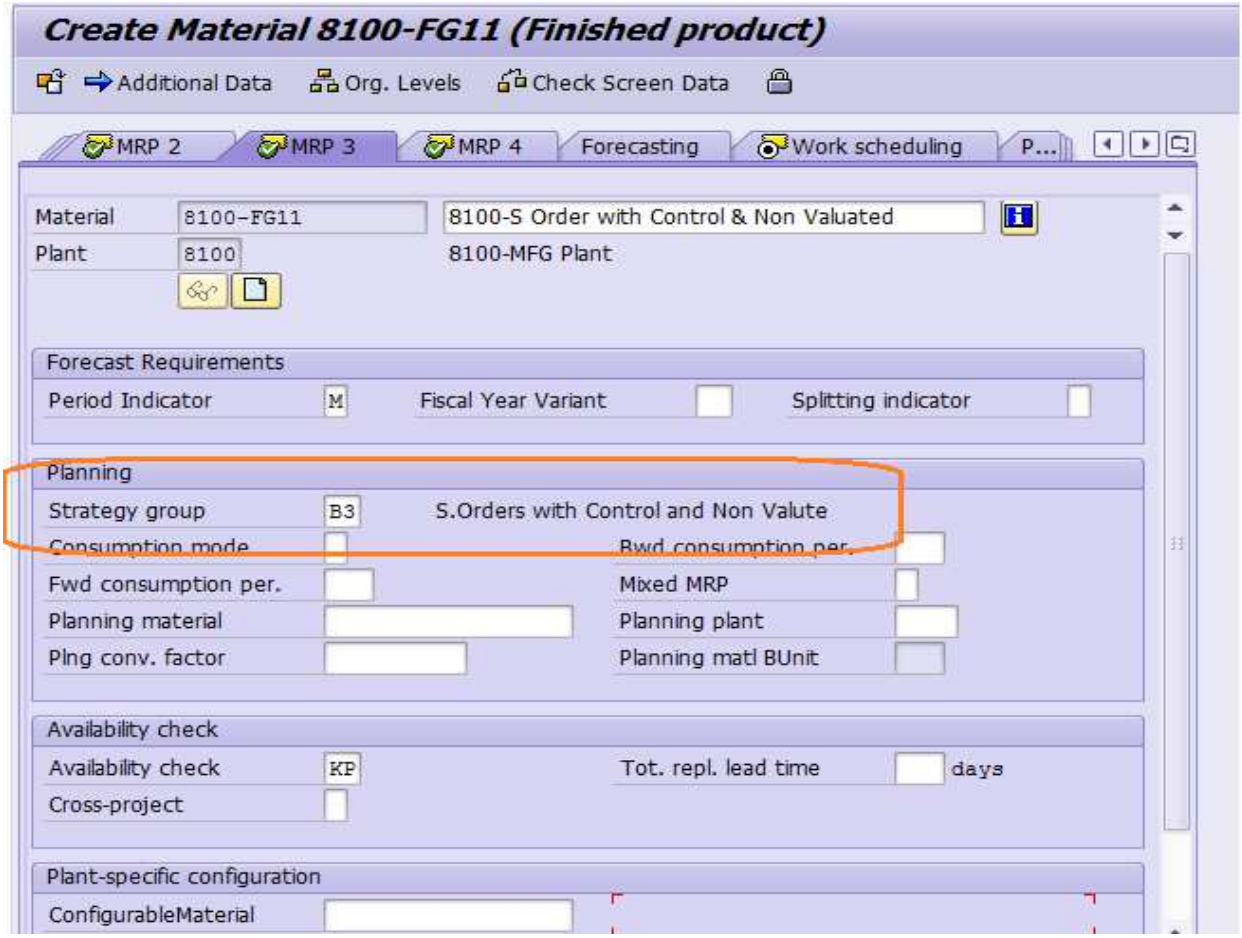


Check Strategy Groups-OPPT

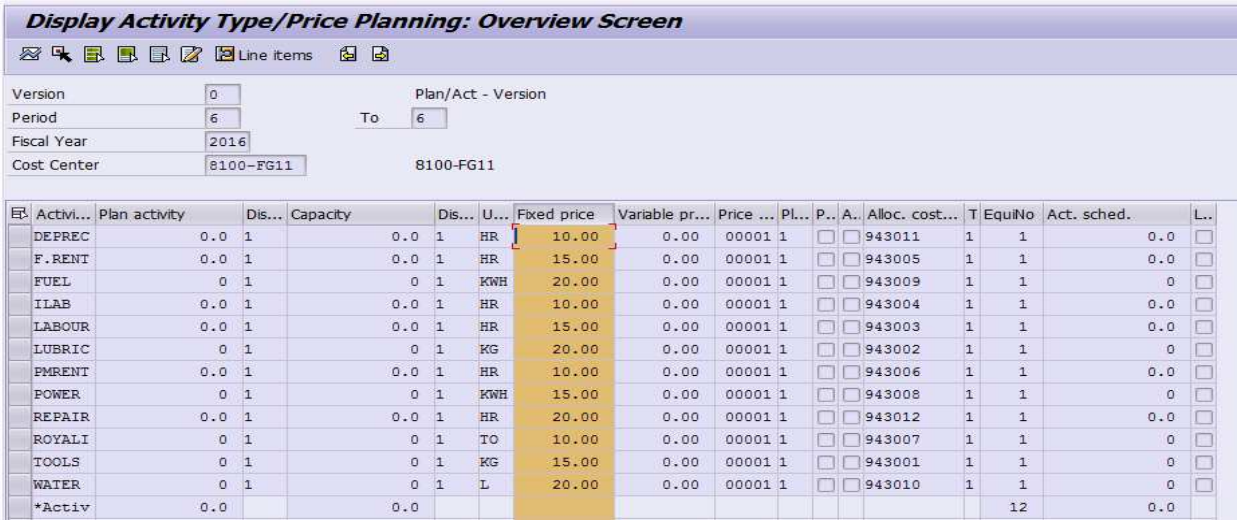


Testing

Material Master Creation

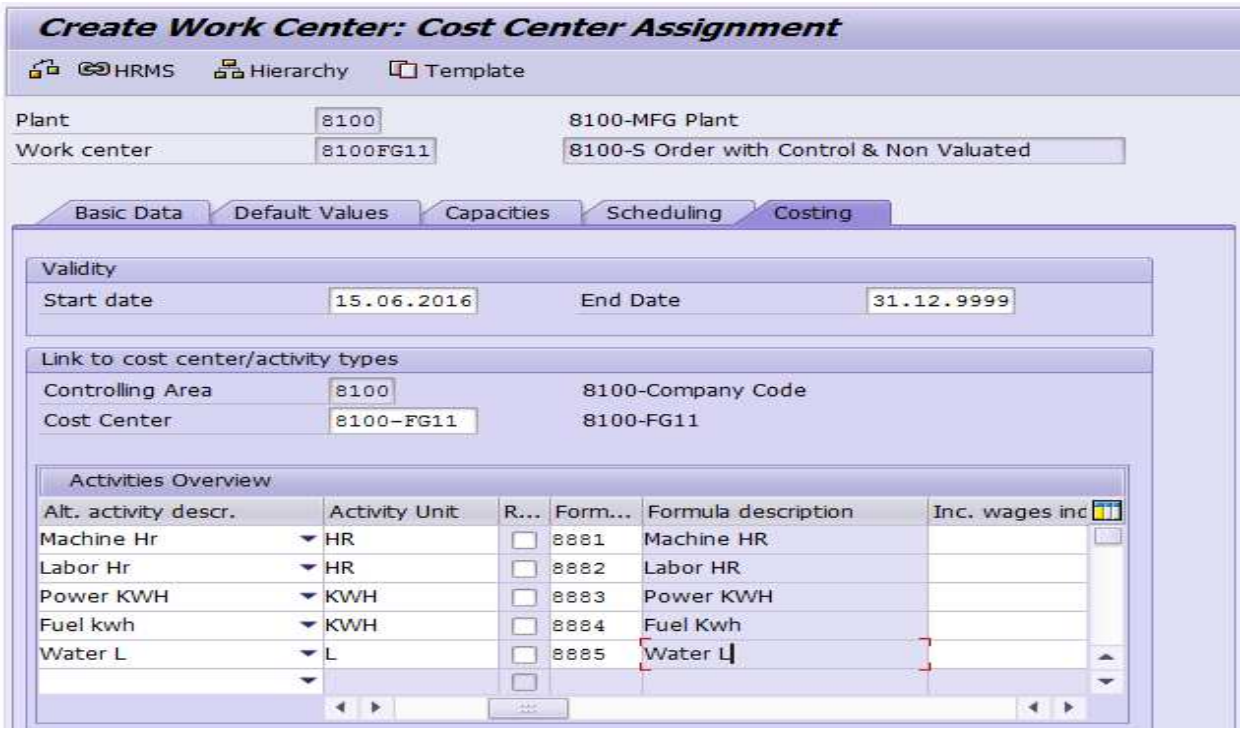


KP26

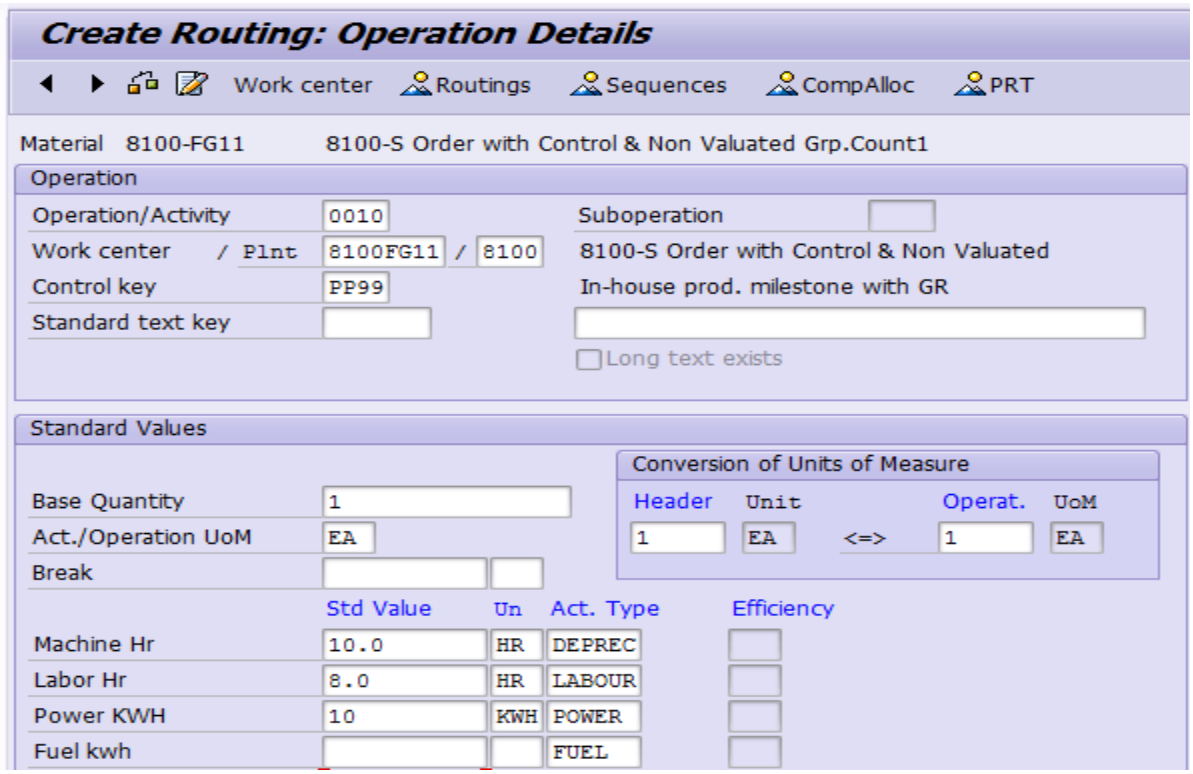


Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...	T	EquiNo	Act. sched.	L..
DEPREC	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943011	1	1	0.0	
F.RENT	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943005	1	1	0.0	
FUEL	0	1	0	1	KWH	20.00	0.00	00001	1			943009	1	1	0	
ILAB	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943004	1	1	0.0	
LABOUR	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943003	1	1	0.0	
LUBRIC	0	1	0	1	KG	20.00	0.00	00001	1			943002	1	1	0	
PMRENT	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943006	1	1	0.0	
POWER	0	1	0	1	KWH	15.00	0.00	00001	1			943008	1	1	0	
REPAIR	0.0	1	0.0	1	HR	20.00	0.00	00001	1			943012	1	1	0.0	
ROYALI	0	1	0	1	TO	10.00	0.00	00001	1			943007	1	1	0	
TOOLS	0	1	0	1	KG	15.00	0.00	00001	1			943001	1	1	0	
WATER	0	1	0	1	L	20.00	0.00	00001	1			943010	1	1	0	
*Activ	0.0		0.0											12	0.0	

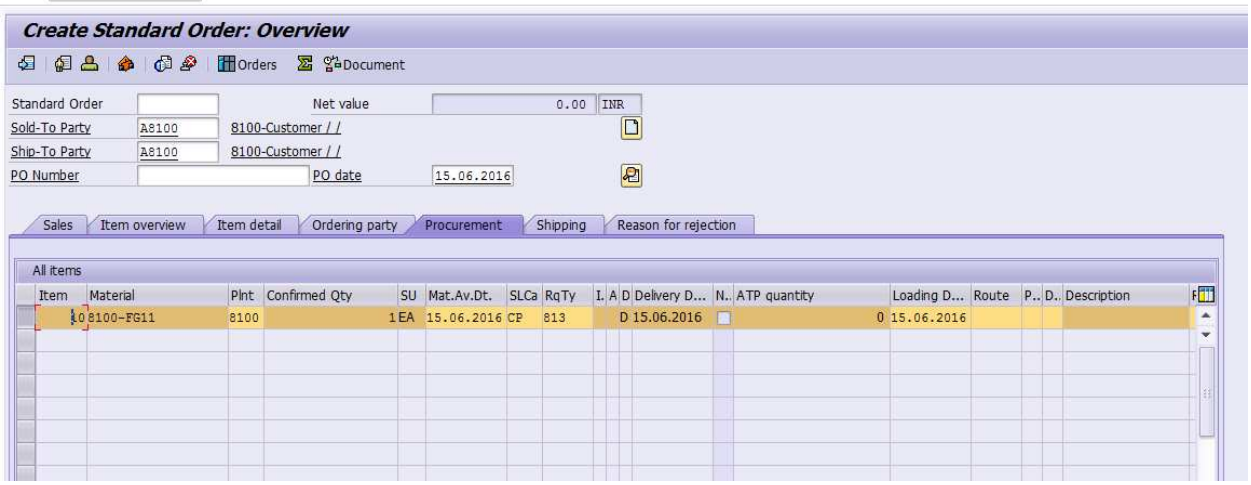
CR01


Create Work Center: Cost Center Assignment
HRMS
Hierarchy
Template
Plant 8100 8100-MFG Plant
Work center 8100FG11 8100-S Order with Control & Non Valuated
Basic Data
Default Values
Capacities
Scheduling
Costing
Validity
Start date 15.06.2016
End Date 31.12.9999
Link to cost center/activity types
Controlling Area 8100 8100-Company Code
Cost Center 8100-FG11 8100-FG11
Activities Overview
Alt. activity descr.
Activity Unit
R...
Form...
Formula description
Inc. wages inc
Machine Hr HR 8881 Machine HR
Labor Hr HR 8882 Labor HR
Power KWH KWH 8883 Power KWH
Fuel kwh KWH 8884 Fuel Kwh
Water L L 8885 Water L

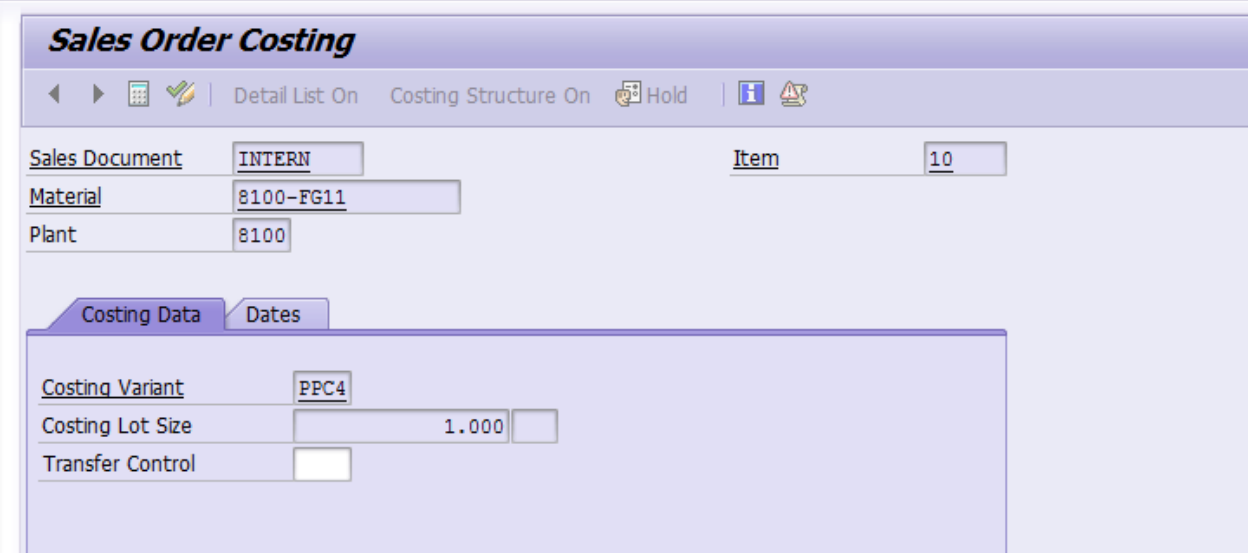
CA01

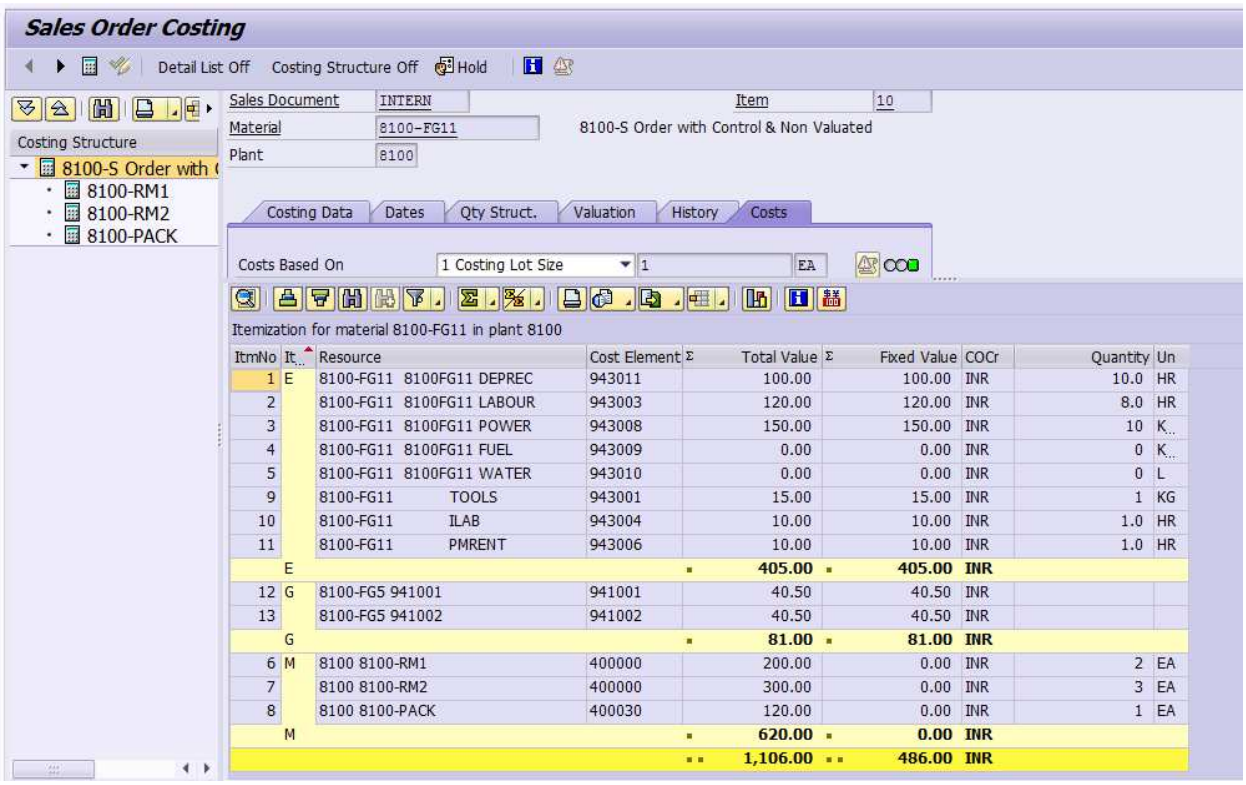

Create Routing: Operation Details
Work center
Routings
Sequences
CompAlloc
PRT
Material 8100-FG11 8100-S Order with Control & Non Valuated Grp.Count1
Operation
Operation/Activity 0010
Suboperation
Work center / Plnt 8100FG11 / 8100
8100-S Order with Control & Non Valuated
Control key PP99
In-house prod. milestone with GR
Standard text key
Long text exists
Standard Values
Conversion of Units of Measure
Base Quantity 1
Act./Operation UoM EA
Break
Header Unit Operat. UoM
1 EA <=> 1 EA
Std Value Un Act. Type Efficiency
Machine Hr 10.0 HR DEPREC
Labor Hr 8.0 HR LABOUR
Power KWH 10 KWH POWER
Fuel kwh FUEL

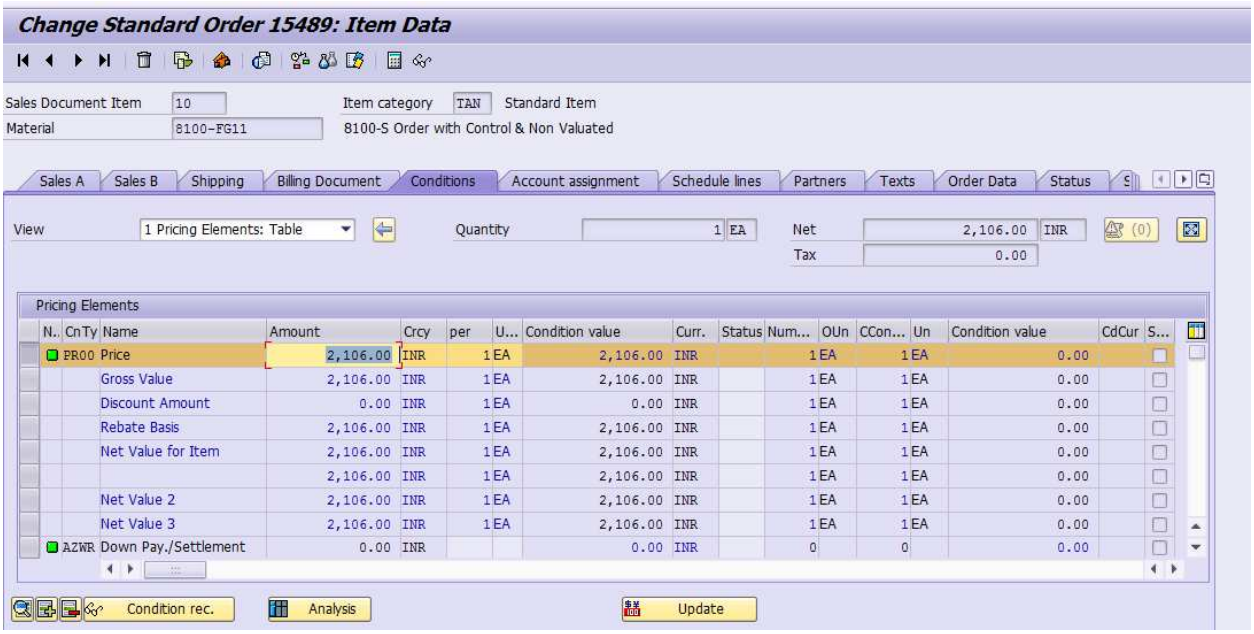
VA01-Sales Order Creation



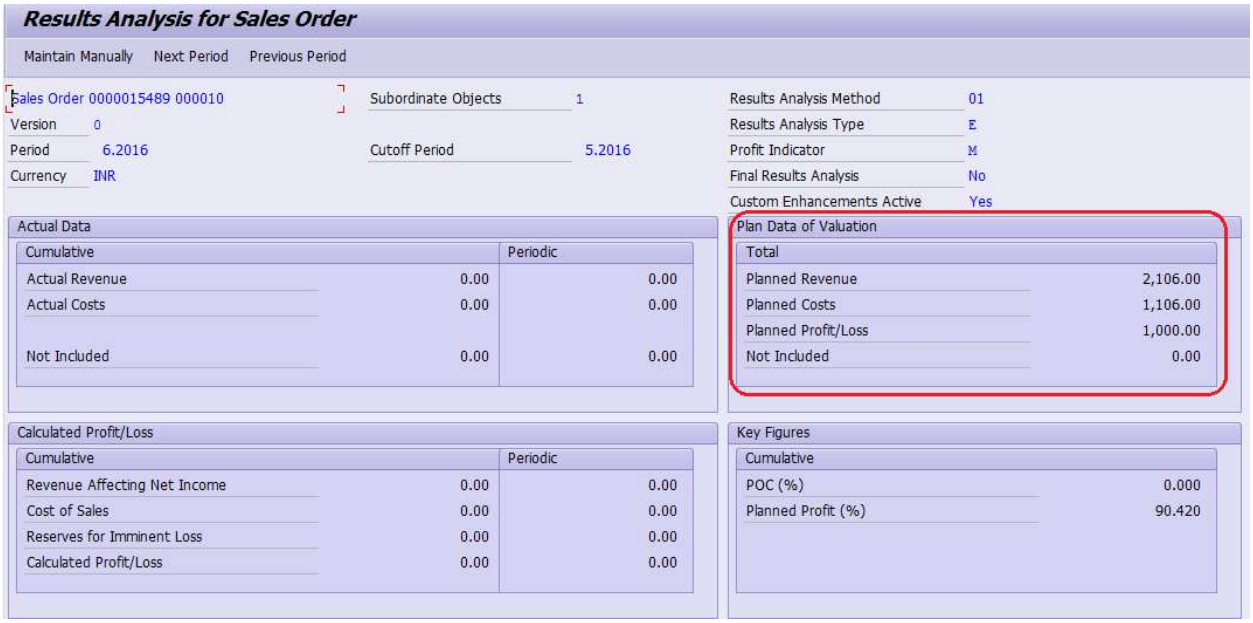
Sales Order Costing



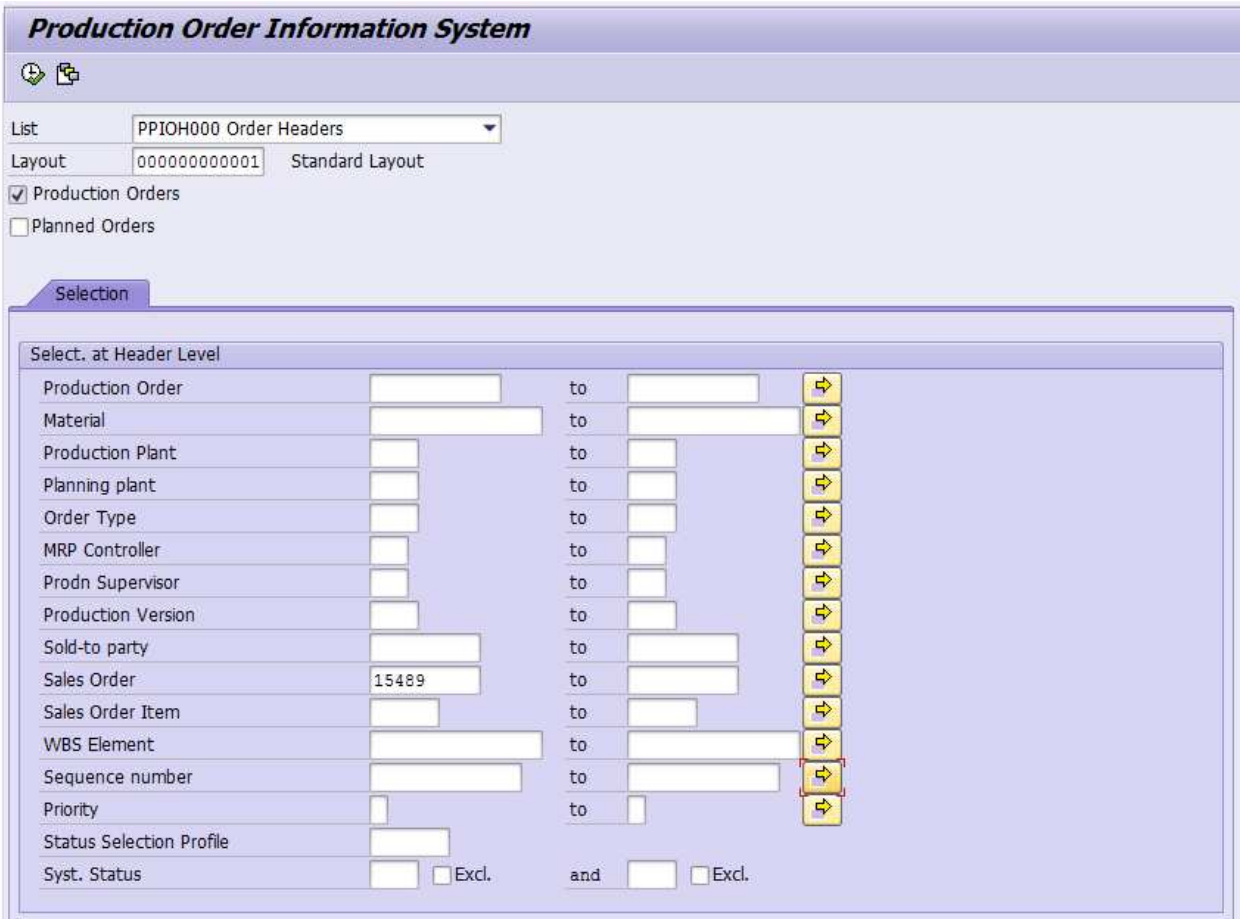

Sales Order Costing
Detail List Off
Costing Structure Off
Hold
Sales Document INTERN
Item 10
Material 8100-FG11
8100-S Order with Control & Non Valuated
Plant 8100
Costing Structure
8100-S Order with
8100-RM1
8100-RM2
8100-PACK
Costing Data
Dates
Qty Struct.
Valuation
History
Costs
Costs Based On
1 Costing Lot Size
1
EA
Itemization for material 8100-FG11 in plant 8100
ItmNo It... Resource Cost Element Total Value Fixed Value COCr Quantity Un
1 E 8100-FG11 8100FG11 DEPREC 943011 100.00 100.00 INR 10.0 HR
2 8100-FG11 8100FG11 LABOUR 943003 120.00 120.00 INR 8.0 HR
3 8100-FG11 8100FG11 POWER 943008 150.00 150.00 INR 10 K...
4 8100-FG11 8100FG11 FUEL 943009 0.00 0.00 INR 0 K...
5 8100-FG11 8100FG11 WATER 943010 0.00 0.00 INR 0 L
9 8100-FG11 TOOLS 943001 15.00 15.00 INR 1 KG
10 8100-FG11 ILAB 943004 10.00 10.00 INR 1.0 HR
11 8100-FG11 PMRENT 943006 10.00 10.00 INR 1.0 HR
E 405.00 405.00 INR
12 G 8100-FG5 941001 941001 40.50 40.50 INR
13 8100-FG5 941002 941002 40.50 40.50 INR
G 81.00 81.00 INR
6 M 8100 8100-RM1 400000 200.00 0.00 INR 2 EA
7 8100 8100-RM2 400000 300.00 0.00 INR 3 EA
8 8100 8100-PACK 400030 120.00 0.00 INR 1 EA
M 620.00 0.00 INR
1,106.00 486.00 INR

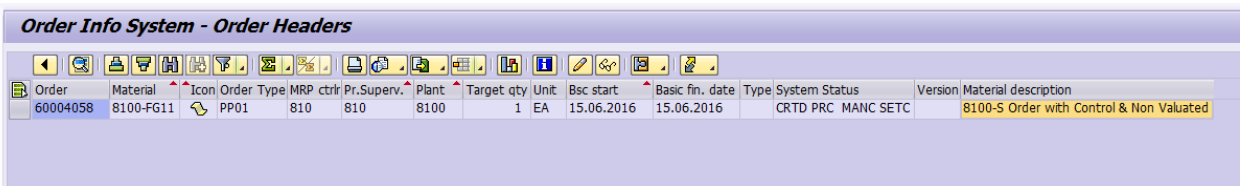

Change Standard Order 15489: Item Data
Sales Document Item 10
Item category TAN Standard Item
Material 8100-FG11
8100-S Order with Control & Non Valuated
Sales A
Sales B
Shipping
Billing Document
Conditions
Account assignment
Schedule lines
Partners
Texts
Order Data
Status
View
1 Pricing Elements: Table
Quantity 1 EA
Net 2,106.00 INR
Tax 0.00
Pricing Elements
N.. CnTy Name Amount Crcy per U... Condition value Curr. Status Num... OUn CCon... Un Condition value CdCur S...
PR00 Price 2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
Gross Value 2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
Discount Amount 0.00 INR 1 EA 0.00 INR 1 EA 1 EA 0.00
Rebate Basis 2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
Net Value for Item 2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
Net Value 2 2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
Net Value 3 2,106.00 INR 1 EA 2,106.00 INR 1 EA 1 EA 0.00
AZWR Down Pay./Settlement 0.00 INR 0.00 INR 0 0 0.00
Condition rec.
Analysis
Update

Now Run KKA3 for Plant Data Valuation

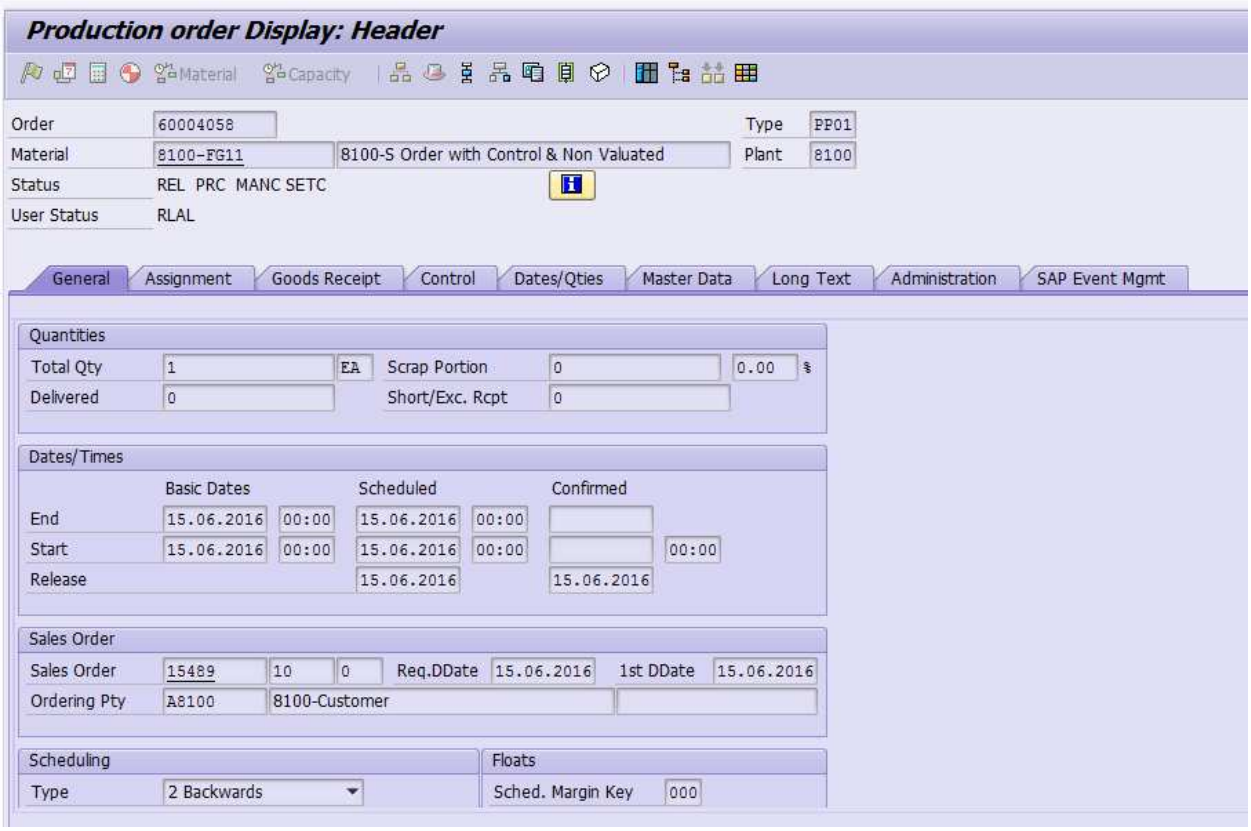


COOIS-

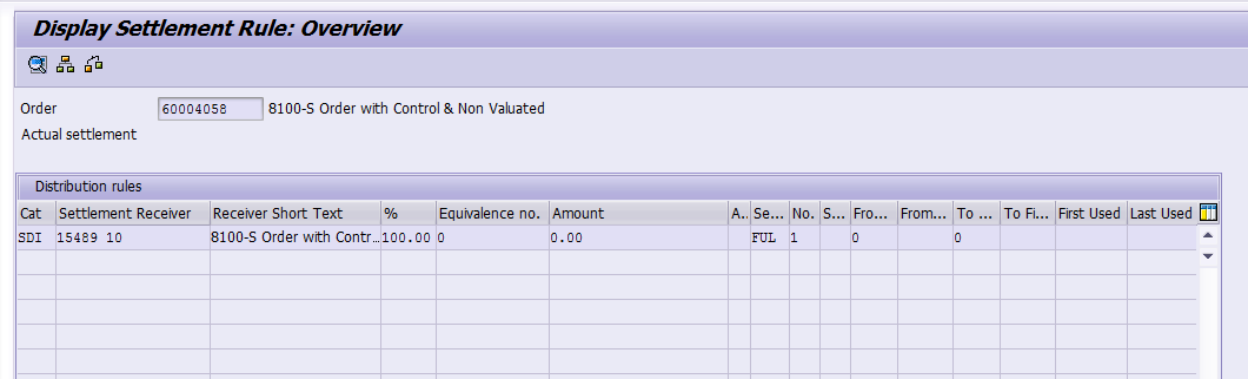




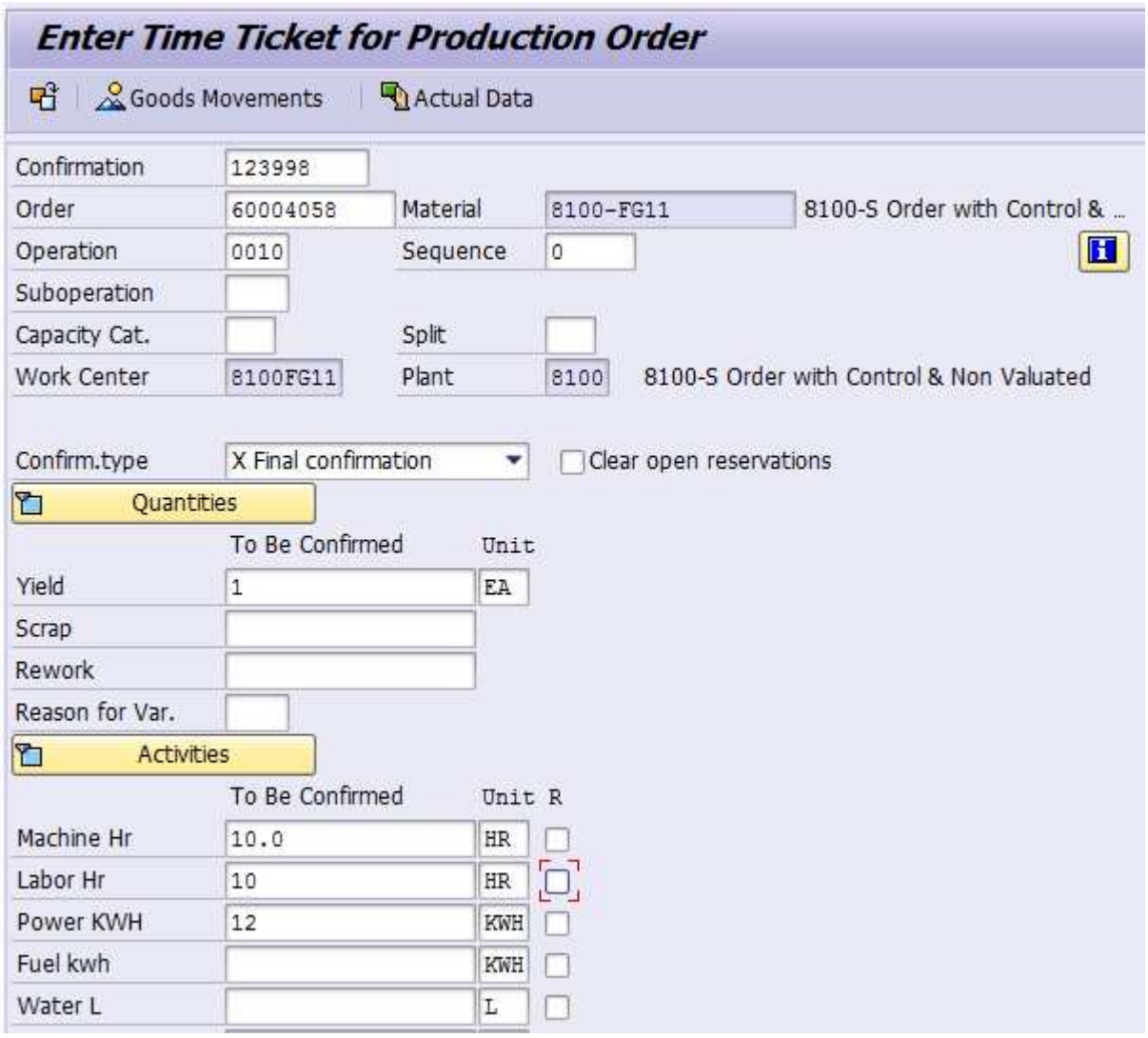
CO03-Production Order

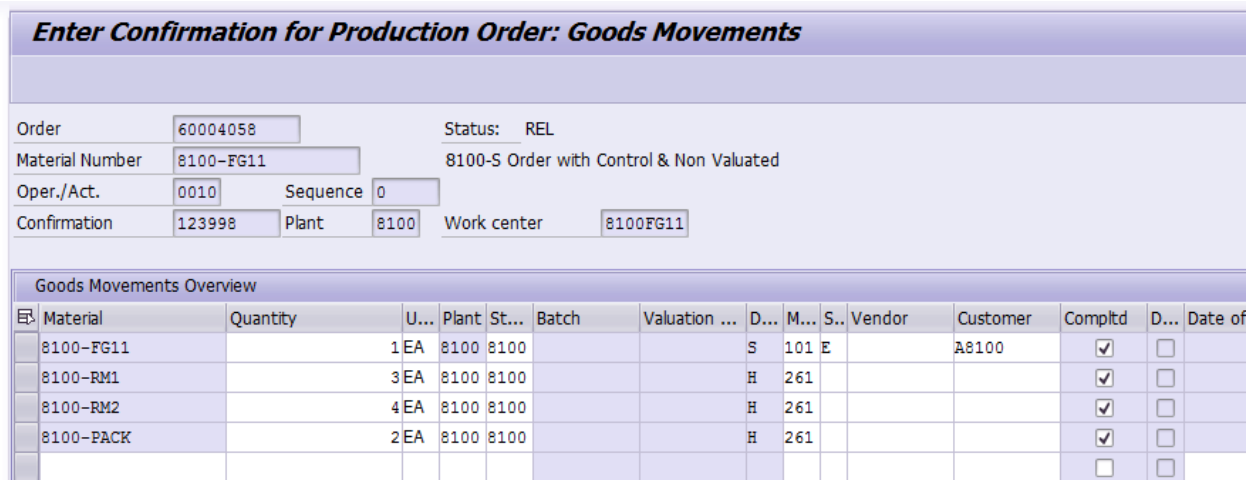


We can see in settlement rule receiver category is Sales Order because this is Non vaulted sales order controlling scenario.



CO11N-Production Order Confirmation





Cost Trend

Order 60004058 8100-FG11
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG11 8100-S Order with Control & Non Valuated

Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

Transaction	Origin	Origin (Text)	Σ Total plan costs	Σ Total actual costs	Σ Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	0.00	300.00	300.00		INR
	8100/8100-RM2	8100-RM2	0.00	400.00	400.00		INR
	8100/8100-PACK	8100-PACK	0.00	240.00	240.00		INR
Goods Issues			**0.00**	**940.00**	**940.00**		**INR**
Confirmations	8100-FG11/TO...	8100-FG11 / Tools	15.00	0.00	15.00-	100.00-	INR
	8100-FG11/LAB...	8100-FG11 / Direct Labour	120.00	150.00	30.00	25.00	INR
	8100-FG11/ILAB	8100-FG11 / Indirect Labour	10.00	0.00	10.00-	100.00-	INR
	8100-FG11/PM...	8100-FG11 / P&M Rent	10.00	0.00	10.00-	100.00-	INR
	8100-FG11/PO...	8100-FG11 / Power	150.00	180.00	30.00	20.00	INR
	8100-FG11/DE...	8100-FG11 / Depreciation	100.00	100.00	0.00		INR
Confirmations			**405.00**	**430.00**	**25.00**		**INR**
Overhead	8100-FG5	8100-FG5	40.50	0.00	40.50-	100.00-	INR
	8100-FG5	8100-FG5	40.50	0.00	40.50-	100.00-	INR
Overhead			**81.00**	**0.00**	**81.00-**		**INR**
			486.00	**1,370.00**	**884.00**		**INR**

Here GRN done but not accounting doc, due to Non vaulted scenario.

MMBE

Stock Overview: Basic List

Selection

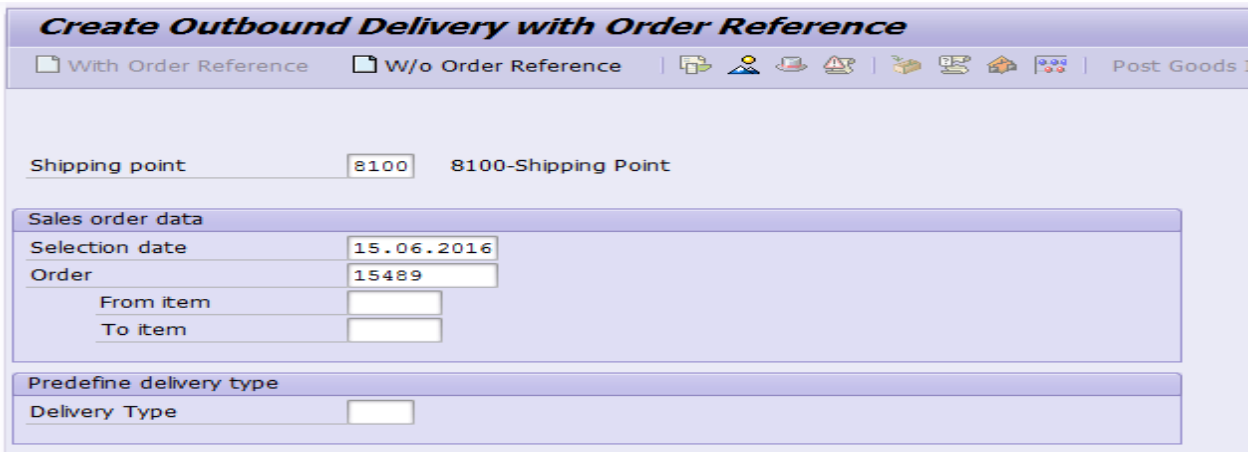
Material	8100-FG11	8100-S Order with Control & Non Valuated
Material Type	FERT	Finished product
Unit of Measure	EA	Base Unit of Measure EA

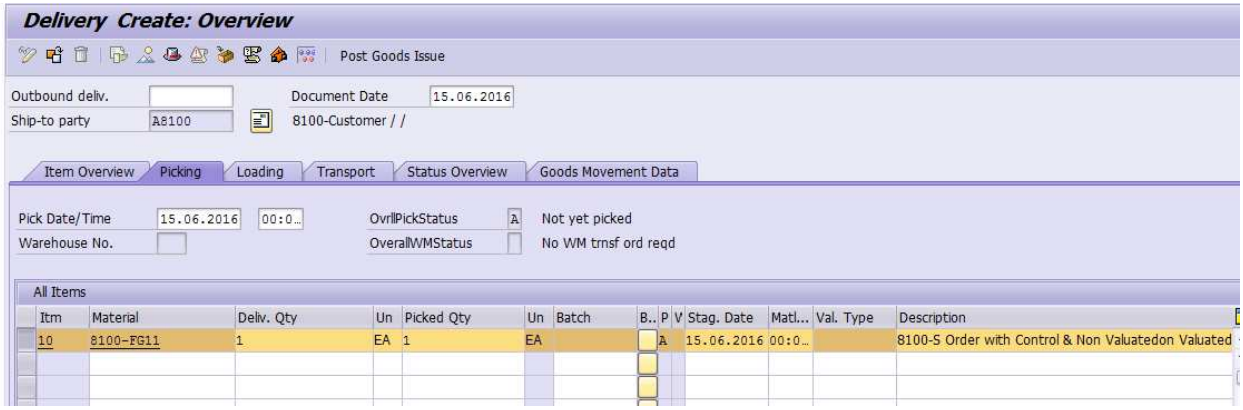
Stock Overview

Detailed Display

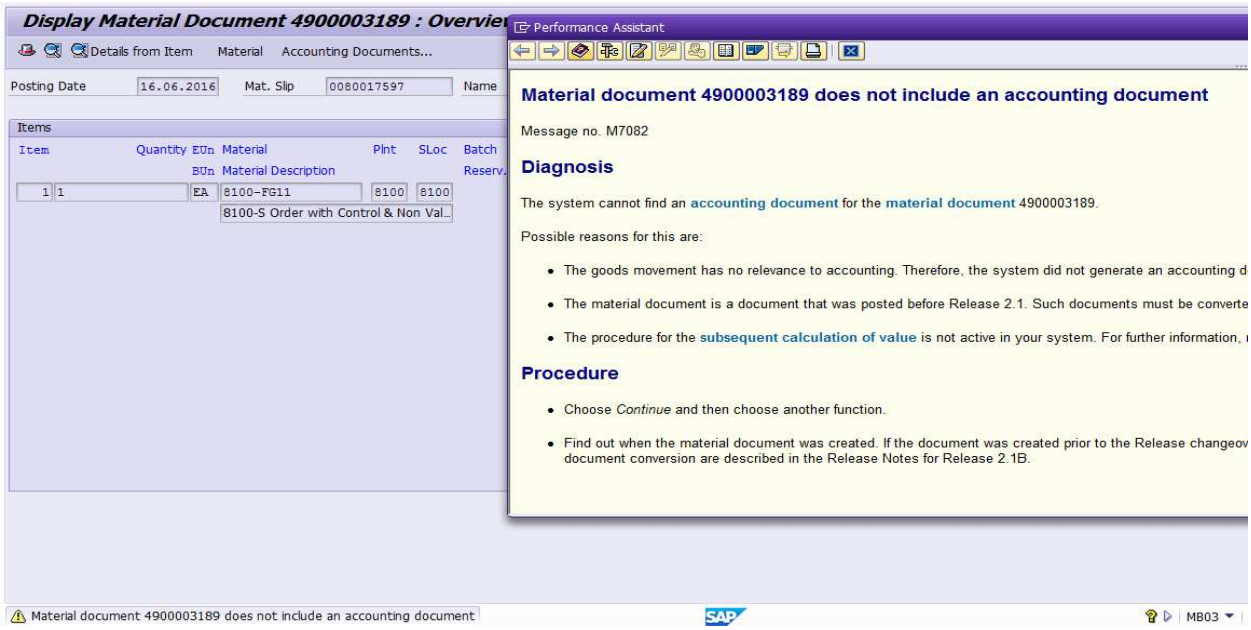
Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation
Full				
8100 8100-Company Code				
8100 8100-MFG Plant				
8100 8100-S.Location				
Sales Order Stock	1.000			

VL01N-Delivery Creation

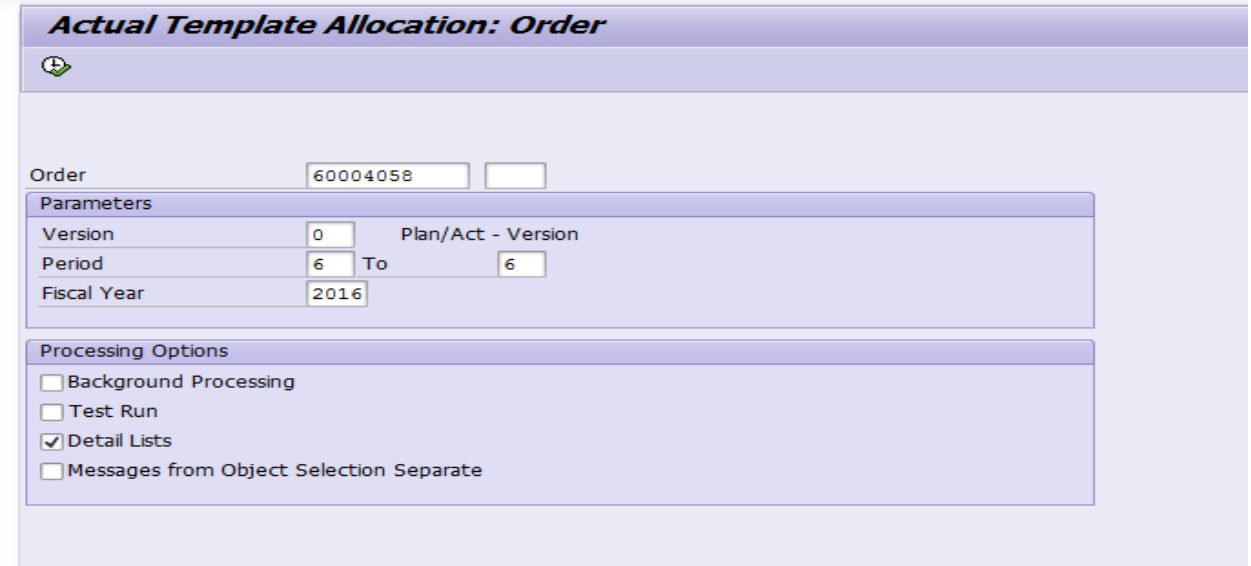


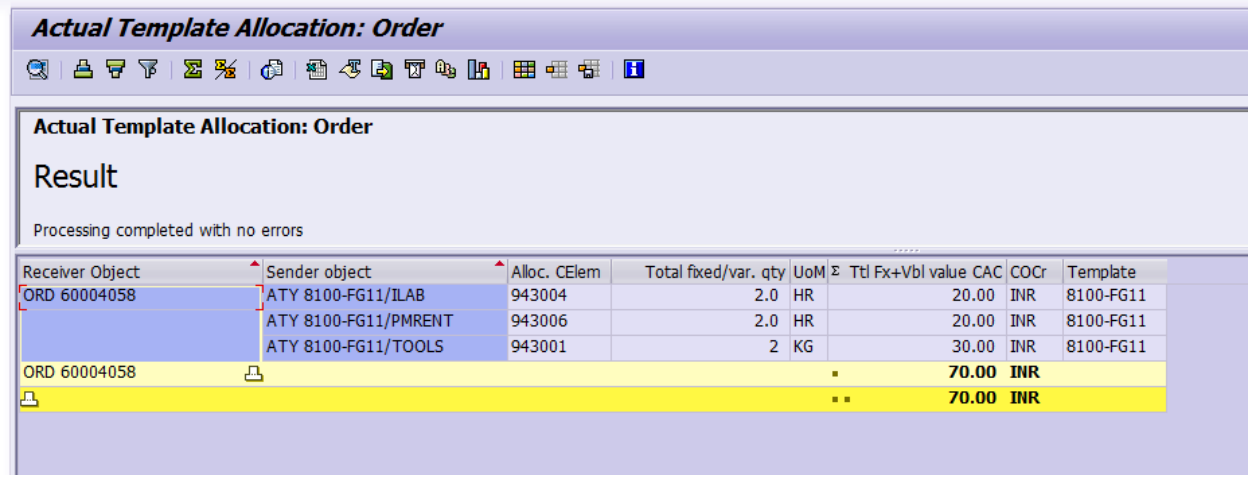


MB03-Dlivery time there is no accounting doc.

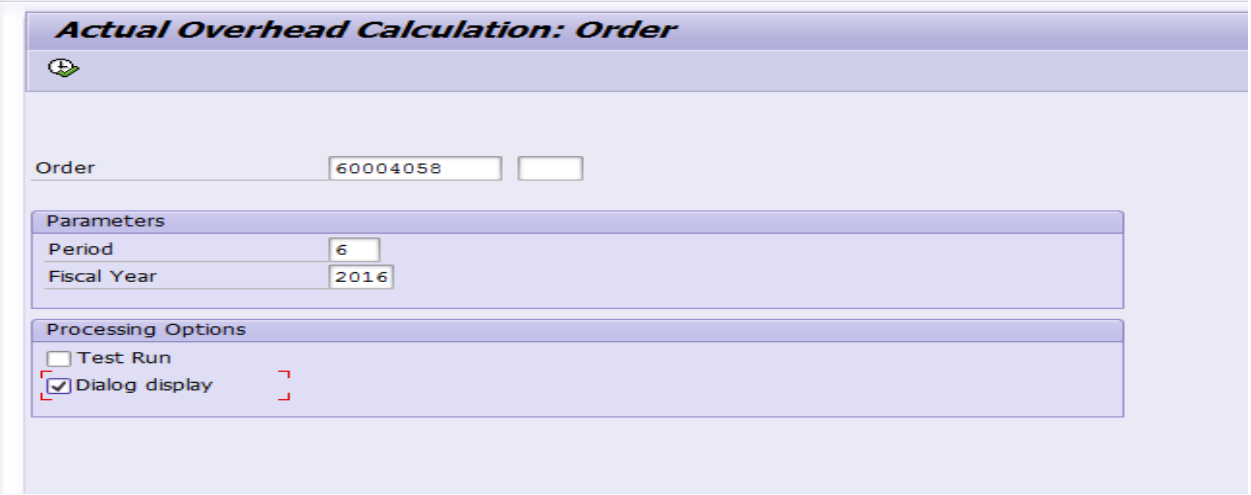


Template Allocation -CPTA - Individual Processing





Overhead -KGI2 - Individual Processing



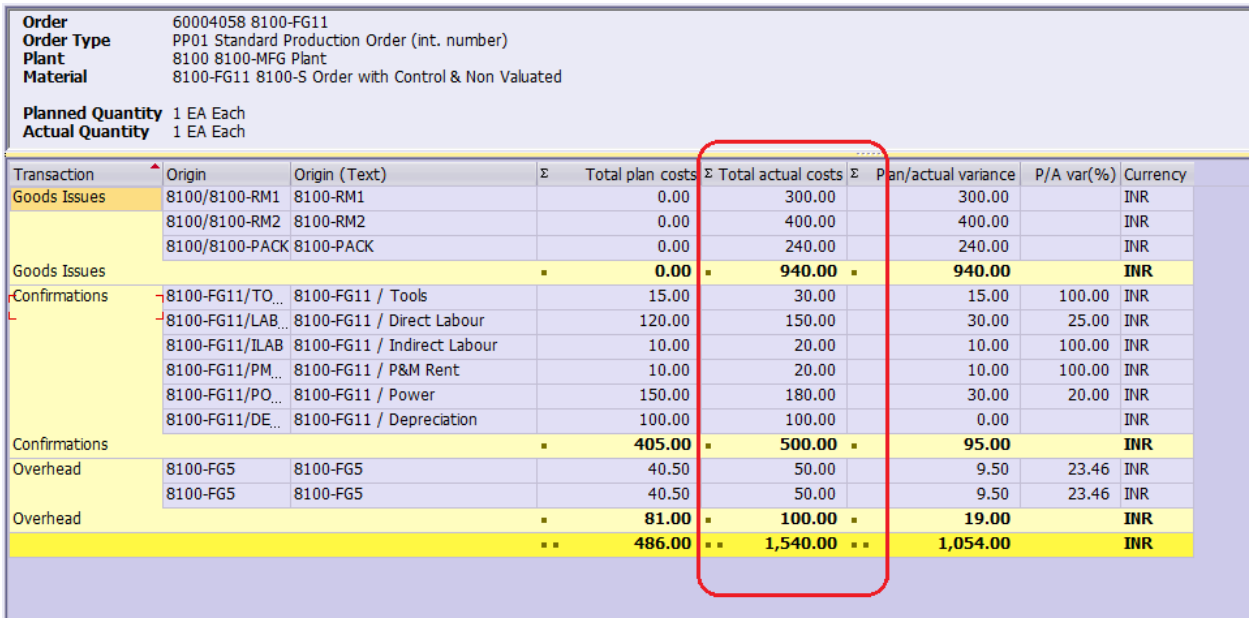
Display ORD 60004058 6/2016: Item - Conditions

Item 1
View 1 Pricing Elements: Table
Quantity 0.000
Net 600.00 INR
Tax 0.00

Pricing Elements

N.	CnTy	Name	Amount	Crcy	per	U...	Condition value	Curr.	Status	Num...	OUn	CCon...	Un	Condition value	CdCur	S...
	81-2	Converstion Costs					500.00	INR		0		0		0.00		
	81-3	Quality Control Cost	10.000	%			50.00	INR		0		0		0.00		
	81-4	Research & Dev Cost	10.000	%			50.00	INR		0		0		0.00		
		GM	0.00	INR	1		600.00	INR		0		0		0.00		

CO03

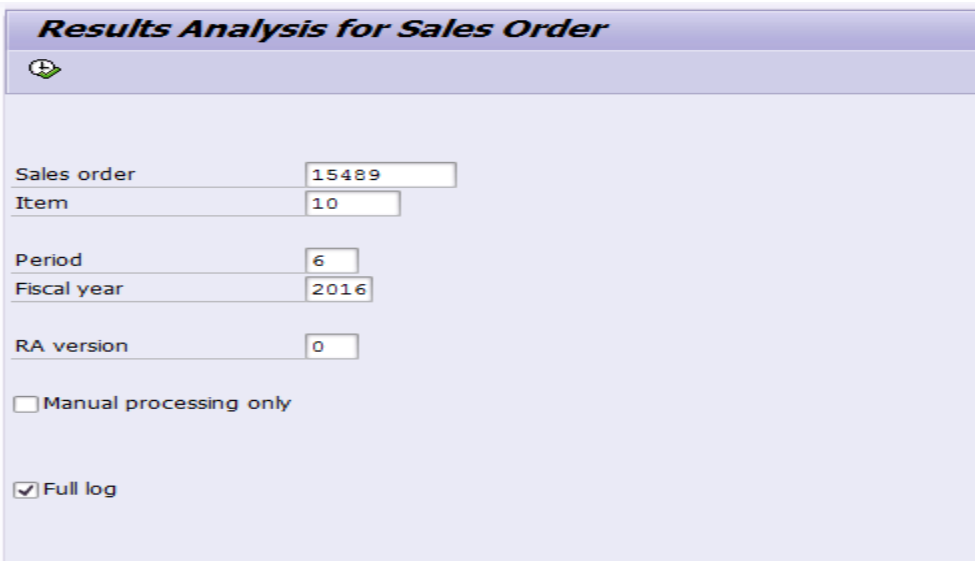


Order 60004058 8100-FG11
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG11 8100-S Order with Control & Non Valuated

Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		0.00		300.00		300.00		INR
	8100/8100-RM2	8100-RM2		0.00		400.00		400.00		INR
	8100/8100-PACK	8100-PACK		0.00		240.00		240.00		INR
Goods Issues			▪	**0.00**	▪	**940.00**	▪	**940.00**		**INR**
Confirmations	8100-FG11/TO...	8100-FG11 / Tools		15.00		30.00		15.00	100.00	INR
	8100-FG11/LAB...	8100-FG11 / Direct Labour		120.00		150.00		30.00	25.00	INR
	8100-FG11/ILAB	8100-FG11 / Indirect Labour		10.00		20.00		10.00	100.00	INR
	8100-FG11/PM...	8100-FG11 / P&M Rent		10.00		20.00		10.00	100.00	INR
	8100-FG11/PO...	8100-FG11 / Power		150.00		180.00		30.00	20.00	INR
	8100-FG11/DE...	8100-FG11 / Depreciation		100.00		100.00		0.00		INR
Confirmations			▪	**405.00**	▪	**500.00**	▪	**95.00**		**INR**
Overhead	8100-FG5	8100-FG5		40.50		50.00		9.50	23.46	INR
	8100-FG5	8100-FG5		40.50		50.00		9.50	23.46	INR
Overhead			▪	**81.00**	▪	**100.00**	▪	**19.00**		**INR**
			▪▪	**486.00**	▪▪	**1,540.00**	▪▪	**1,054.00**		**INR**

Now Run-KKA3



Results Analysis for Sales Order

Sales order 15489
Item 10

Period 6
Fiscal year 2016

RA version 0

☐ Manual processing only

☑ Full log

Sales Order 0000015489 000010 | Subordinate Objects 1
Version 0
Period 6.2016 | Cutoff Period 5.2016
Currency INR

Actual Data

Cumulative		Periodic
Actual Revenue	0.00	0.00
Actual Costs	1,540.00	1,540.00
Not Included	0.00	0.00

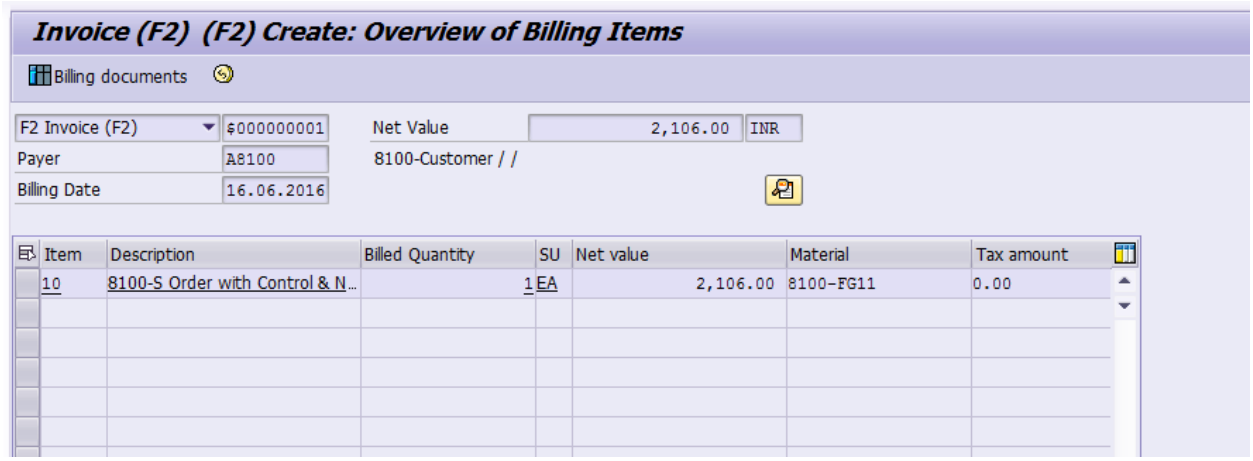
Calculated Profit/Loss

Cumulative		Periodic
Revenue Affecting Net Income	0.00	0.00
Cost of Sales	0.00	0.00
Reserves for Imminent Loss	0.00	0.00
Calculated Profit/Loss	0.00	0.00

Inventories

Cumulative		Periodic
Revenue in Excess of Billings	0.00	0.00
Work in Process	1,540.00	1,540.00

VF01-Billing



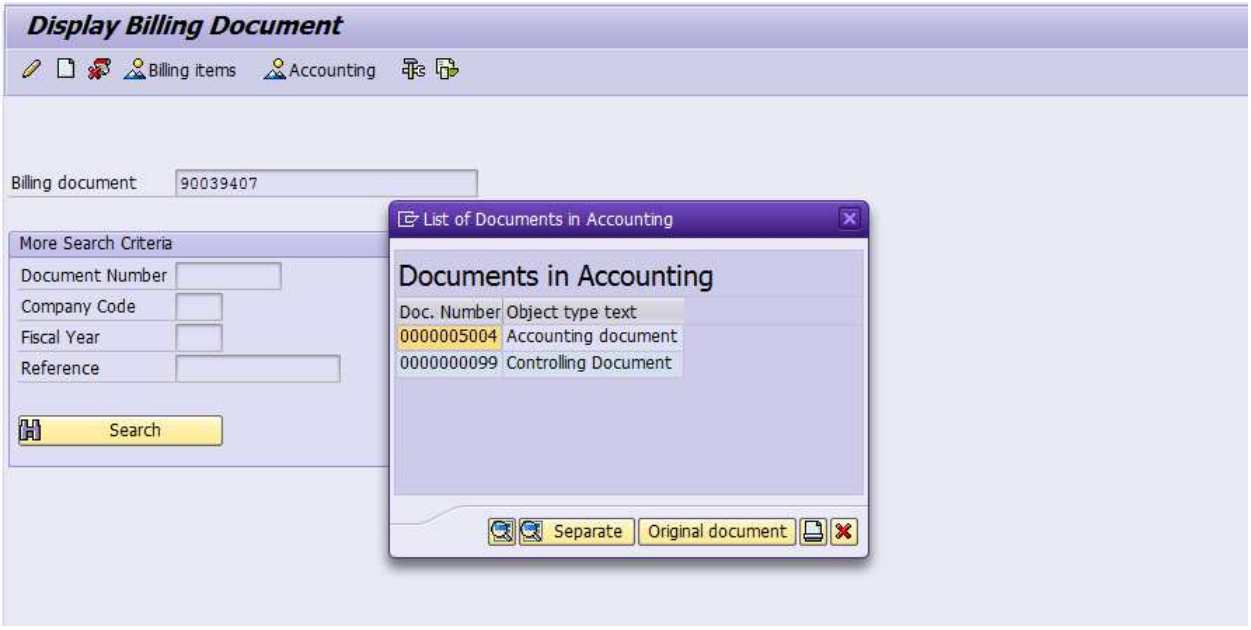
Invoice (F2) (F2) Create: Overview of Billing Items

Billing documents

F2 Invoice (F2) $000000001 | Net Value 2,106.00 INR
Payer A8100 | 8100-Customer / /
Billing Date 16.06.2016

Item	Description	Billed Quantity	SU	Net value	Material	Tax amount
10	8100-S Order with Control & N...	1	EA	2,106.00	8100-FG11	0.00

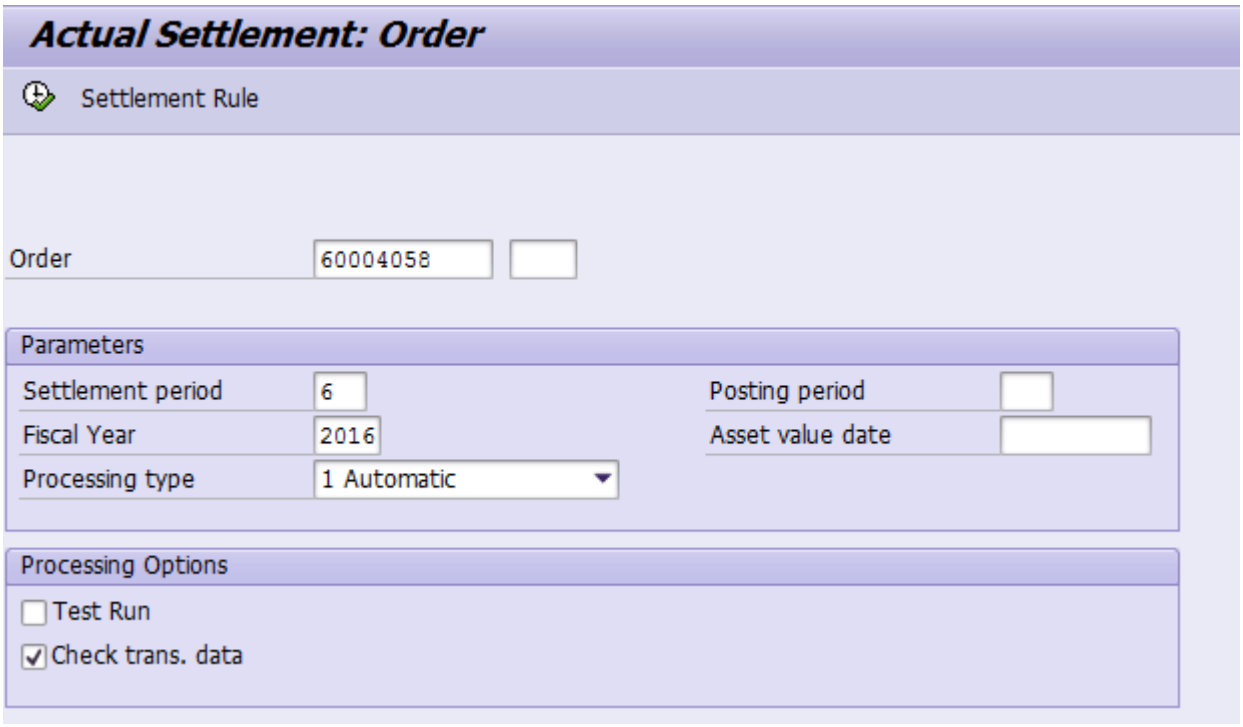
Here also there is No COPA document generated.



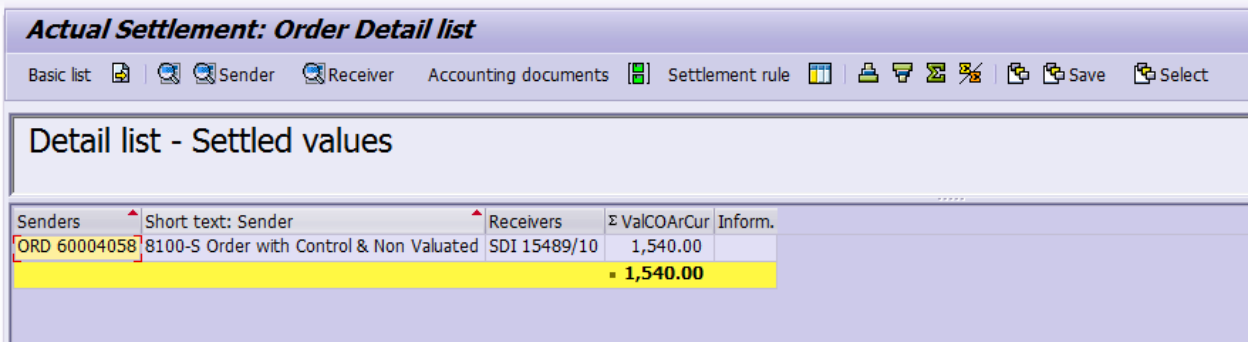
Here No need of Variance calculation run because 60004058 Order is assigned to sales order 15489(None vaulted scenario).

Directly we can run Settlement

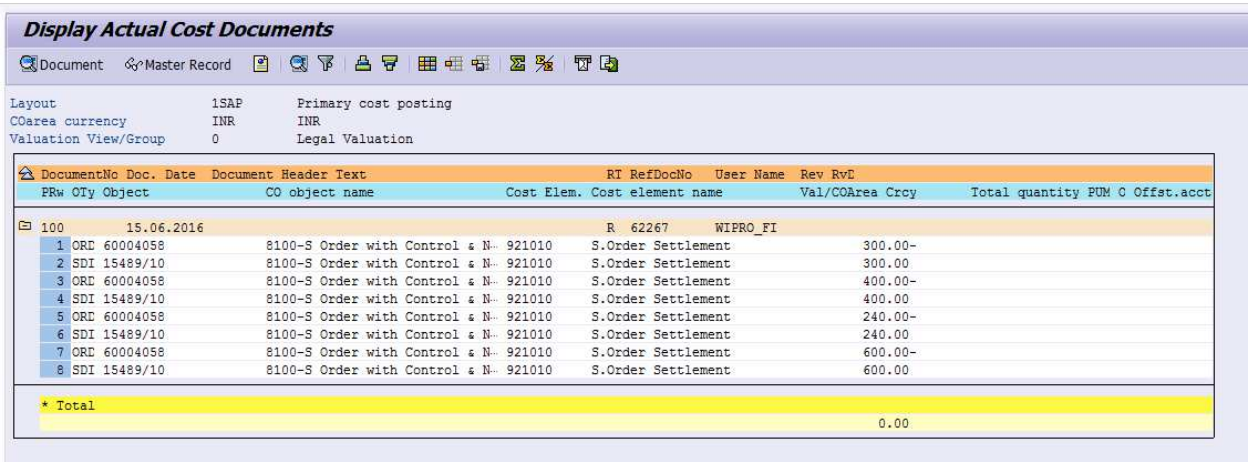
Settlement- KO88 - Individual Processing



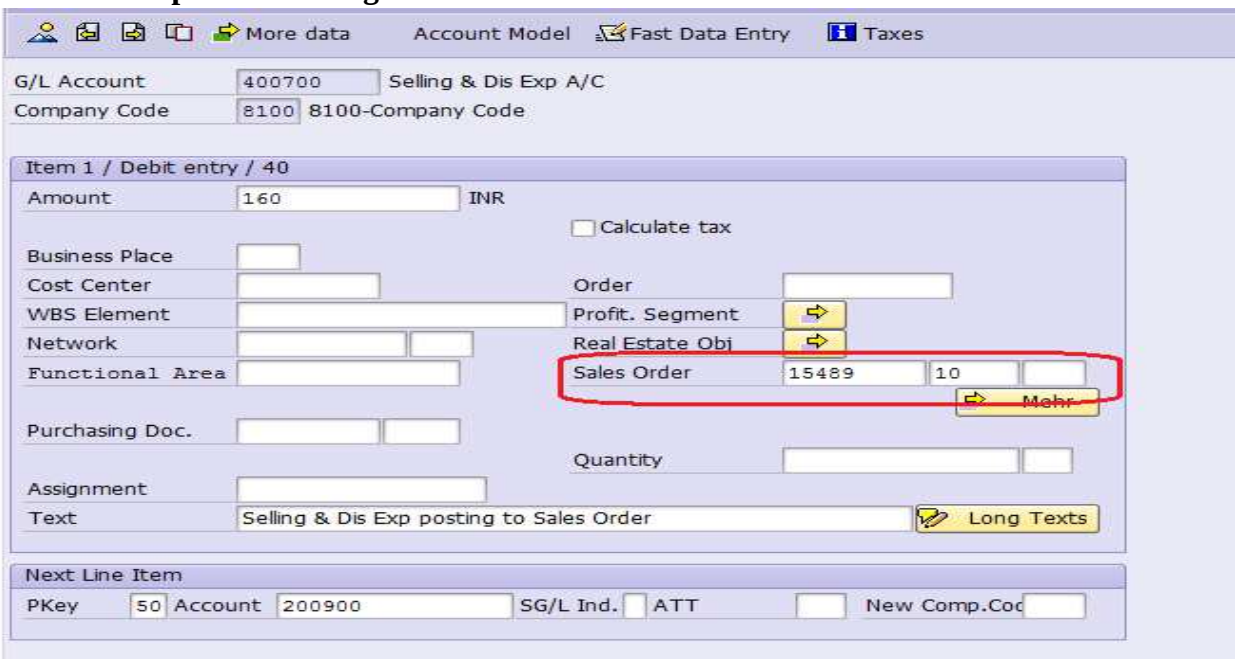
Here receiver is the Sales Order. That means at the time production order settlement all expenses (Material Cost Conversion Cost +OH) will transfer to Sales Order.

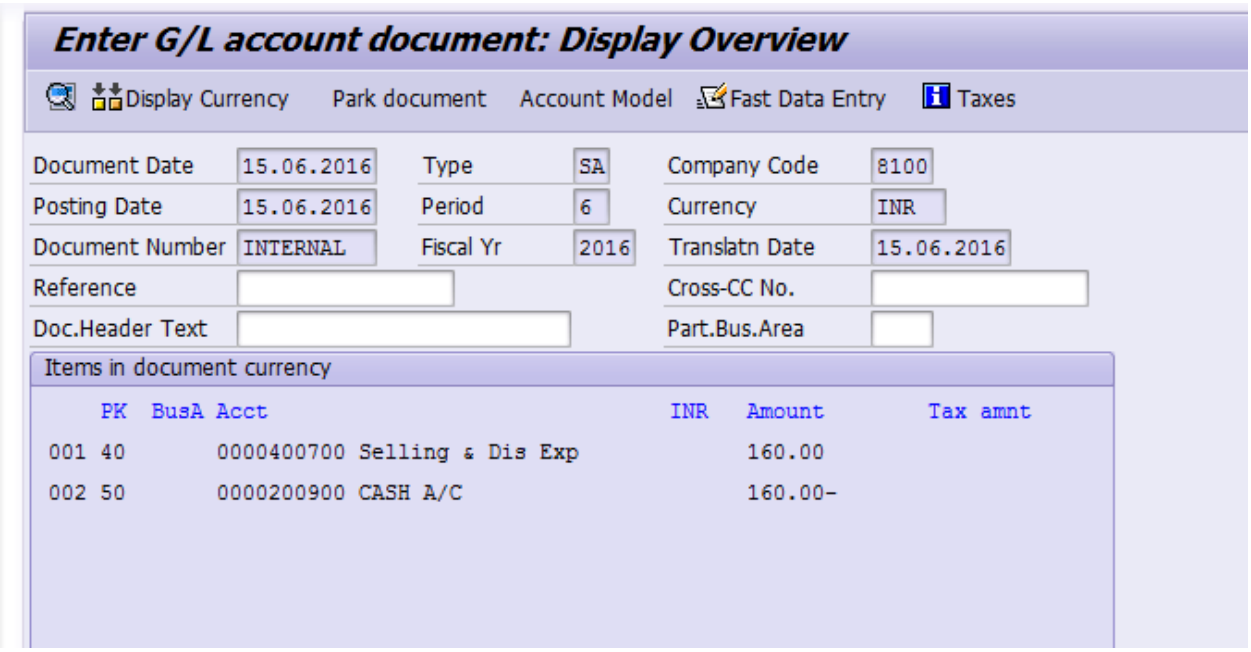


Here No FI document, only CO document will generate

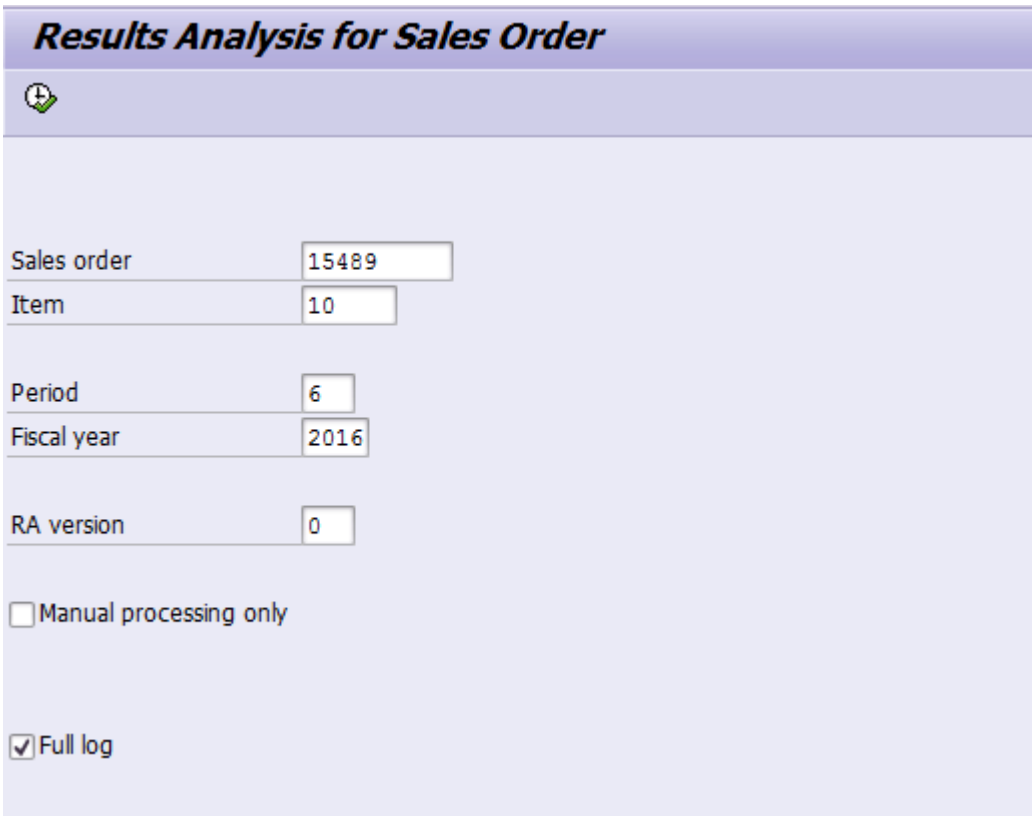


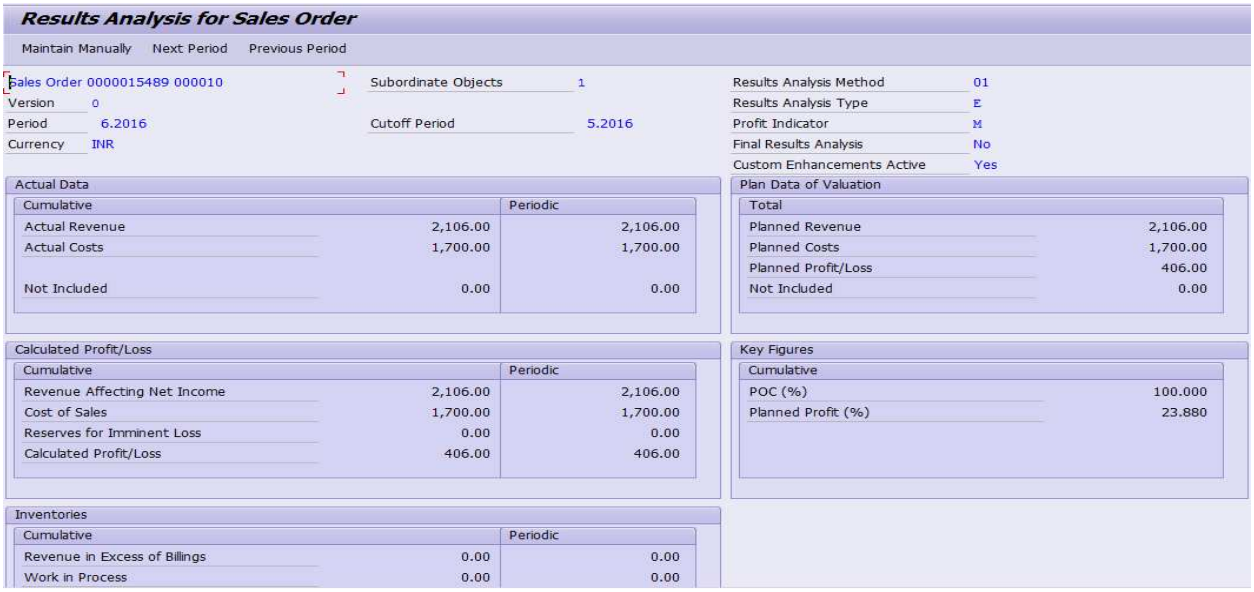
Manual FI expenses booking to sales order -F-02




Enter G/L account document: Display Overview
Display Currency
Park document
Account Model
Fast Data Entry
Taxes
Document Date 15.06.2016
Type SA
Company Code 8100
Posting Date 15.06.2016
Period 6
Currency INR
Document Number INTERNAL
Fiscal Yr 2016
Translatn Date 15.06.2016
Reference
Cross-CC No.
Doc.Header Text
Part.Bus.Area
Items in document currency
PK BusA Acct INR Amount Tax amnt
001 40 0000400700 Selling & Dis Exp 160.00
002 50 0000200900 CASH A/C 160.00-

KKA3-


Results Analysis for Sales Order
Sales order 15489
Item 10
Period 6
Fiscal year 2016
RA version 0
Manual processing only
Full log



Results Analysis for Sales Order

Maintain Manually | Next Period | Previous Period

Sales Order	0000015489 000010	Subordinate Objects	1	Results Analysis Method	01
Version	0			Results Analysis Type	E
Period	6.2016	Cutoff Period	5.2016	Profit Indicator	M
Currency	INR			Final Results Analysis	No
				Custom Enhancements Active	Yes

Actual Data

Cumulative		Periodic
Actual Revenue	2,106.00	2,106.00
Actual Costs	1,700.00	1,700.00
Not Included	0.00	0.00

Plan Data of Valuation

Total	
Planned Revenue	2,106.00
Planned Costs	1,700.00
Planned Profit/Loss	406.00
Not Included	0.00

Calculated Profit/Loss

Cumulative		Periodic
Revenue Affecting Net Income	2,106.00	2,106.00
Cost of Sales	1,700.00	1,700.00
Reserves for Imminent Loss	0.00	0.00
Calculated Profit/Loss	406.00	406.00

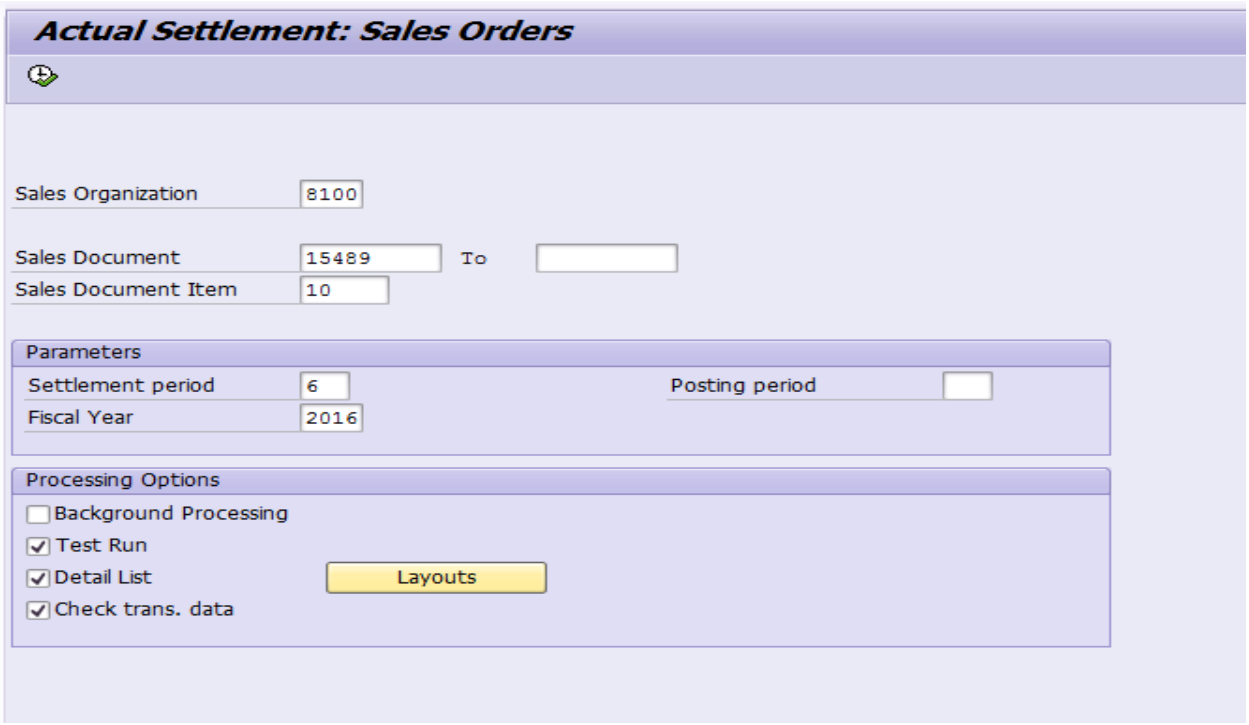
Key Figures

Cumulative	
POC (%)	100.000
Planned Profit (%)	23.880

Inventories

Cumulative		Periodic
Revenue in Excess of Billings	0.00	0.00
Work in Process	0.00	0.00

VA88



Actual Settlement: Sales Orders

Sales Organization: 8100

Sales Document: 15489 To

Sales Document Item: 10

Parameters

Settlement period: 6 Posting period:

Fiscal Year: 2016

Processing Options

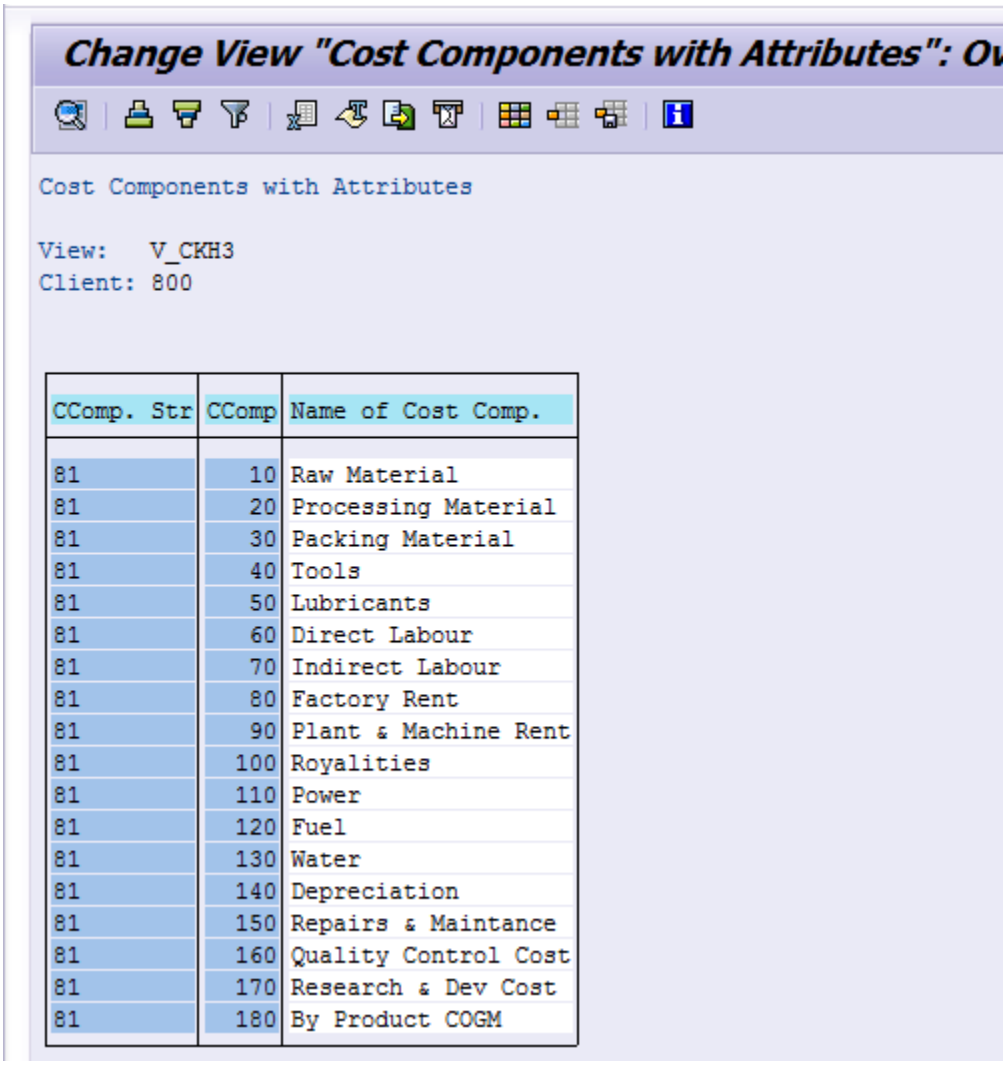
- [ ] Background Processing
- [x] Test Run
- [x] Detail List — Layouts
- [x] Check trans. data

Actual Settlement: Sales Orders Detail list
Basic list
Sender
Receiver
Accounting documents
Settlement rule
Detail list - Settled values
Senders
Short text: Sender
Receivers
ΣValCOArCur
Inform.
SDI 15489/10
8100-S Order with Control & Non Valuated
PSG 0000000052
406.00-
406.00-
List of Documents in Accounting
Documents in Accounting
Doc. Number
Object type text
0000000021
Accounting document
0000000102
Controlling Document
0000000019
Profitab. Analysis
Separate
Original document

Joint Production

1). By Product Costing

In OKTZ, We have to maintain separate Component for By Product COGM



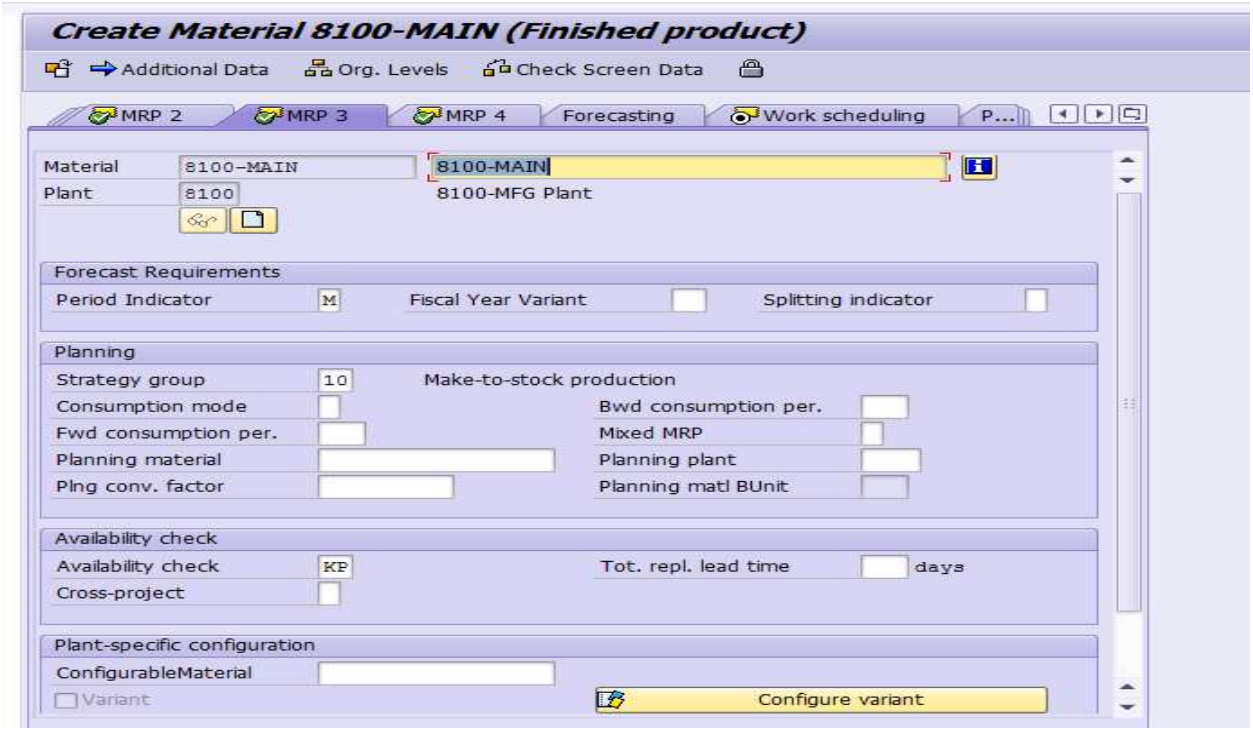
Change View "Cost Components with Attributes": Ov

Cost Components with Attributes

View: V_CKH3
Client: 800

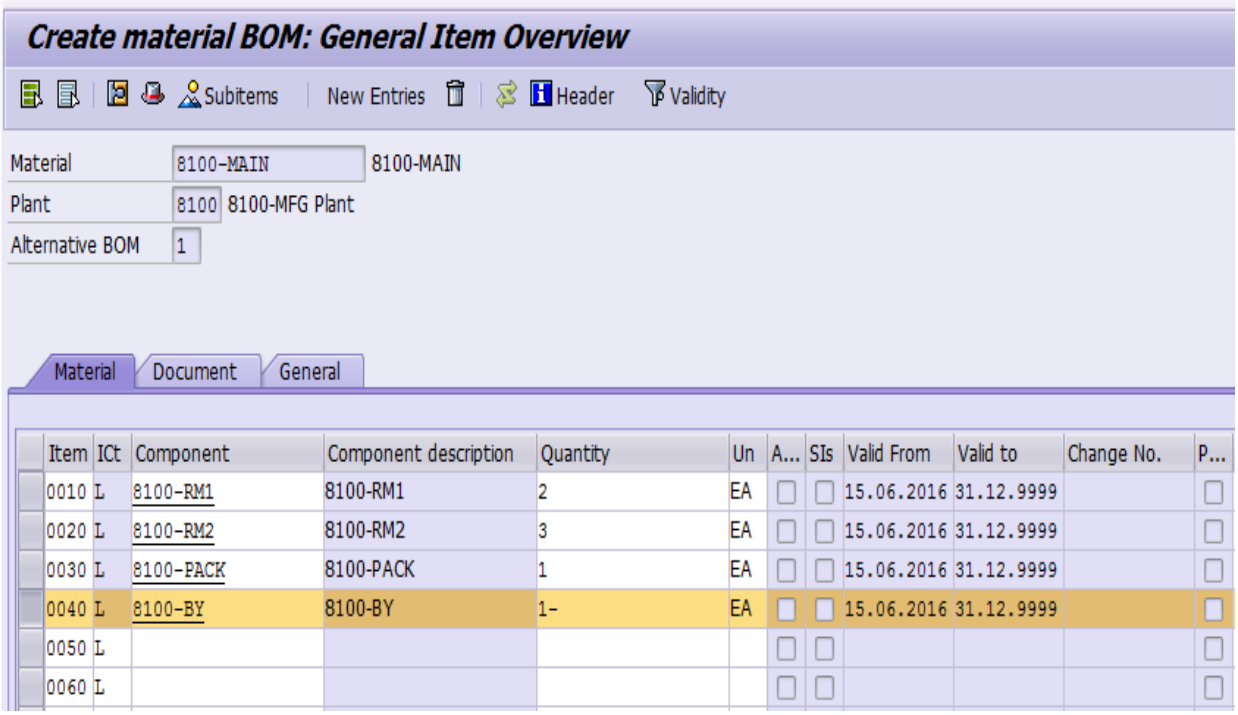
CComp. Str	CComp	Name of Cost Comp.
81	10	Raw Material
81	20	Processing Material
81	30	Packing Material
81	40	Tools
81	50	Lubricants
81	60	Direct Labour
81	70	Indirect Labour
81	80	Factory Rent
81	90	Plant & Machine Rent
81	100	Royalities
81	110	Power
81	120	Fuel
81	130	Water
81	140	Depreciation
81	150	Repairs & Maintance
81	160	Quality Control Cost
81	170	Research & Dev Cost
81	180	By Product COGM

Testing-MM01

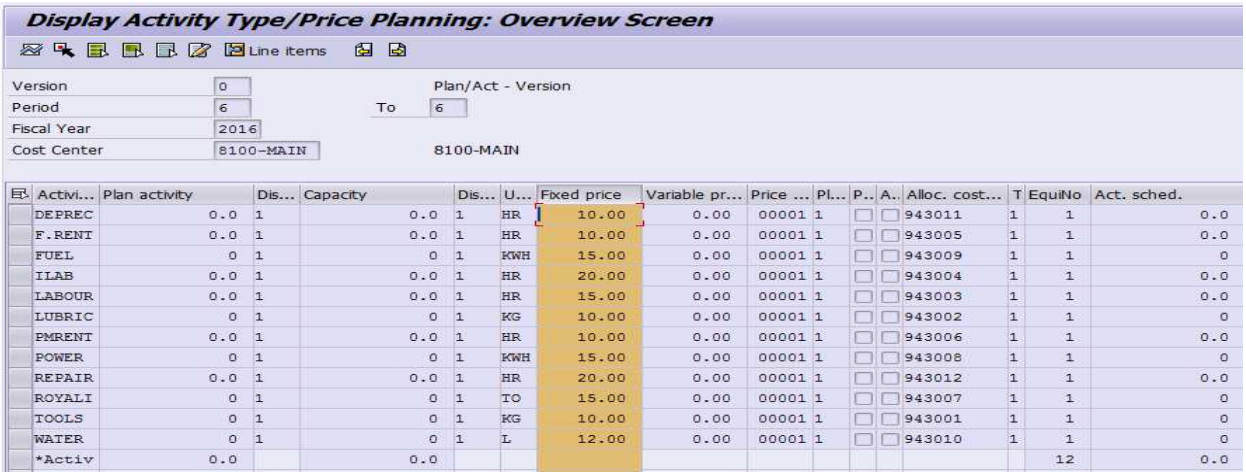


Create Material 8100-BY (Finished product)
Additional Data
Org. Levels
Check Screen Data
Quality management
Accounting 1
Accounting 2
Costing 1
Material 8100-BY 8100-BY
Plant 8100 8100-MFG Plant
Period 006.2016
Period 005.2016
Period 012.2015
General Valuation Data
Total Stock 0
Base Unit EA Each
Division 81
Valuation Cat.
Valuation Class 81F1
Valuated Un
VC: Sale Ord. Stk
ML act.
Mat. Price Analysis
Project Stock VC
Price Determ. 2 Transaction-Based
Prices and values
Currency INR
Company code currency
Standard Price 100.00
Per. unit price
Price Unit 1
Prc. Ctrl S
Inventory Value 0.00

CS01


Create material BOM: General Item Overview
Subitems
New Entries
Header
Validity
Material 8100-MAIN 8100-MAIN
Plant 8100 8100-MFG Plant
Alternative BOM 1
Material
Document
General
Item ICt Component Component description Quantity Un A... SIs Valid From Valid to Change No. P...
0010 L 8100-RM1 8100-RM1 2 EA 15.06.2016 31.12.9999
0020 L 8100-RM2 8100-RM2 3 EA 15.06.2016 31.12.9999
0030 L 8100-PACK 8100-PACK 1 EA 15.06.2016 31.12.9999
0040 L 8100-BY 8100-BY 1- EA 15.06.2016 31.12.9999
0050 L
0060 L

KP26



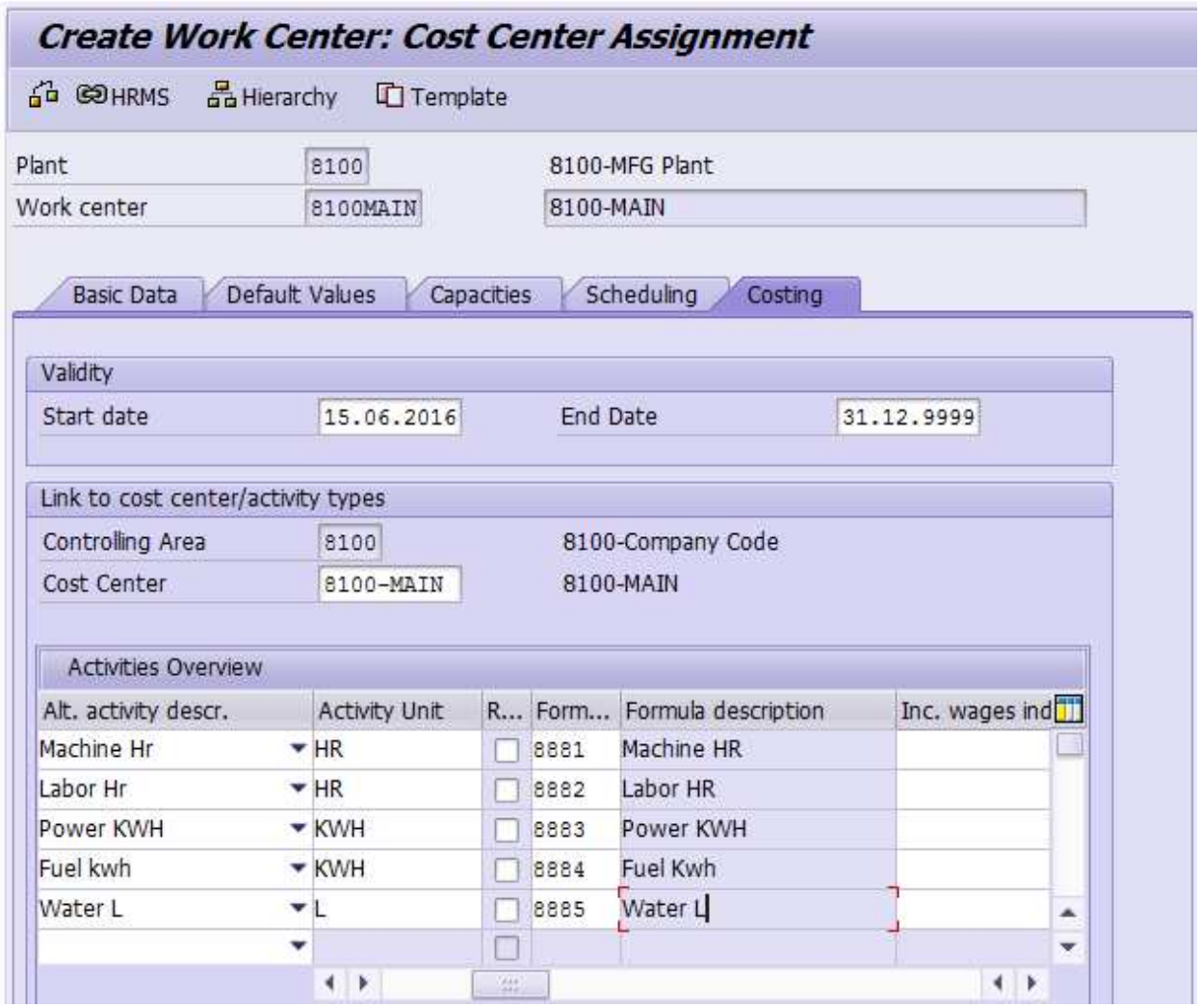
Display Activity Type/Price Planning: Overview Screen

Line items

Version	0	Plan/Act - Version	
Period	6	To	6
Fiscal Year	2016		
Cost Center	8100-MAIN	8100-MAIN	

Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...	T	EquiNo	Act. sched.
DEPREC	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943011	1	1	0.0
F.RENT	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943005	1	1	0.0
FUEL	0	1	0	1	KWH	15.00	0.00	00001	1			943009	1	1	0
ILAB	0.0	1	0.0	1	HR	20.00	0.00	00001	1			943004	1	1	0.0
LABOUR	0.0	1	0.0	1	HR	15.00	0.00	00001	1			943003	1	1	0.0
LUBRIC	0	1	0	1	KG	10.00	0.00	00001	1			943002	1	1	0
PMRENT	0.0	1	0.0	1	HR	10.00	0.00	00001	1			943006	1	1	0.0
POWER	0	1	0	1	KWH	15.00	0.00	00001	1			943008	1	1	0
REPAIR	0.0	1	0.0	1	HR	20.00	0.00	00001	1			943012	1	1	0.0
ROYALI	0	1	0	1	TO	15.00	0.00	00001	1			943007	1	1	0
TOOLS	0	1	0	1	KG	10.00	0.00	00001	1			943001	1	1	0
WATER	0	1	0	1	L	12.00	0.00	00001	1			943010	1	1	0
*Activ	0.0		0.0											12	0.0

CR01



Create Work Center: Cost Center Assignment

HRMS | Hierarchy | Template

Plant	8100	8100-MFG Plant
Work center	8100MAIN	8100-MAIN

Basic Data | Default Values | Capacities | Scheduling | Costing

Validity

Start date	15.06.2016	End Date	31.12.9999

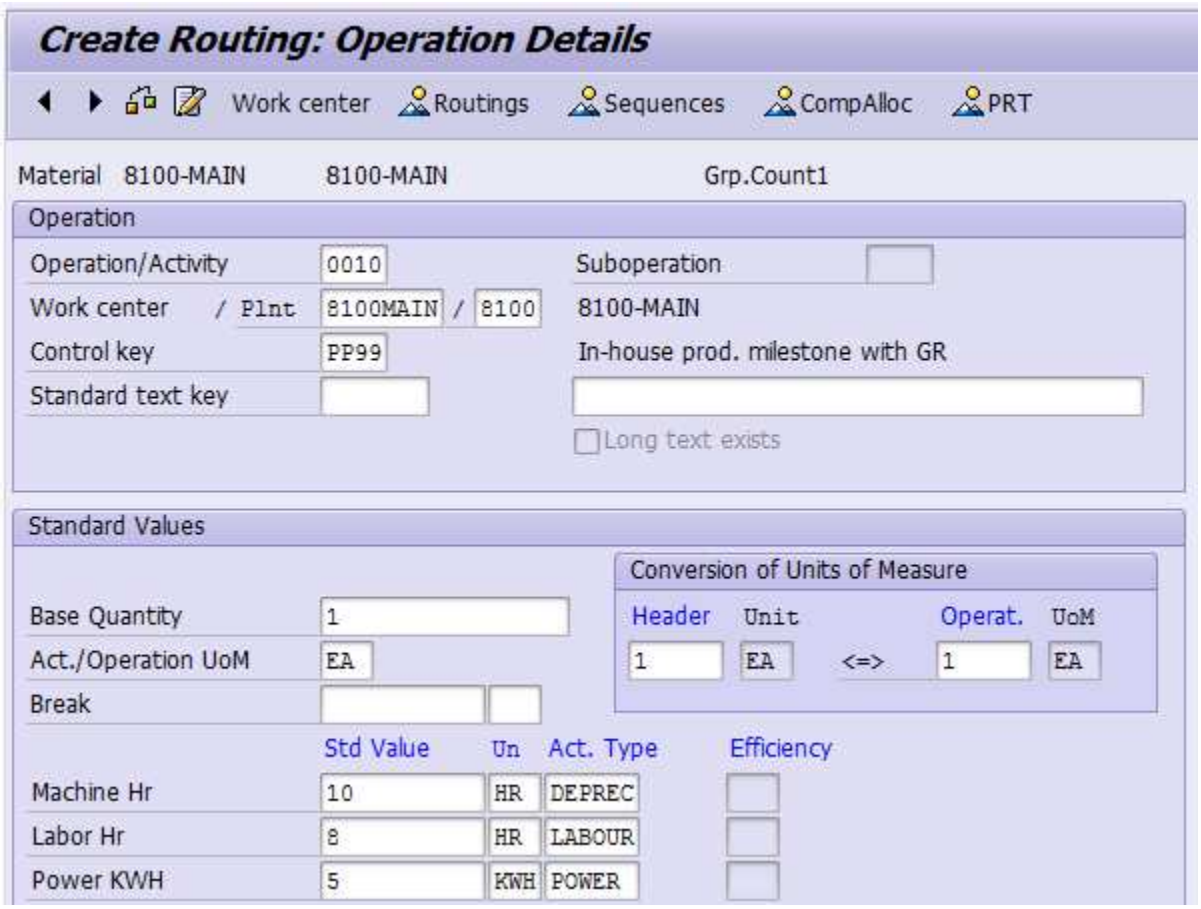
Link to cost center/activity types

Controlling Area	8100	8100-Company Code
Cost Center	8100-MAIN	8100-MAIN

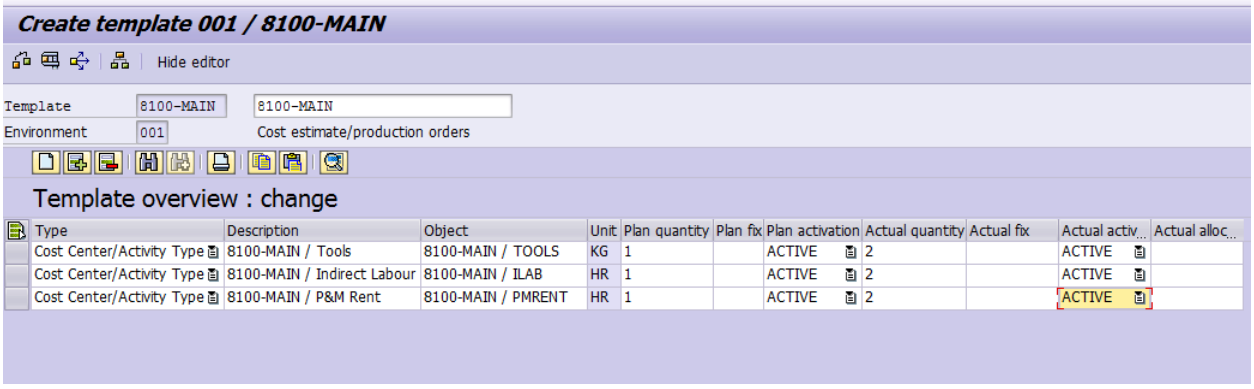
Activities Overview

Alt. activity descr.	Activity Unit	R...	Form...	Formula description	Inc. wages ind
Machine Hr	HR		8881	Machine HR	
Labor Hr	HR		8882	Labor HR	
Power KWH	KWH		8883	Power KWH	
Fuel kwh	KWH		8884	Fuel Kwh	
Water L	L		8885	Water L	

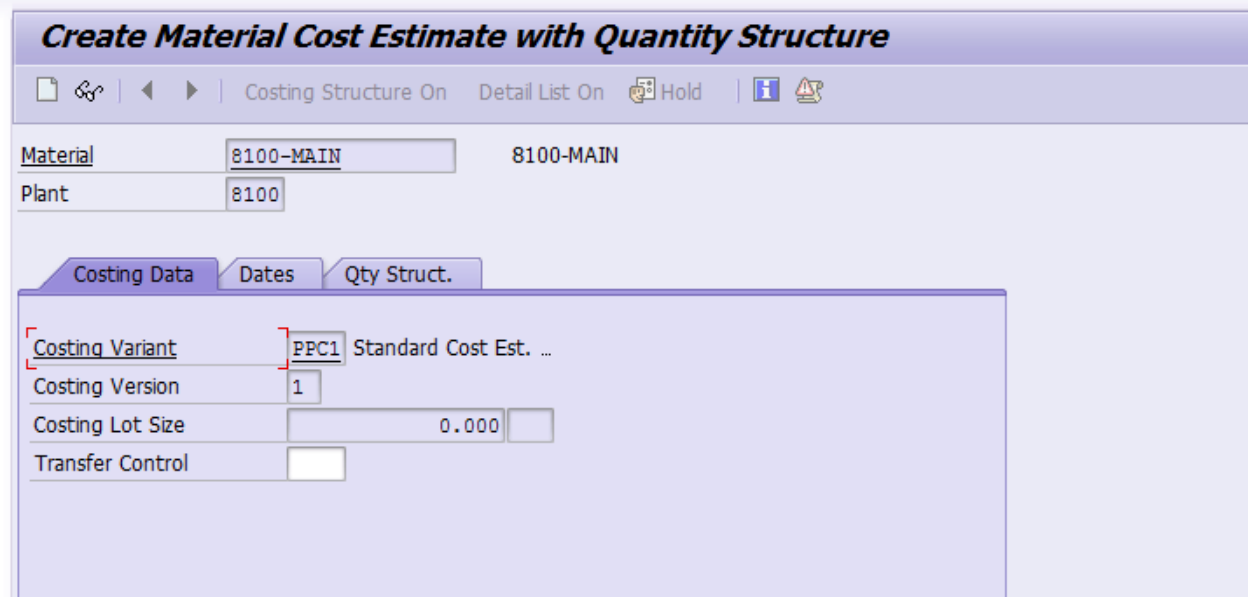
CA01

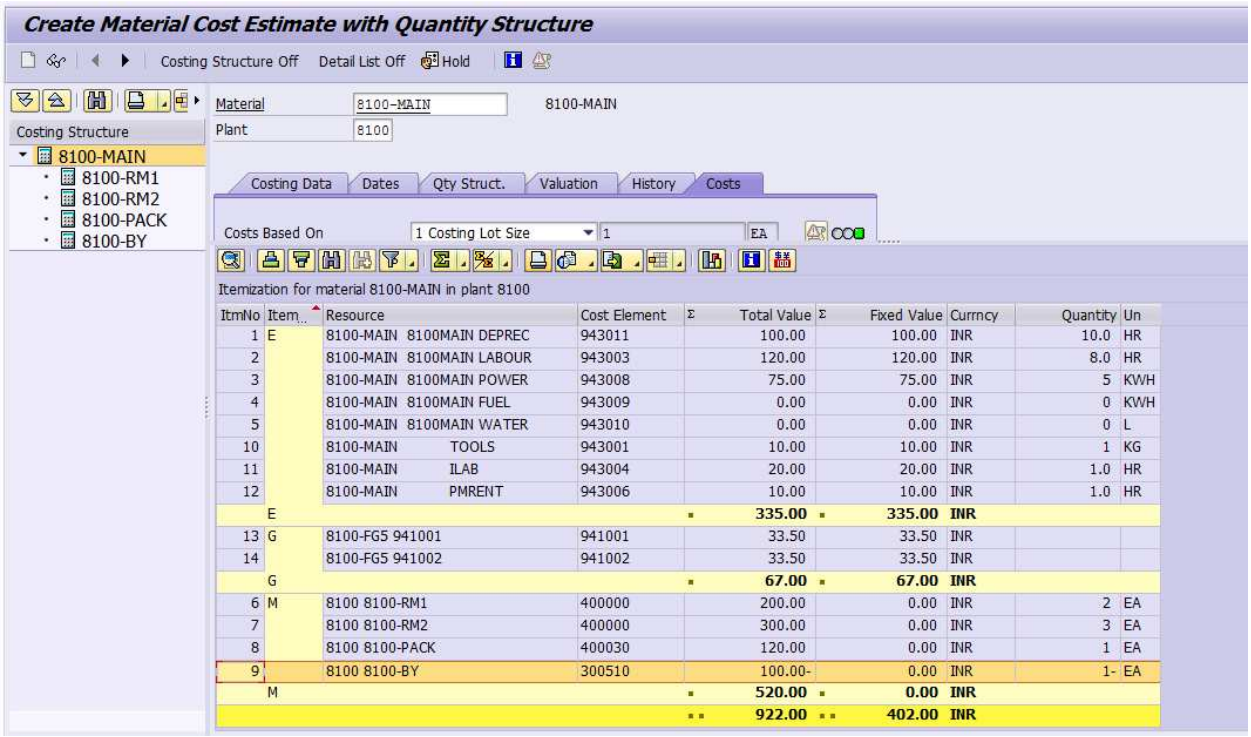


Template Allocation

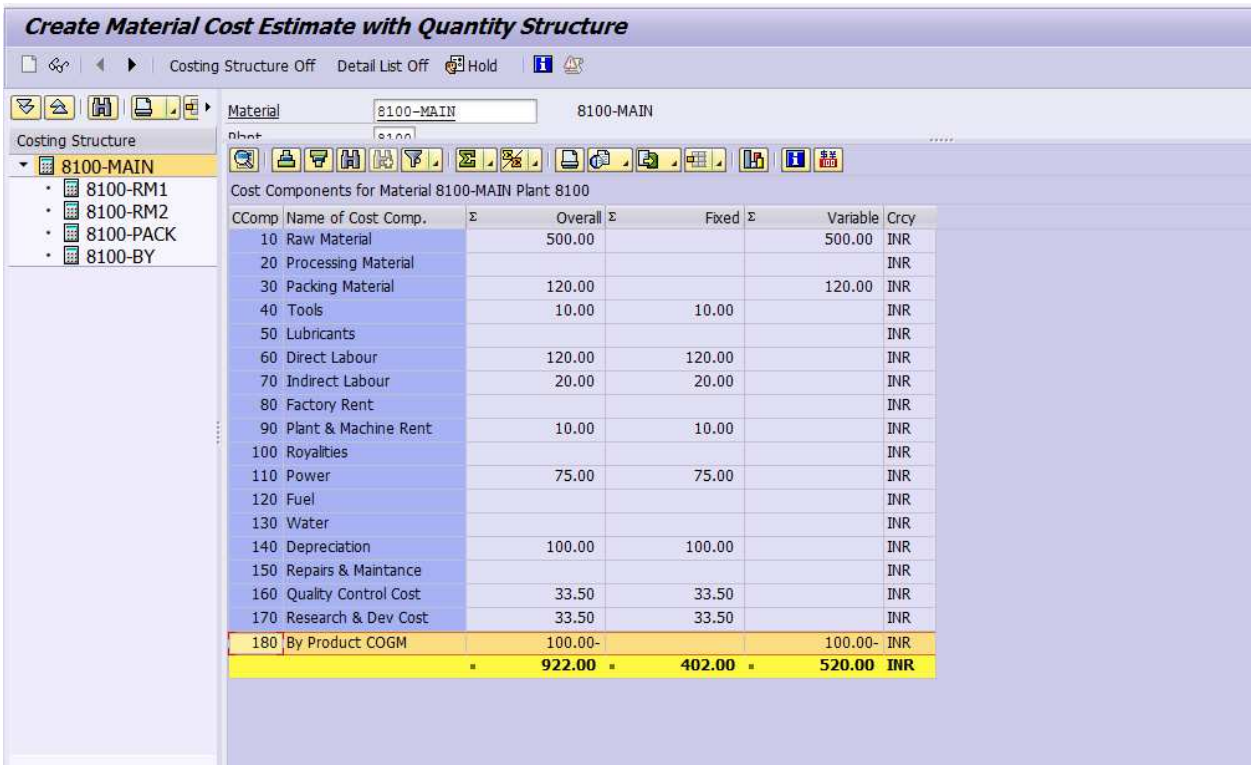


CK11N

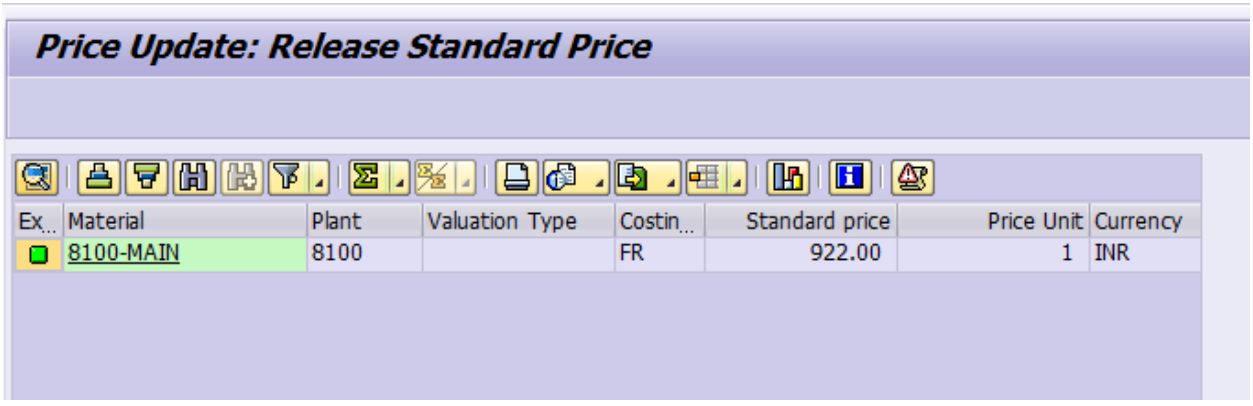




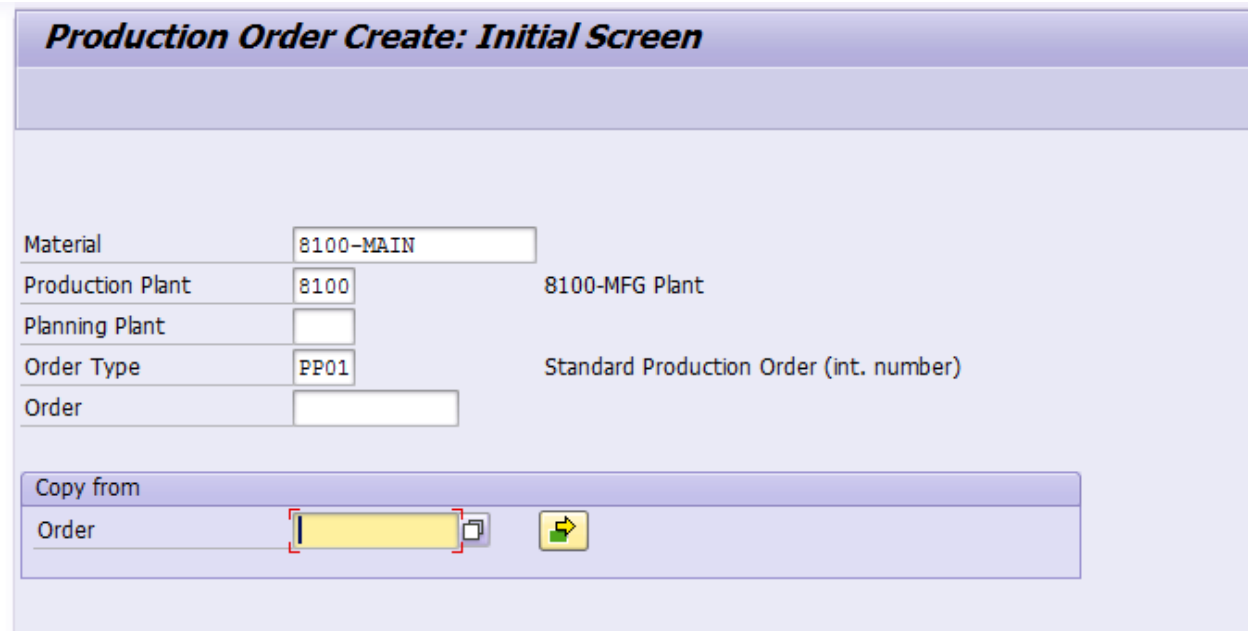
ItmNo	Item...	Resource	Cost Element	Σ	Total Value	Σ	Fixed Value	Currncy	Quantity	Un
1	E	8100-MAIN 8100MAIN DEPREC	943011		100.00		100.00	INR	10.0	HR
2		8100-MAIN 8100MAIN LABOUR	943003		120.00		120.00	INR	8.0	HR
3		8100-MAIN 8100MAIN POWER	943008		75.00		75.00	INR	5	KWH
4		8100-MAIN 8100MAIN FUEL	943009		0.00		0.00	INR	0	KWH
5		8100-MAIN 8100MAIN WATER	943010		0.00		0.00	INR	0	L
10		8100-MAIN TOOLS	943001		10.00		10.00	INR	1	KG
11		8100-MAIN ILAB	943004		20.00		20.00	INR	1.0	HR
12		8100-MAIN PMRENT	943006		10.00		10.00	INR	1.0	HR
	E			▪	**335.00**	▪	**335.00**	**INR**		
13	G	8100-FG5 941001	941001		33.50		33.50	INR		
14		8100-FG5 941002	941002		33.50		33.50	INR		
	G			▪	**67.00**	▪	**67.00**	**INR**		
6	M	8100 8100-RM1	400000		200.00		0.00	INR	2	EA
7		8100 8100-RM2	400000		300.00		0.00	INR	3	EA
8		8100 8100-PACK	400030		120.00		0.00	INR	1	EA
9		8100 8100-BY	300510		100.00-		0.00	INR	1-	EA
	M			▪	**520.00**	▪	**0.00**	**INR**		
				▪▪	**922.00**	▪▪	**402.00**	**INR**		

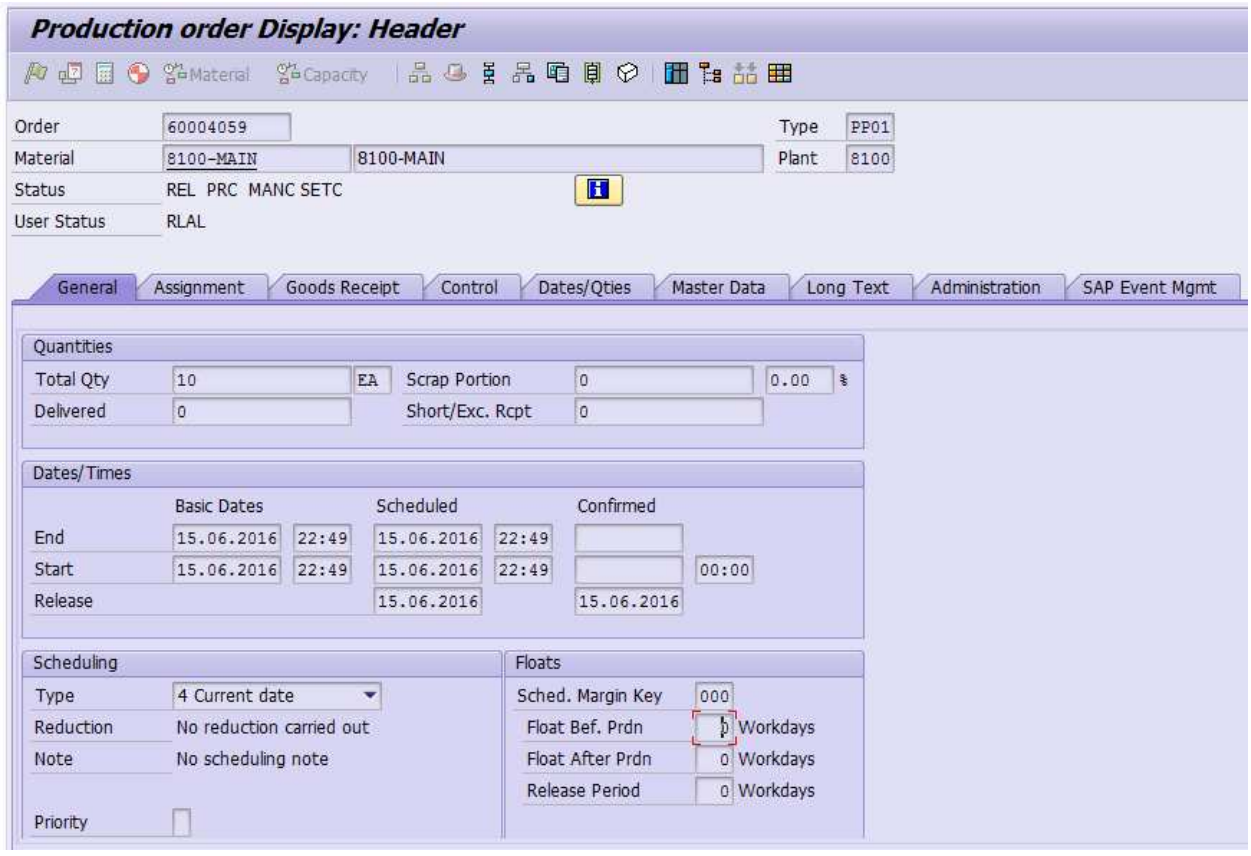

Create Material Cost Estimate with Quantity Structure
Costing Structure Off
Detail List Off
Hold
Material
8100-MAIN
8100-MAIN
Costing Structure
8100-MAIN
8100-RM1
8100-RM2
8100-PACK
8100-BY
Cost Components for Material 8100-MAIN Plant 8100
CComp Name of Cost Comp. Overall Fixed Variable Crcy
10 Raw Material 500.00 500.00 INR
20 Processing Material INR
30 Packing Material 120.00 120.00 INR
40 Tools 10.00 10.00 INR
50 Lubricants INR
60 Direct Labour 120.00 120.00 INR
70 Indirect Labour 20.00 20.00 INR
80 Factory Rent INR
90 Plant & Machine Rent 10.00 10.00 INR
100 Royalities INR
110 Power 75.00 75.00 INR
120 Fuel INR
130 Water INR
140 Depreciation 100.00 100.00 INR
150 Repairs & Maintance INR
160 Quality Control Cost 33.50 33.50 INR
170 Research & Dev Cost 33.50 33.50 INR
180 By Product COGM 100.00- 100.00- INR
922.00 402.00 520.00 INR

CK24


Price Update: Release Standard Price
Ex... Material Plant Valuation Type Costin... Standard price Price Unit Currency
8100-MAIN 8100 FR 922.00 1 INR

CO01


Production Order Create: Initial Screen
Material
8100-MAIN
Production Plant
8100
8100-MFG Plant
Planning Plant
Order Type
PP01
Standard Production Order (int. number)
Order
Copy from
Order


Production order Display: Header
Material
Capacity
Order
60004059
Type
PP01
Material
8100-MAIN
8100-MAIN
Plant
8100
Status
REL PRC MANC SETC
User Status
RLAL
General
Assignment
Goods Receipt
Control
Dates/Qties
Master Data
Long Text
Administration
SAP Event Mgmt
Quantities
Total Qty
10
EA
Scrap Portion
0
0.00
%
Delivered
0
Short/Exc. Rcpt
0
Dates/Times
Basic Dates
Scheduled
Confirmed
End
15.06.2016
22:49
15.06.2016
22:49
Start
15.06.2016
22:49
15.06.2016
22:49
00:00
Release
15.06.2016
15.06.2016
Scheduling
Type
4 Current date
Reduction
No reduction carried out
Note
No scheduling note
Priority
Floats
Sched. Margin Key
000
Float Bef. Prdn
0
Workdays
Float After Prdn
0
Workdays
Release Period
0
Workdays

Cost Trend

Order 60004059 8100-MAIN
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-MAIN 8100-MAIN
Planned Quantity 10 EA Each

Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-BY	8100-BY		1,000.00-		0.00		1,000.00	100.00-	INR
	8100/8100-RM1	8100-RM1		2,000.00		0.00		2,000.00-	100.00-	INR
	8100/8100-RM2	8100-RM2		3,000.00		0.00		3,000.00-	100.00-	INR
	8100/8100-PACK	8100-PACK		1,200.00		0.00		1,200.00-	100.00-	INR
Goods Issues				**5,200.00**		**0.00**		**5,200.00-**		**INR**
Confirmations	8100-MAIN/TOOLS	8100-MAIN / Tools		10.00		0.00		10.00-	100.00-	INR
	8100-MAIN/LABOUR	8100-MAIN / Direct Labour		1,200.00		0.00		1,200.00-	100.00-	INR
	8100-MAIN/ILAB	8100-MAIN / Indirect Labour		20.00		0.00		20.00-	100.00-	INR
	8100-MAIN/PMRENT	8100-MAIN / P&M Rent		10.00		0.00		10.00-	100.00-	INR
	8100-MAIN/POWER	8100-MAIN / Power		750.00		0.00		750.00-	100.00-	INR
	8100-MAIN/DEPREC	8100-MAIN / Depreciation		1,000.00		0.00		1,000.00-	100.00-	INR
Confirmations				**2,990.00**		**0.00**		**2,990.00-**		**INR**
Overhead	8100-FG5	8100-FG5		299.00		0.00		299.00-	100.00-	INR
	8100-FG5	8100-FG5		299.00		0.00		299.00-	100.00-	INR
Overhead				**598.00**		**0.00**		**598.00-**		**INR**
Goods Receipt	8100/8100-MAIN	8100-MAIN		9,220.00-		0.00		9,220.00	100.00-	INR
Goods Receipt				**9,220.00-**		**0.00**		**9,220.00**		**INR**
				432.00-		**0.00**		**432.00**		**INR**

CO11N

Enter Time Ticket for Production Order

Goods Movements | Actual Data

Confirmation	123999			
Order	60004059	Material	8100-MAIN	8100-MAIN
Operation	0010	Sequence	0	
Suboperation				
Capacity Cat.		Split		
Work Center	8100MAIN	Plant	8100	8100-MAIN

Confirm.type: X Final confirmation — Clear open reservations

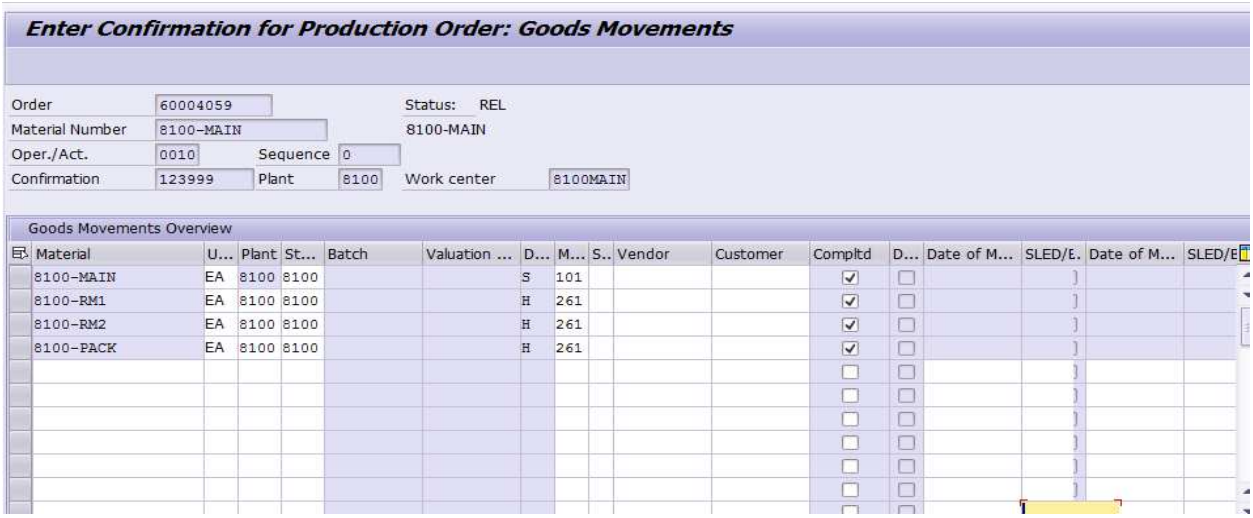
Quantities

	To Be Confirmed	Unit
Yield	10	EA
Scrap		
Rework		
Reason for Var.		

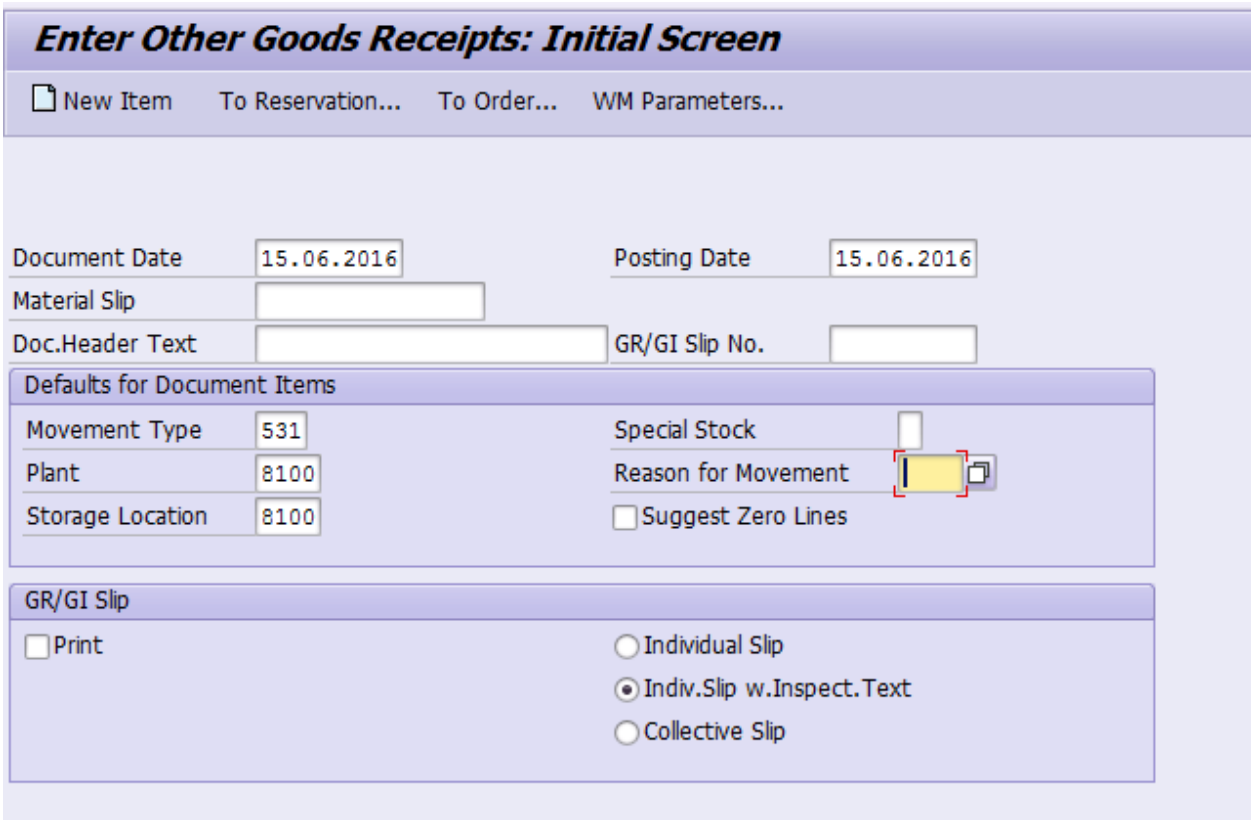
Activities

	To Be Confirmed	Unit	R
Machine Hr	100.0	HR	
Labor Hr	80.0	HR	
Power KWH	55	KWH	
Fuel kwh		KWH	
Water L		L	
Activity 6			

Goods Movement

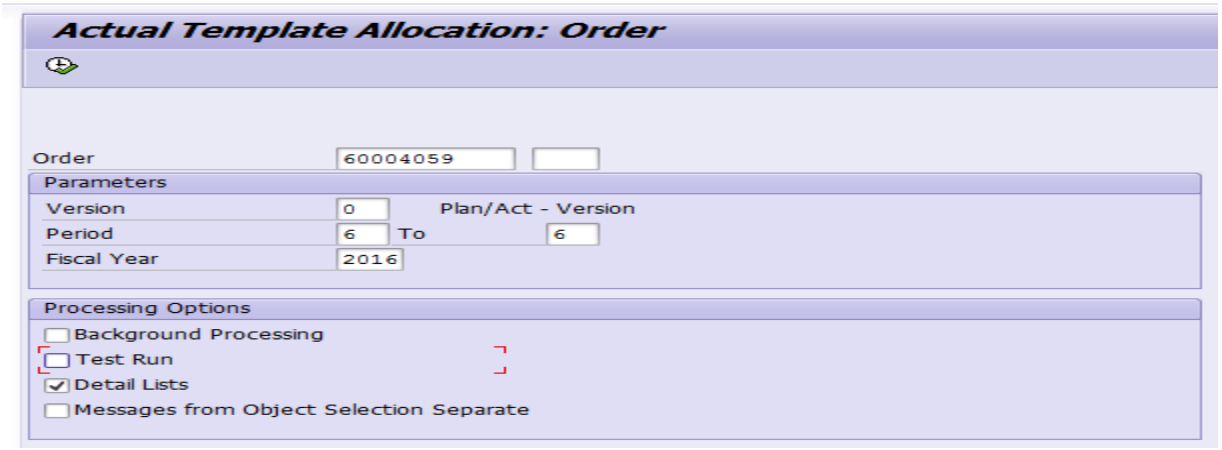


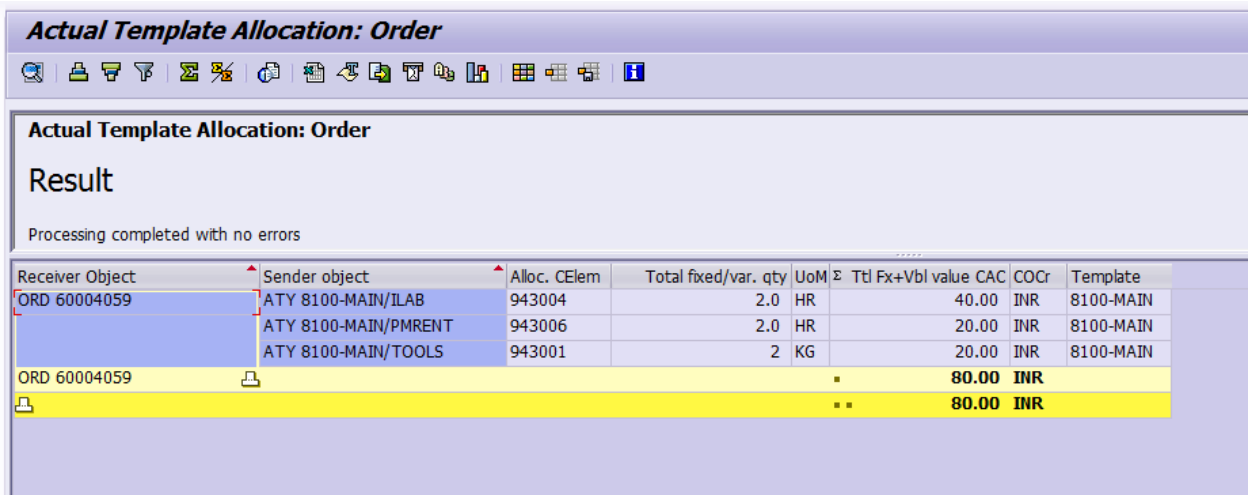
MB31-By Product Goods Receipt



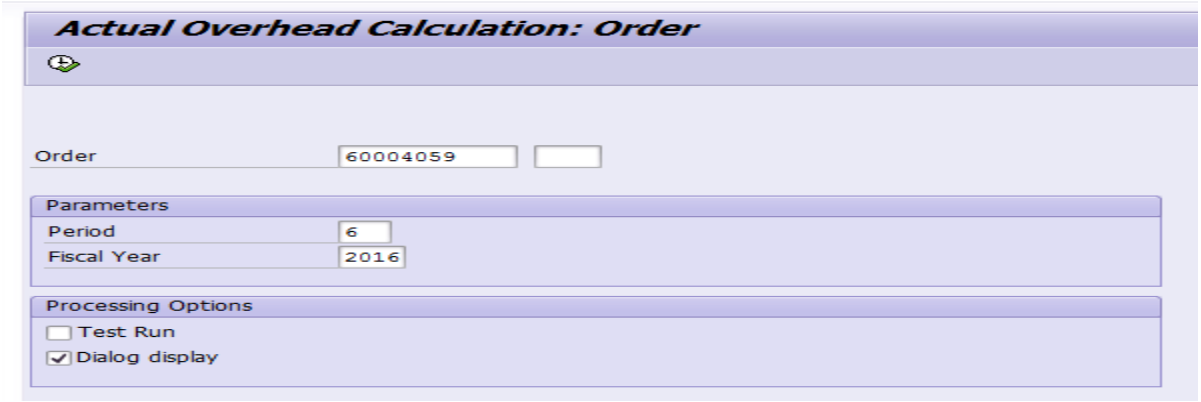
Enter Other Goods Receipts: New Items
To Reservation...
To Order...
To Purchase Order...
Movement Type
531
GI by-product
Order
60004059
More
Recipient
Items
F Item Material
Quantity
UnE SLoc Batch
Re Plnt
1 8100-BY 10 8100 8100
2 8100 8100
3 8100 8100

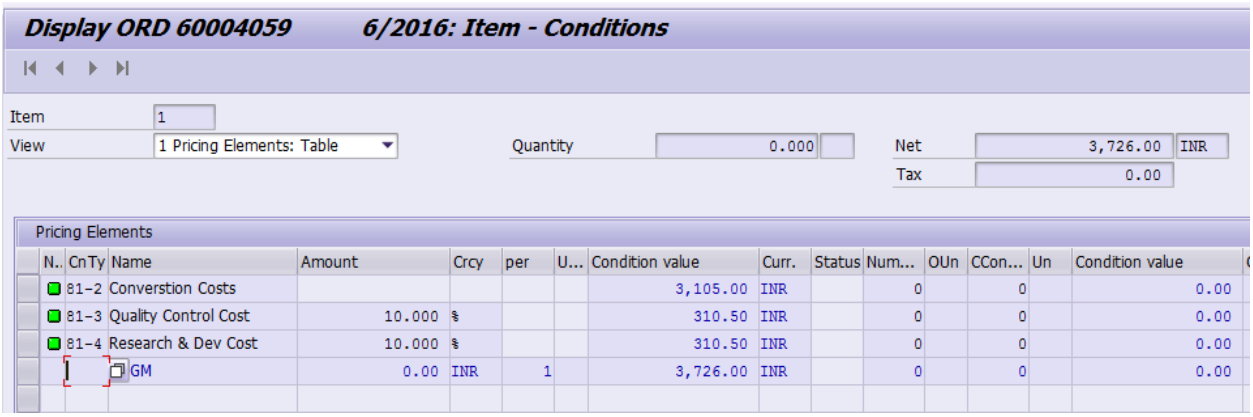
CPTE


Actual Template Allocation: Order
Order
60004059
Parameters
Version
0
Plan/Act - Version
Period
6
To
6
Fiscal Year
2016
Processing Options
Background Processing
Test Run
Detail Lists
Messages from Object Selection Separate

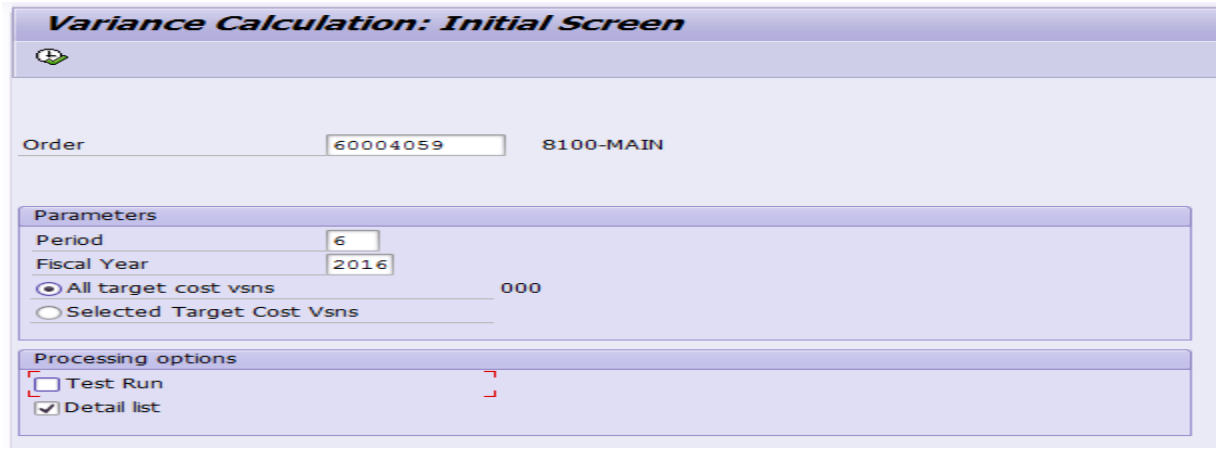

Actual Template Allocation: Order
Actual Template Allocation: Order
Result
Processing completed with no errors
Receiver Object
Sender object
Alloc. CElem
Total fixed/var. qty
UoM
Σ Ttl Fx+Vbl value CAC
COCr
Template
ORD 60004059
ATY 8100-MAIN/ILAB
943004
2.0
HR
40.00
INR
8100-MAIN
ATY 8100-MAIN/PMRENT
943006
2.0
HR
20.00
INR
8100-MAIN
ATY 8100-MAIN/TOOLS
943001
2
KG
20.00
INR
8100-MAIN
ORD 60004059
80.00 INR
80.00 INR

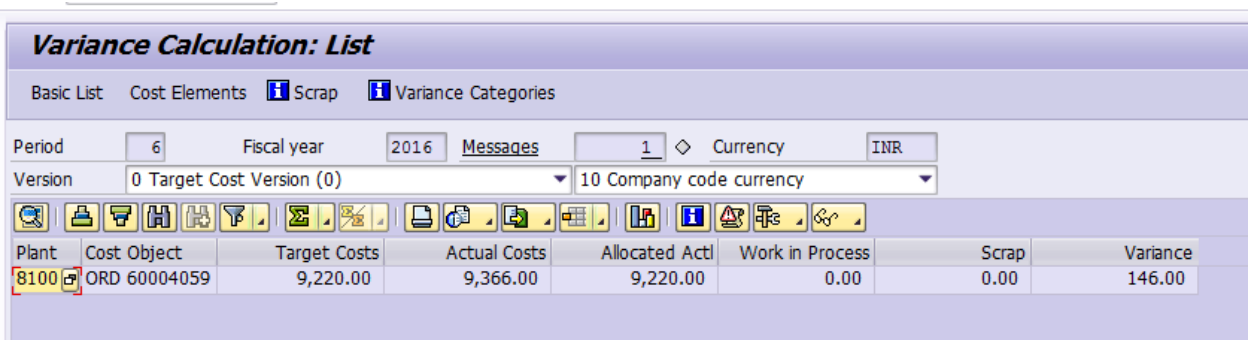
KGI2


Actual Overhead Calculation: Order
Order
60004059
Parameters
Period
6
Fiscal Year
2016
Processing Options
Test Run
Dialog display

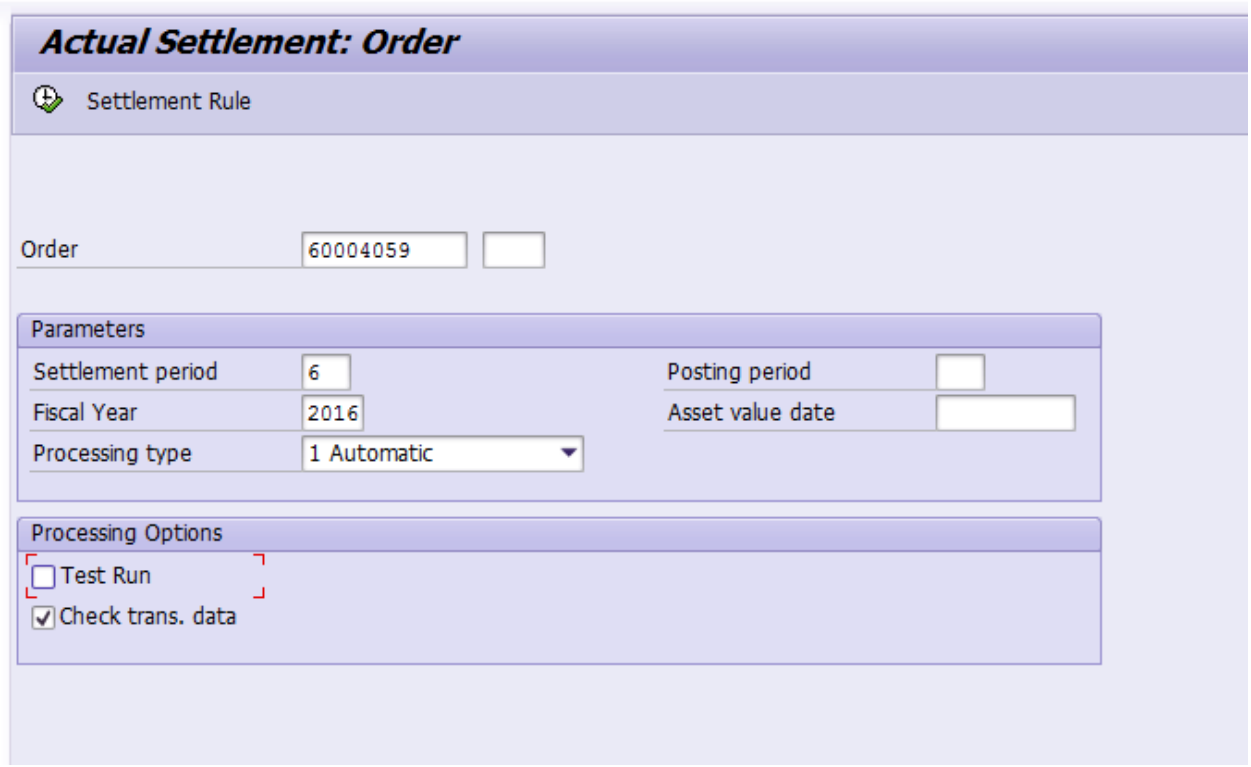

Display ORD 60004059 6/2016: Item - Conditions
Item
1
View
1 Pricing Elements: Table
Quantity
0.000
Net
3,726.00
INR
Tax
0.00
Pricing Elements
N.. CnTy Name Amount Crcy per U... Condition value Curr. Status Num... OUn CCon... Un Condition value
81-2 Converstion Costs 3,105.00 INR 0 0 0.00
81-3 Quality Control Cost 10.000 % 310.50 INR 0 0 0.00
81-4 Research & Dev Cost 10.000 % 310.50 INR 0 0 0.00
GM 0.00 INR 1 3,726.00 INR 0 0 0.00

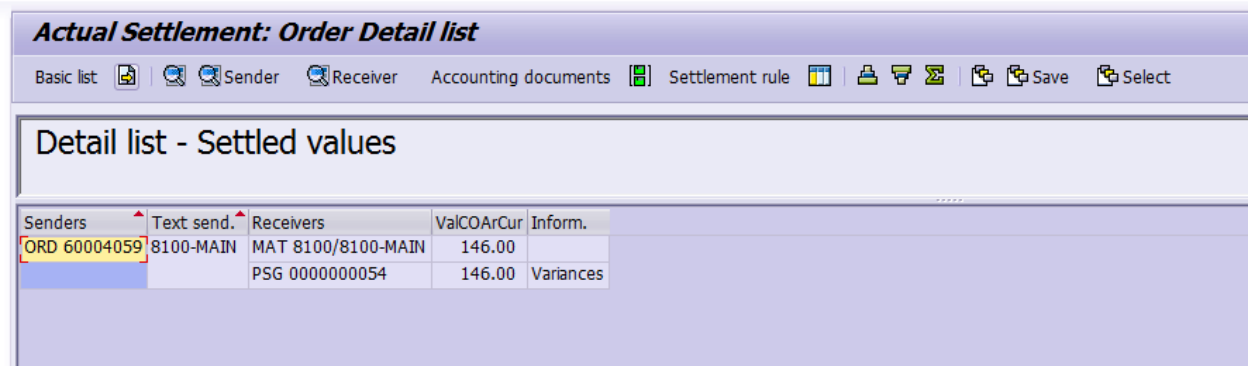
KKS2


Variance Calculation: Initial Screen
Order
60004059
8100-MAIN
Parameters
Period
6
Fiscal Year
2016
All target cost vsns
000
Selected Target Cost Vsns
Processing options
Test Run
Detail list


Variance Calculation: List
Basic List
Cost Elements
Scrap
Variance Categories
Period 6
Fiscal year 2016
Messages 1
Currency INR
Version 0 Target Cost Version (0)
10 Company code currency
Plant
Cost Object
Target Costs
Actual Costs
Allocated Actl
Work in Process
Scrap
Variance
8100
ORD 60004059
9,220.00
9,366.00
9,220.00
0.00
0.00
146.00

KO88


Actual Settlement: Order
Settlement Rule
Order
60004059
Parameters
Settlement period
6
Posting period
Fiscal Year
2016
Asset value date
Processing type
1 Automatic
Processing Options
Test Run
Check trans. data


Actual Settlement: Order Detail list
Basic list
Sender
Receiver
Accounting documents
Settlement rule
Save
Select
Detail list - Settled values
Senders
Text send.
Receivers
ValCOArCur
Inform.
ORD 60004059
8100-MAIN
MAT 8100/8100-MAIN
146.00
PSG 0000000054
146.00
Variances

CO03-Cost Trend

Order 60004059 8100-MAIN
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-MAIN 8100-MAIN

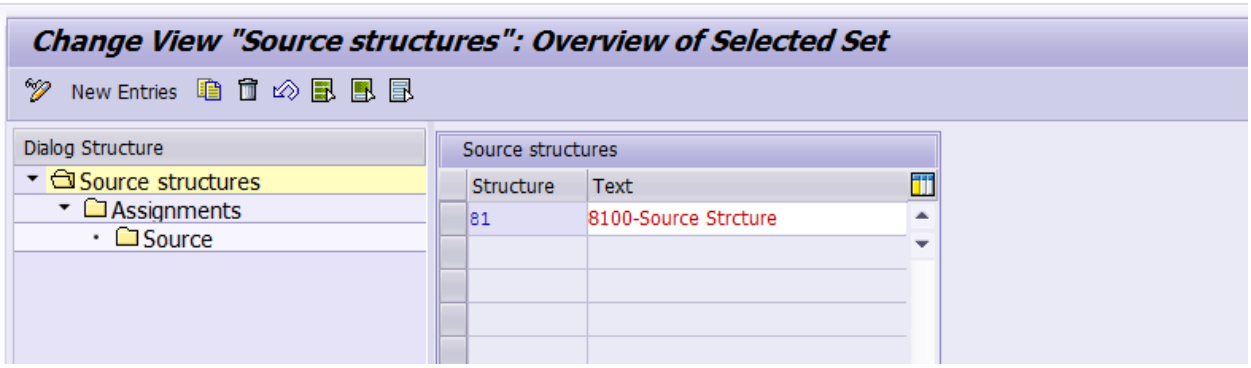
Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-BY	8100-BY		1,000.00-		1,000.00-		0.00		INR
	8100/8100-RM1	8100-RM1		2,000.00		2,200.00		200.00	10.00	INR
	8100/8100-RM2	8100-RM2		3,000.00		3,000.00		0.00		INR
	8100/8100-PACK	8100-PACK		1,200.00		1,440.00		240.00	20.00	INR
Goods Issues			▪	**5,200.00**	▪	**5,640.00**	▪	**440.00**		**INR**
Confirmations	8100-MAIN/TOOLS	8100-MAIN / Tools		10.00		20.00		10.00	100.00	INR
	8100-MAIN/LABOUR	8100-MAIN / Direct Labour		1,200.00		1,200.00		0.00		INR
	8100-MAIN/ILAB	8100-MAIN / Indirect Labour		20.00		40.00		20.00	100.00	INR
	8100-MAIN/PMRENT	8100-MAIN / P&M Rent		10.00		20.00		10.00	100.00	INR
	8100-MAIN/POWER	8100-MAIN / Power		750.00		825.00		75.00	10.00	INR
	8100-MAIN/DEPREC	8100-MAIN / Depreciation		1,000.00		1,000.00		0.00		INR
Confirmations			▪	**2,990.00**	▪	**3,105.00**	▪	**115.00**		**INR**
Overhead	8100-FG5	8100-FG5		299.00		310.50		11.50	3.85	INR
	8100-FG5	8100-FG5		299.00		310.50		11.50	3.85	INR
Overhead			▪	**598.00**	▪	**621.00**	▪	**23.00**		**INR**
Goods Receipt	8100/8100-MAIN	8100-MAIN		9,220.00-		9,220.00-		0.00		INR
Goods Receipt			▪	**9,220.00-**	▪	**9,220.00-**	▪	**0.00**		**INR**
Settlement		(without origin)		0.00		146.00-		146.00-		INR
Settlement			▪	**0.00**	▪	**146.00-**	▪	**146.00-**		**INR**
			▪▪	**432.00-**	▪▪	**0.00**	▪▪	**432.00**		**INR**

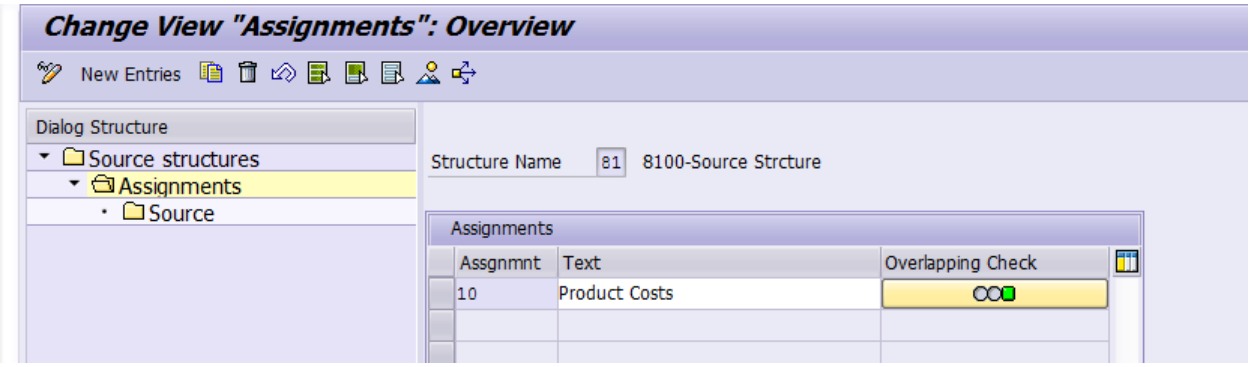
Joint Production

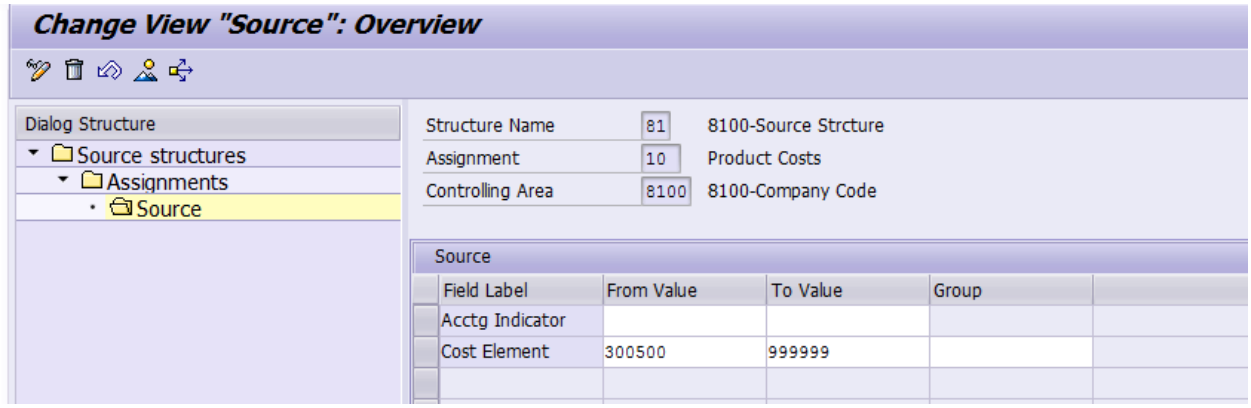
2). CO Product Costing

Configuration

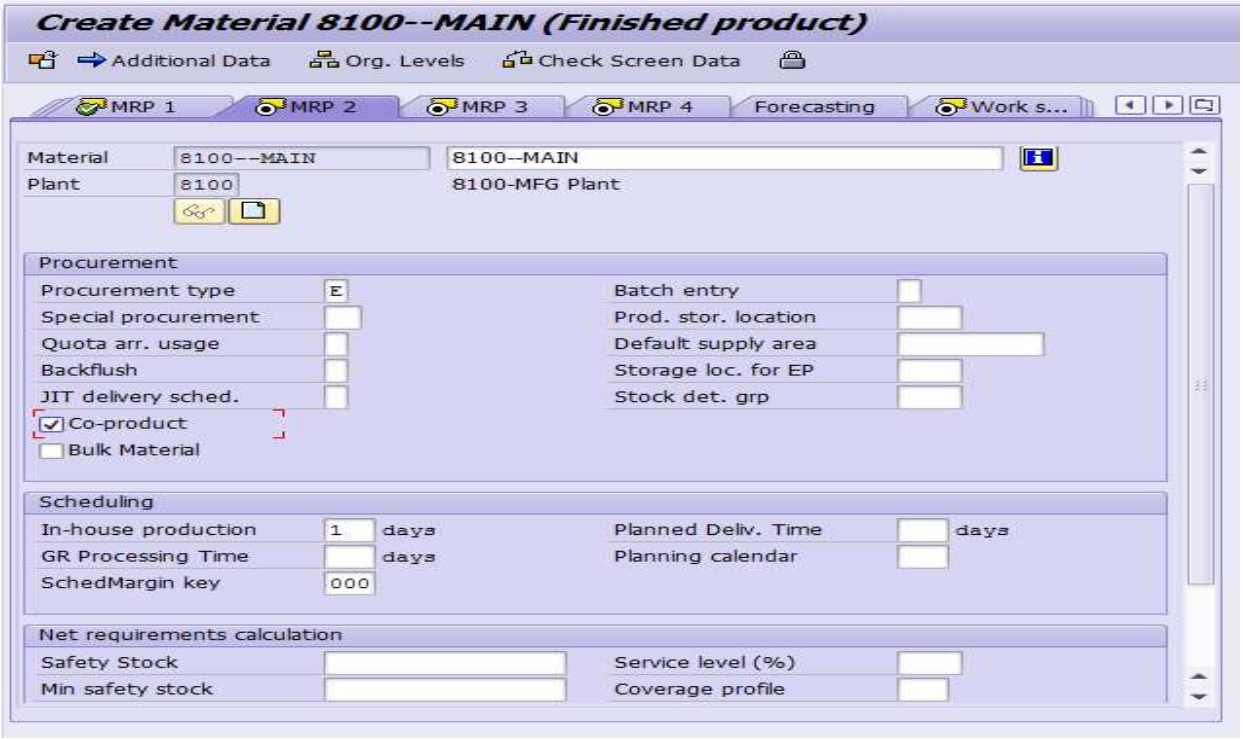
Create Source Structure-OKEU

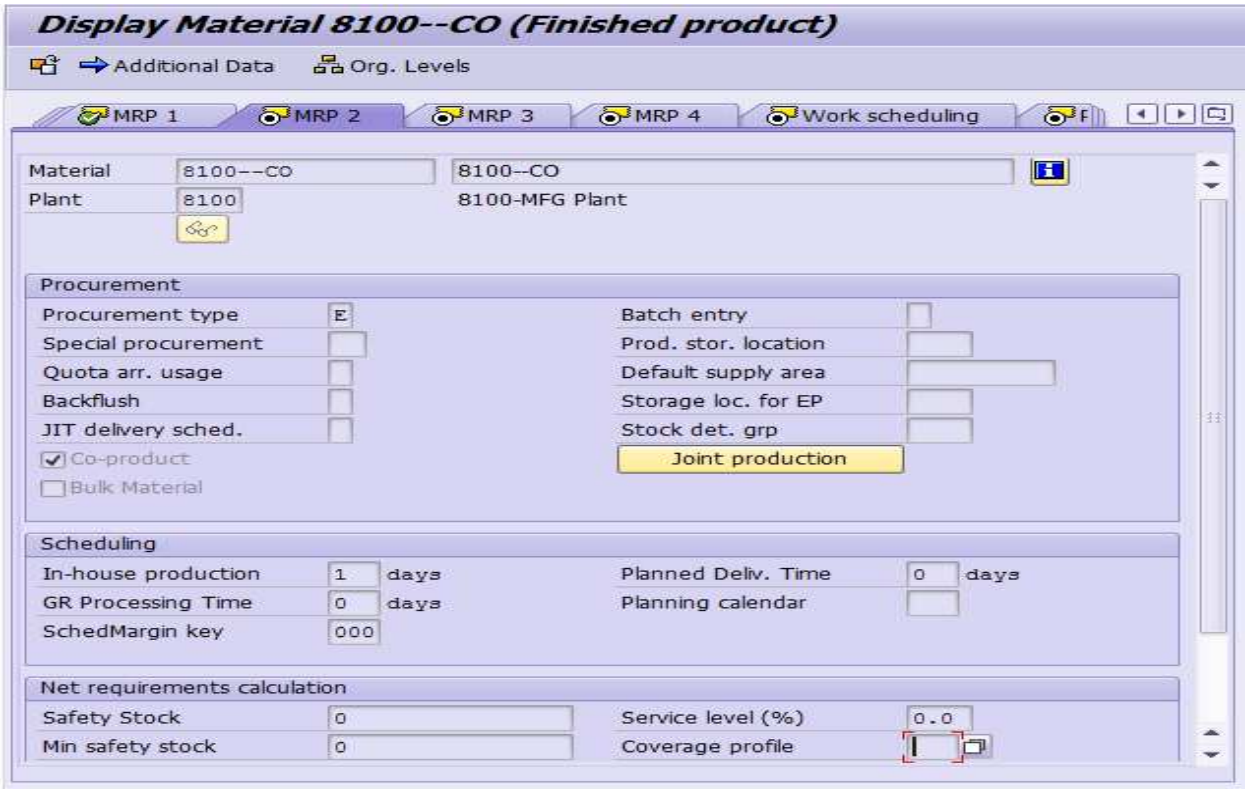






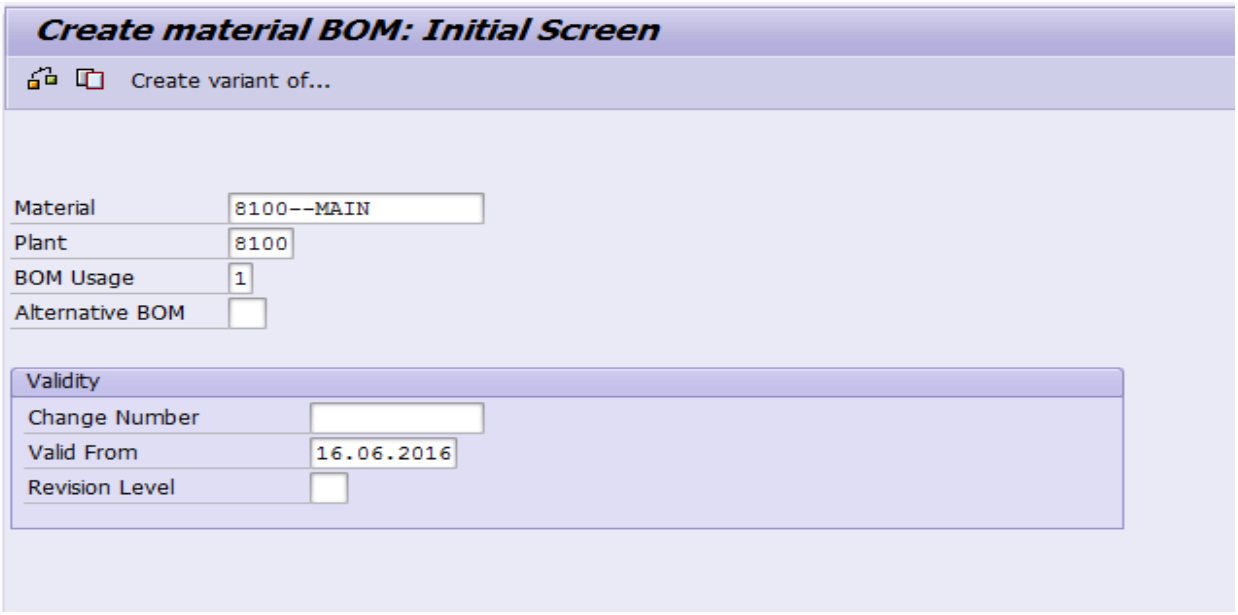
Material Master Creation-MM01 for CO Products

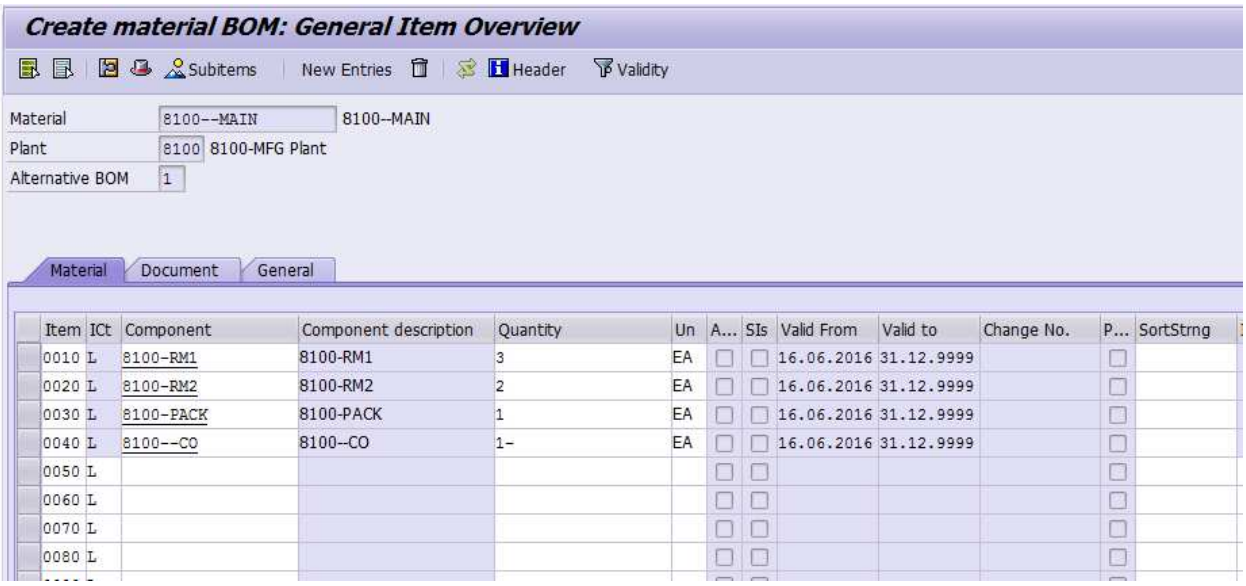


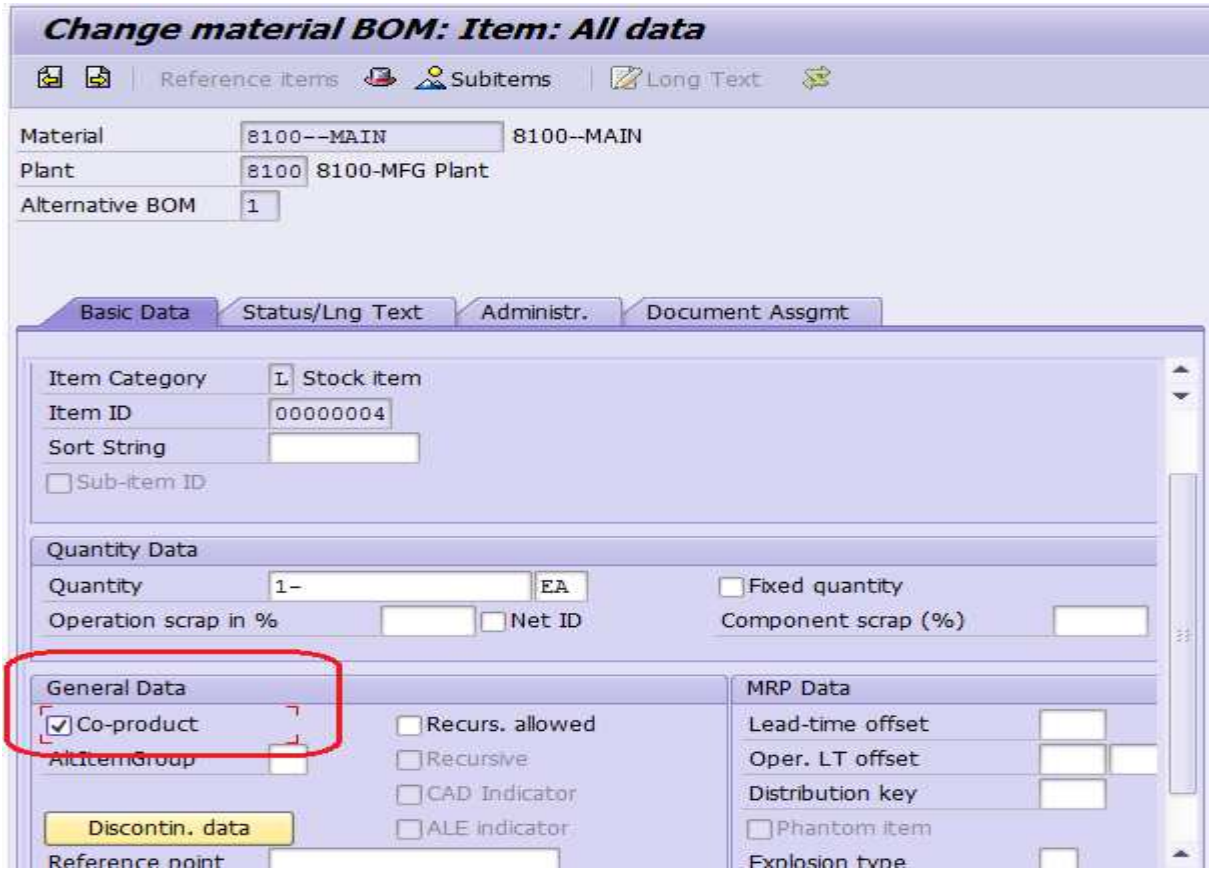


BOM and Routing only for Main material need to be maintained.

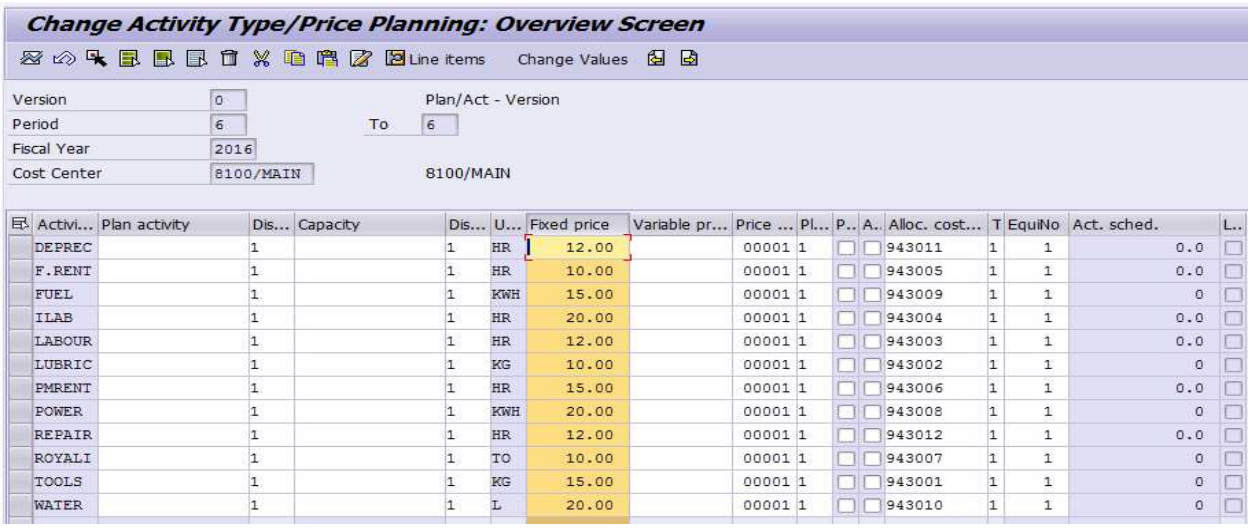
CS01 –Bill of Material





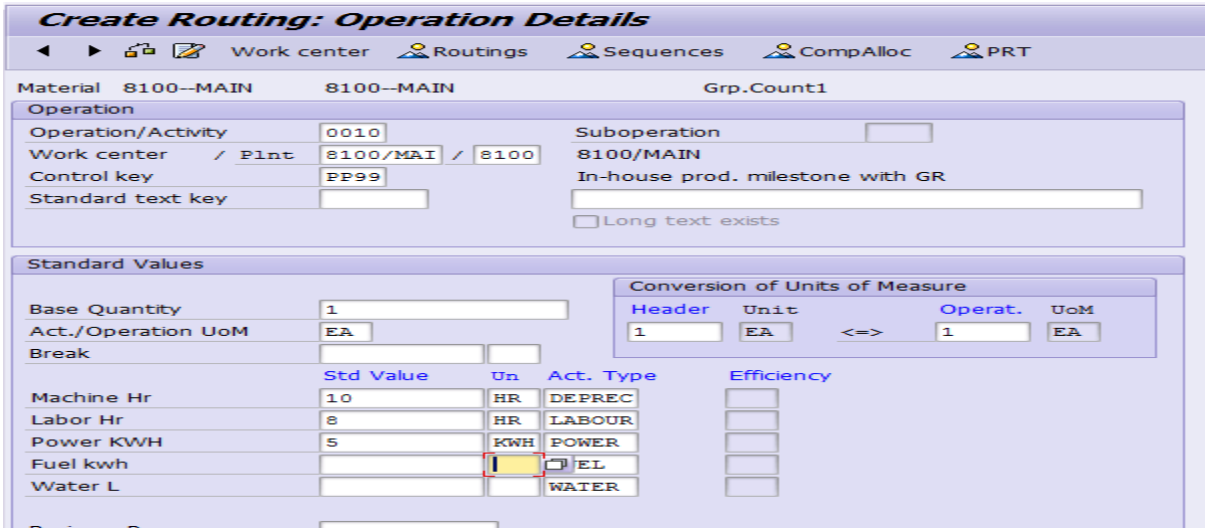


KP26-Activity Type Planning



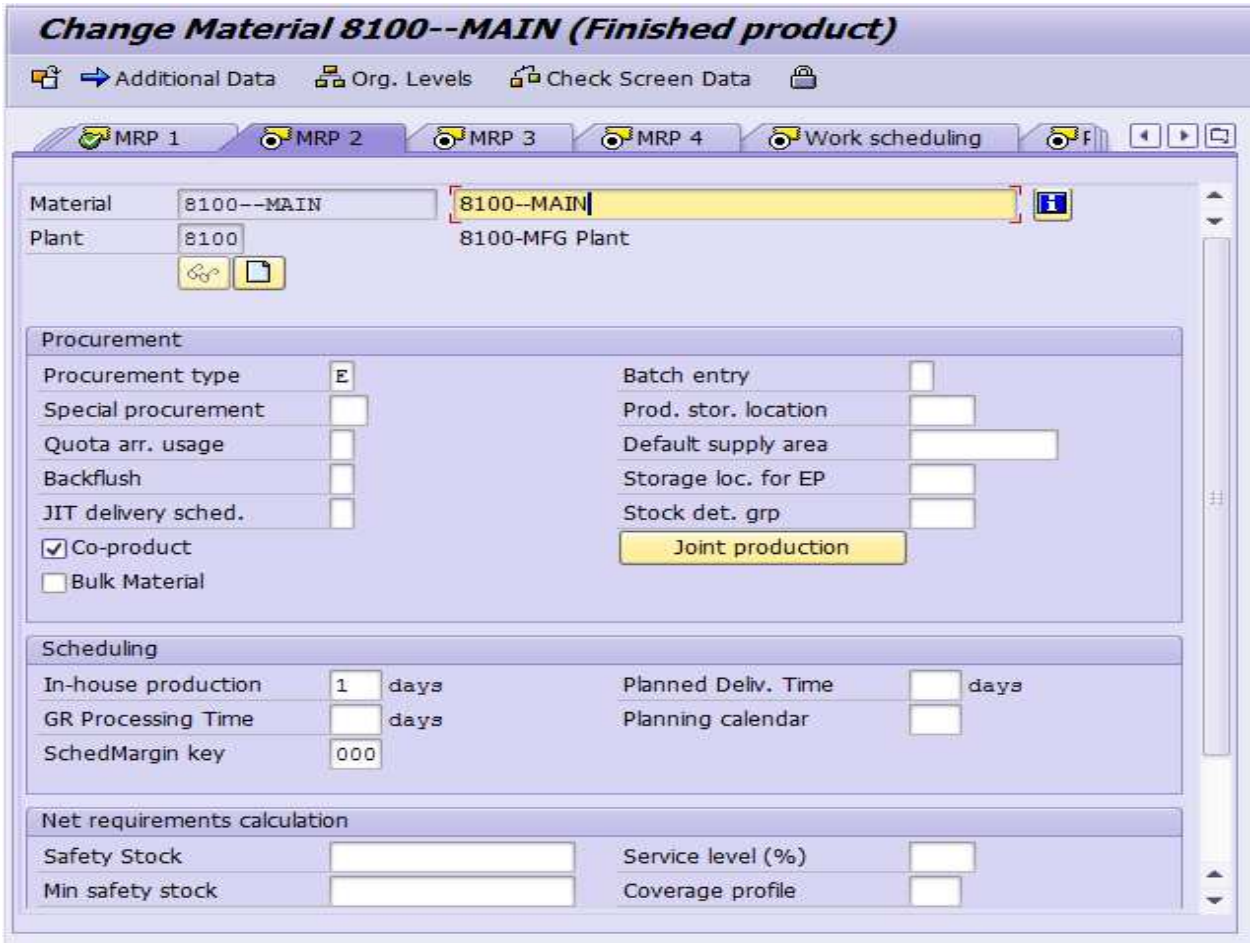
Activi...	Plan activity	Dis...	Capacity	Dis...	U...	Fixed price	Variable pr...	Price ...	Pl...	P..	A..	Alloc. cost...	T	EquiNo	Act. sched.	L..
DEPREC		1		1	HR	12.00		00001	1			943011	1	1	0.0	
F.RENT		1		1	HR	10.00		00001	1			943005	1	1	0.0	
FUEL		1		1	KWH	15.00		00001	1			943009	1	1	0	
ILAB		1		1	HR	20.00		00001	1			943004	1	1	0.0	
LABOUR		1		1	HR	12.00		00001	1			943003	1	1	0.0	
LUBRIC		1		1	KG	10.00		00001	1			943002	1	1	0	
PMRENT		1		1	HR	15.00		00001	1			943006	1	1	0.0	
POWER		1		1	KWH	20.00		00001	1			943008	1	1	0	
REPAIR		1		1	HR	12.00		00001	1			943012	1	1	0.0	
ROYALI		1		1	TO	10.00		00001	1			943007	1	1	0	
TOOLS		1		1	KG	15.00		00001	1			943001	1	1	0	
WATER		1		1	L	20.00		00001	1			943010	1	1	0	

CA01

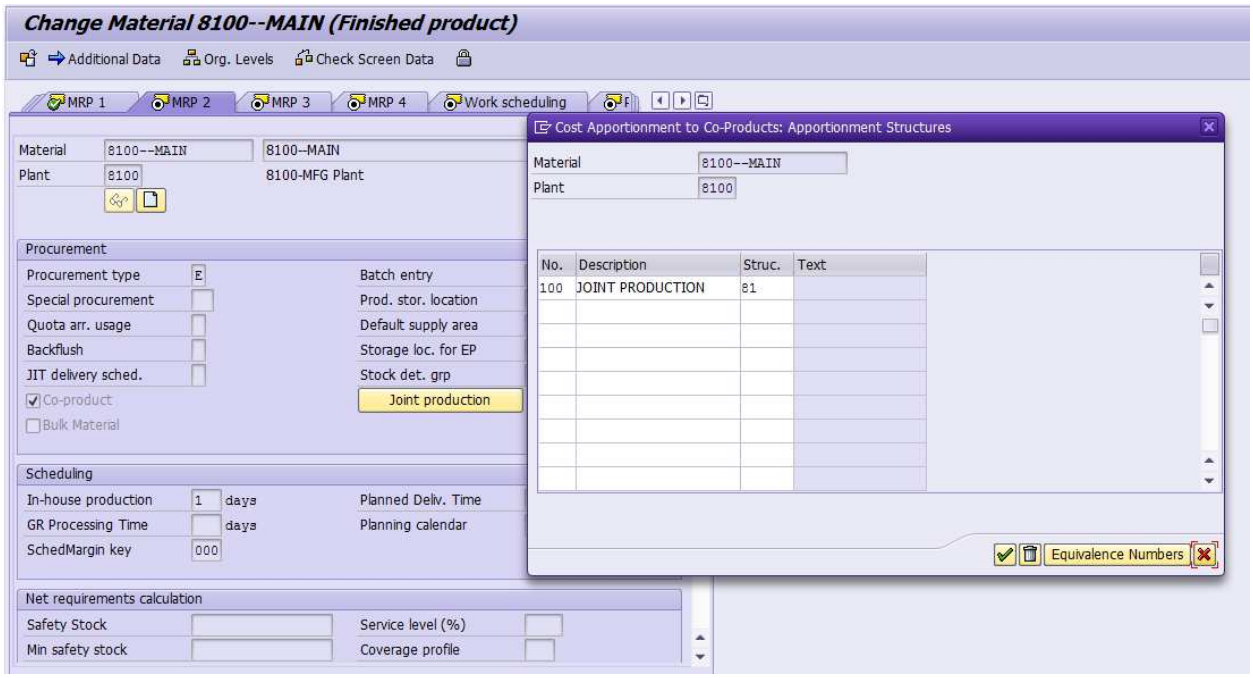


In Material, Joint production combination need to be maintained

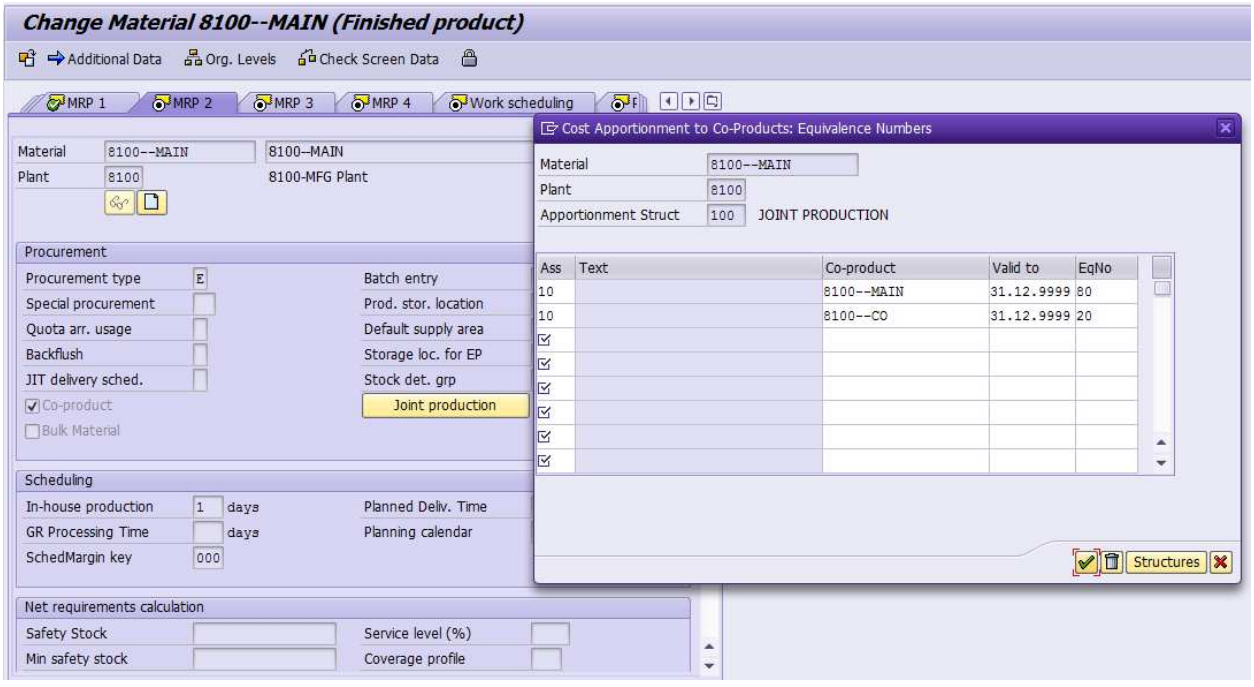
MM02-MRP2 tab



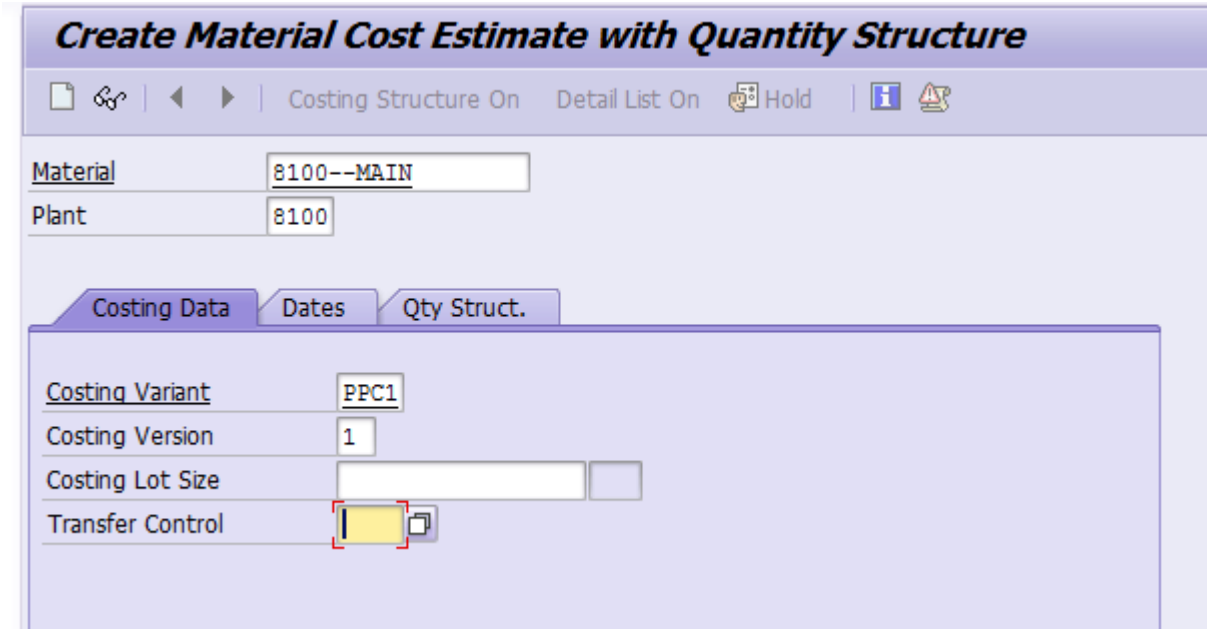
Maintain Cost apportionment Structure

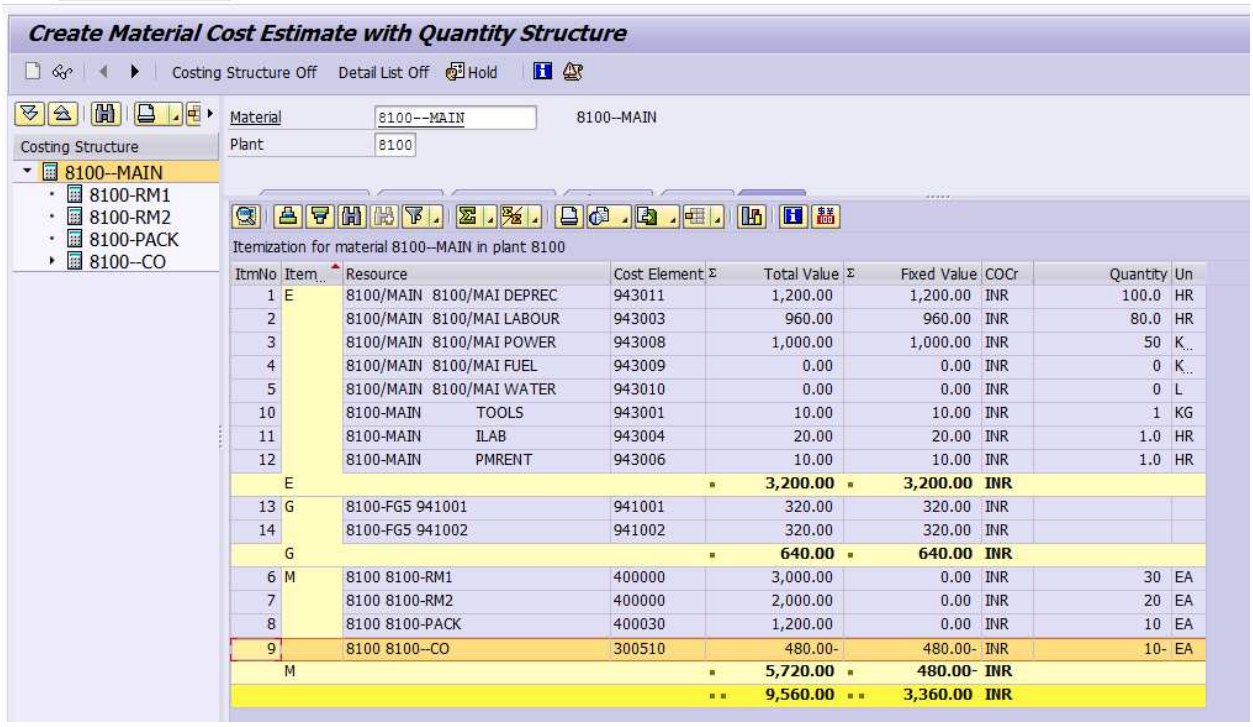


Maintain Equivalence numbers for all CO products



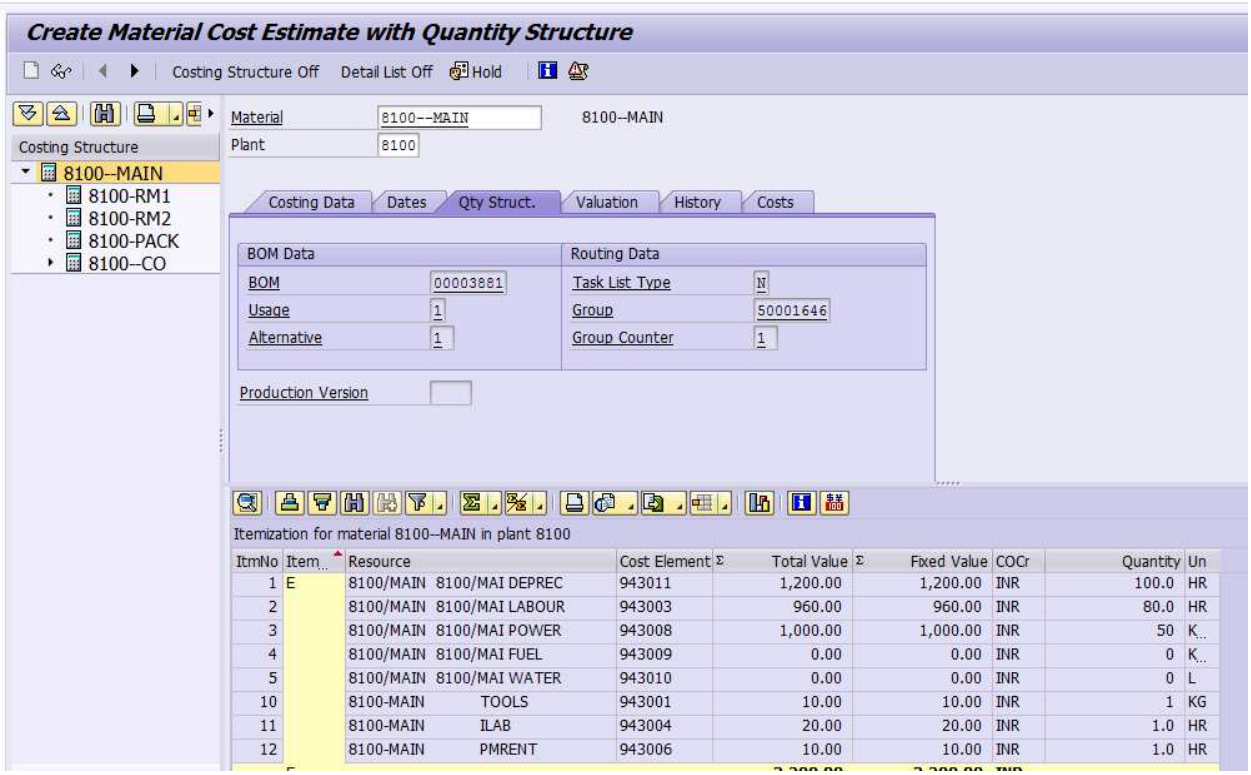
CK11N-Cost estimation with Qty Structure





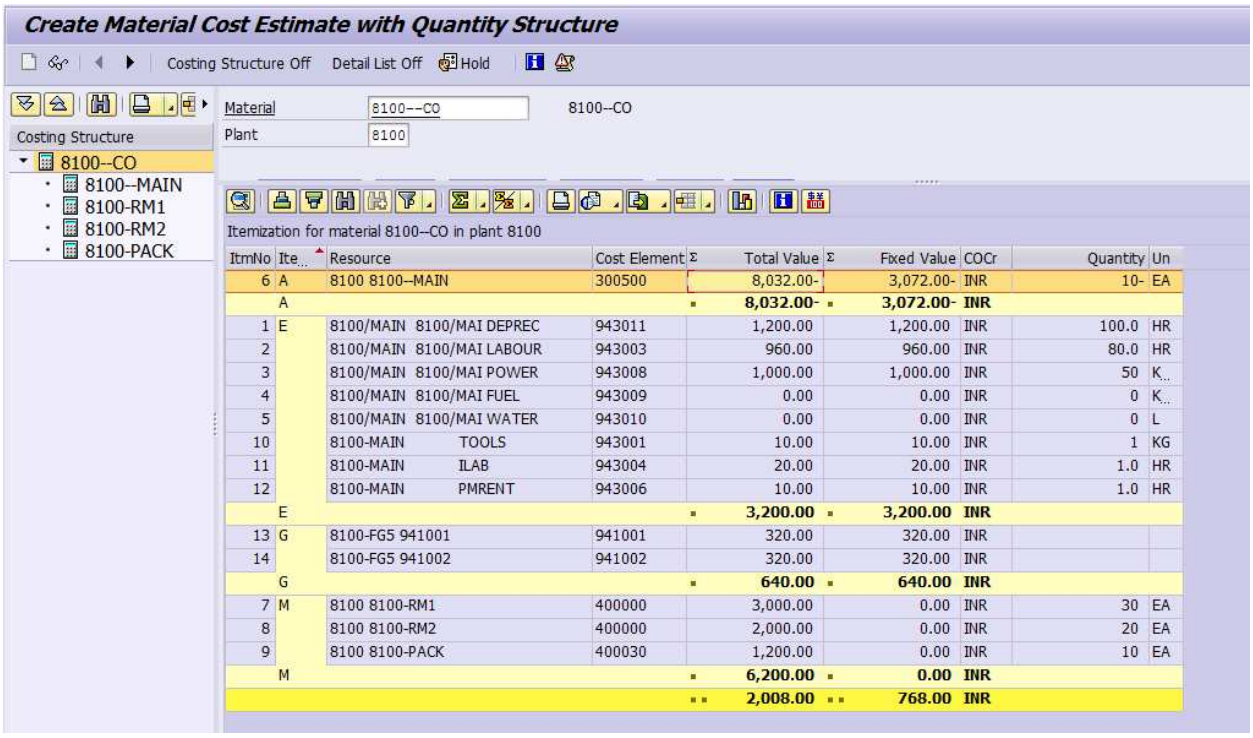
ItmNo	Item...	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	E	8100/MAIN 8100/MAI DEPREC	943011	1,200.00	1,200.00	INR	100.0	HR
2		8100/MAIN 8100/MAI LABOUR	943003	960.00	960.00	INR	80.0	HR
3		8100/MAIN 8100/MAI POWER	943008	1,000.00	1,000.00	INR	50	K...
4		8100/MAIN 8100/MAI FUEL	943009	0.00	0.00	INR	0	K...
5		8100/MAIN 8100/MAI WATER	943010	0.00	0.00	INR	0	L
10		8100-MAIN TOOLS	943001	10.00	10.00	INR	1	KG
11		8100-MAIN ILAB	943004	20.00	20.00	INR	1.0	HR
12		8100-MAIN PMRENT	943006	10.00	10.00	INR	1.0	HR
	E			**3,200.00**	**3,200.00**	**INR**		
13	G	8100-FG5 941001	941001	320.00	320.00	INR		
14		8100-FG5 941002	941002	320.00	320.00	INR		
	G			**640.00**	**640.00**	**INR**		
6	M	8100 8100-RM1	400000	3,000.00	0.00	INR	30	EA
7		8100 8100-RM2	400000	2,000.00	0.00	INR	20	EA
8		8100 8100-PACK	400030	1,200.00	0.00	INR	10	EA
9		8100 8100--CO	300510	480.00-	480.00-	INR	10-	EA
	M			**5,720.00**	**480.00-**	**INR**		
				9,560.00	**3,360.00**	**INR**		

For the Main Material BOM & Routing combination is coming



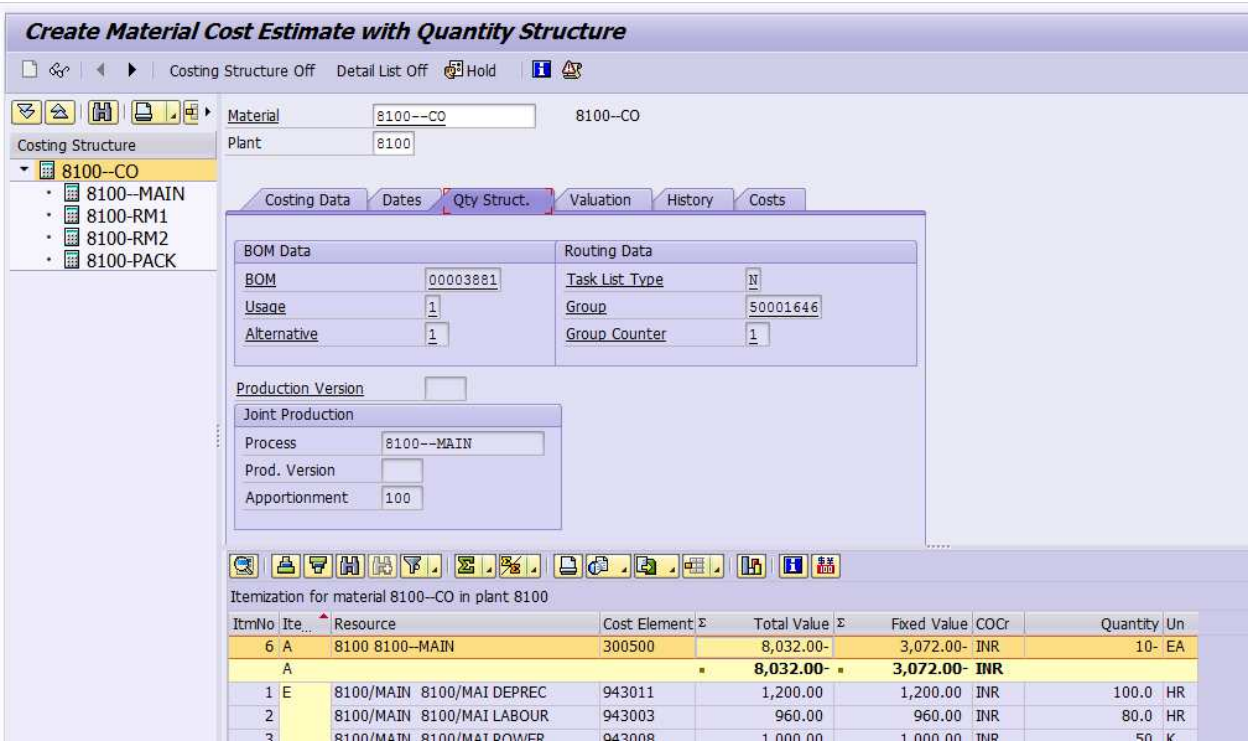
ItmNo	Item	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	E	8100/MAIN 8100/MAI DEPREC	943011	1,200.00	1,200.00	INR	100.0	HR
2		8100/MAIN 8100/MAI LABOUR	943003	960.00	960.00	INR	80.0	HR
3		8100/MAIN 8100/MAI POWER	943008	1,000.00	1,000.00	INR	50	K...
4		8100/MAIN 8100/MAI FUEL	943009	0.00	0.00	INR	0	K...
5		8100/MAIN 8100/MAI WATER	943010	0.00	0.00	INR	0	L
10		8100-MAIN TOOLS	943001	10.00	10.00	INR	1	KG
11		8100-MAIN ILAB	943004	20.00	20.00	INR	1.0	HR
12		8100-MAIN PMRENT	943006	10.00	10.00	INR	1.0	HR

CK11N-For CO product

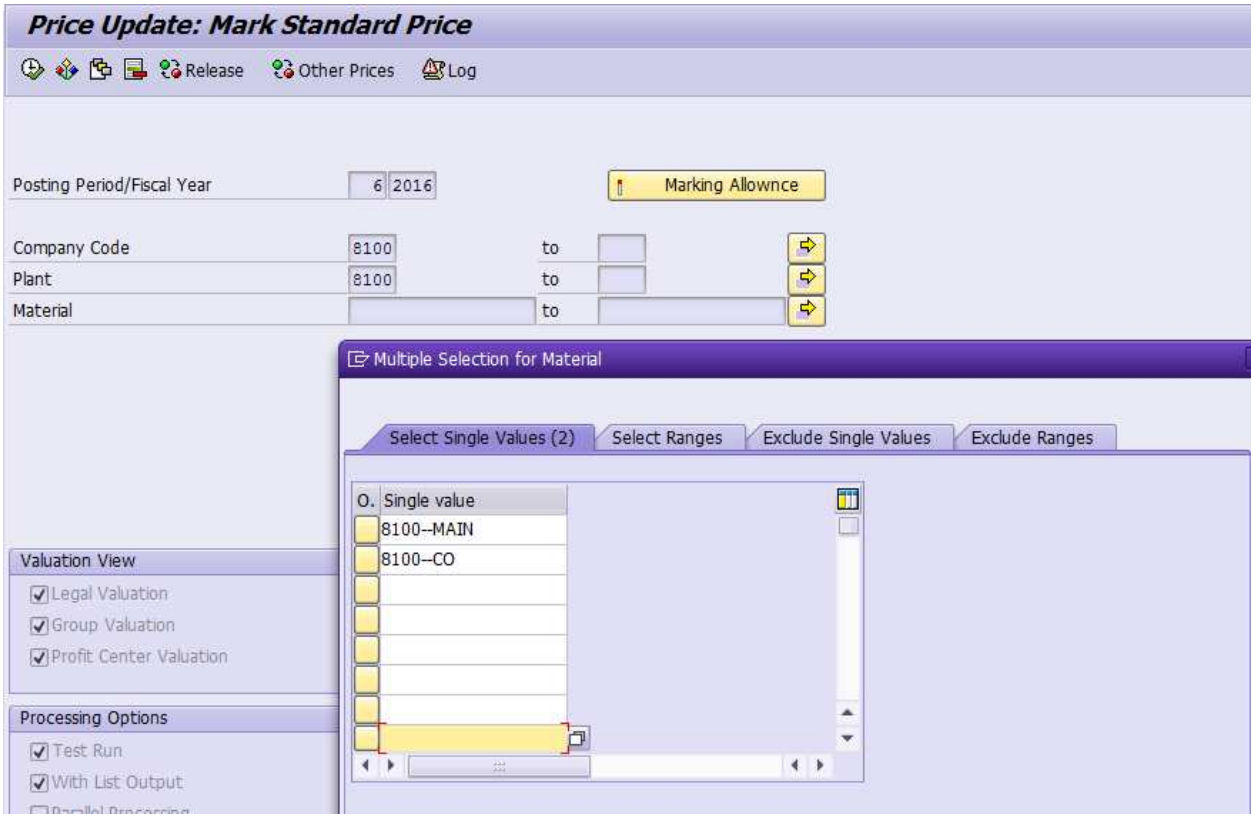


ItmNo	Ite...	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
6	A	8100 8100--MAIN	300500	8,032.00-	3,072.00-	INR	10-	EA
	A			**8,032.00-**	**3,072.00-**	**INR**		
1	E	8100/MAIN 8100/MAI DEPREC	943011	1,200.00	1,200.00	INR	100.0	HR
2		8100/MAIN 8100/MAI LABOUR	943003	960.00	960.00	INR	80.0	HR
3		8100/MAIN 8100/MAI POWER	943008	1,000.00	1,000.00	INR	50	K...
4		8100/MAIN 8100/MAI FUEL	943009	0.00	0.00	INR	0	K...
5		8100/MAIN 8100/MAI WATER	943010	0.00	0.00	INR	0	L
10		8100-MAIN TOOLS	943001	10.00	10.00	INR	1	KG
11		8100-MAIN ILAB	943004	20.00	20.00	INR	1.0	HR
12		8100-MAIN PMRENT	943006	10.00	10.00	INR	1.0	HR
	E			**3,200.00**	**3,200.00**	**INR**		
13	G	8100-FG5 941001	941001	320.00	320.00	INR		
14		8100-FG5 941002	941002	320.00	320.00	INR		
	G			**640.00**	**640.00**	**INR**		
7	M	8100 8100-RM1	400000	3,000.00	0.00	INR	30	EA
8		8100 8100-RM2	400000	2,000.00	0.00	INR	20	EA
9		8100 8100-PACK	400030	1,200.00	0.00	INR	10	EA
	M			**6,200.00**	**0.00**	**INR**		
				2,008.00	**768.00**	**INR**		

We can see Joint production data is coming for CO product



CK24-Marking & Release



Price Update: Mark Standard Price

Ex...	Material	Plant	Valuation Type	Costin...	Σ Fut. plnd price	Standard price	Pr
	8100--CO	8100		VO	200.80	0.00	
	8100--MAIN	8100		VO	956.00	0.00	
					1,156.80		

Price Update: Release Standard Price

Ex...	Material	Plant	Valuation Type	Costin...	Standard price	Price Unit	Currency
	8100--CO	8100		FR	200.80	1	INR
	8100--MAIN	8100		FR	956.00	1	INR

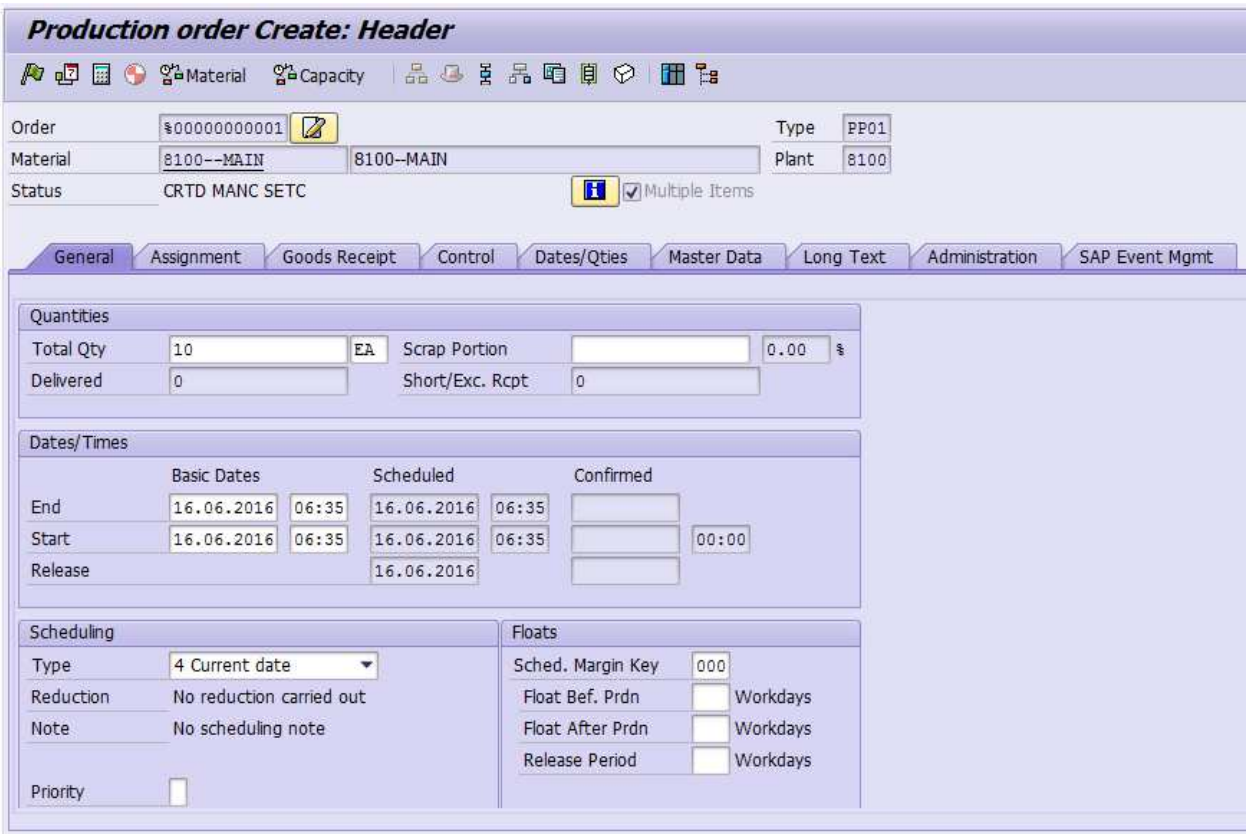
CO01-Production Order Creation

Production Order Create: Initial Screen

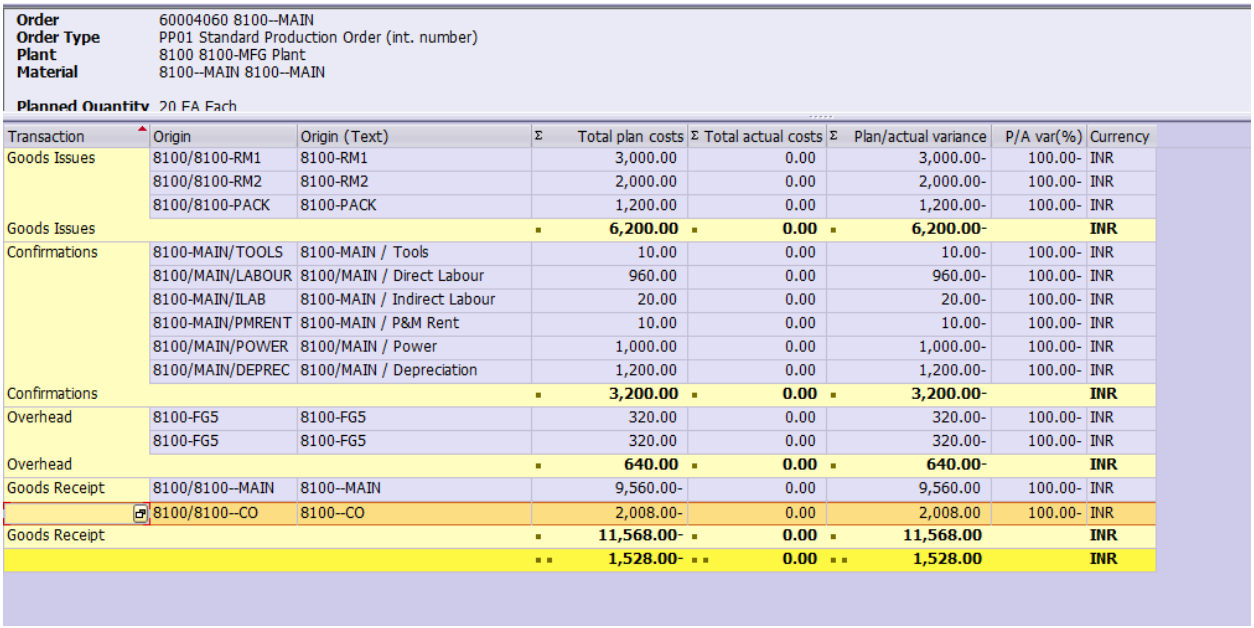
Material	8100--MAIN	
Production Plant	8100	8100-MFG Plant
Planning Plant		
Order Type	PP01	Standard Production Order (int. number)
Order		

Copy from

Order		



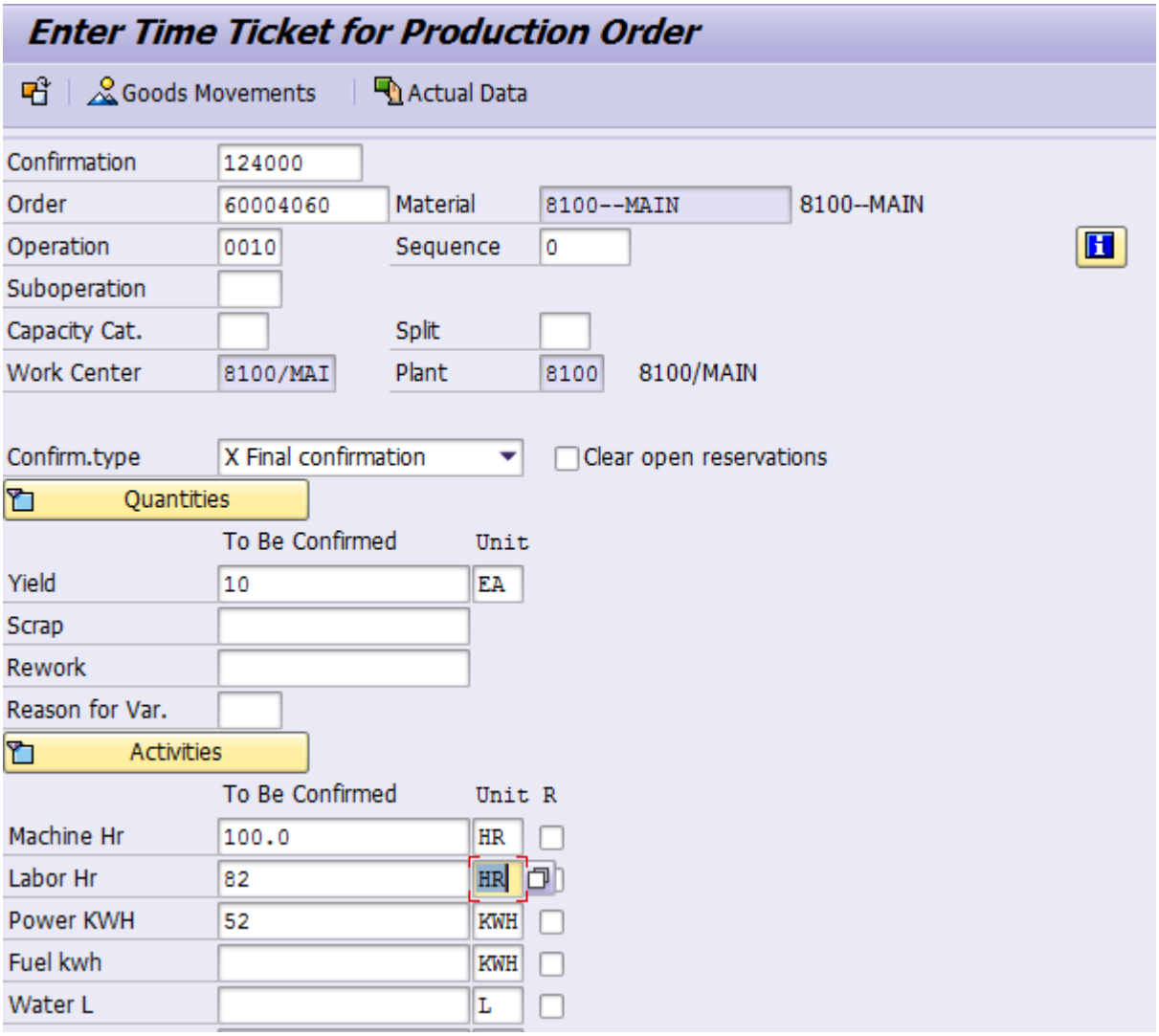
Cost Trend-CO product material will come Goods receipt line.

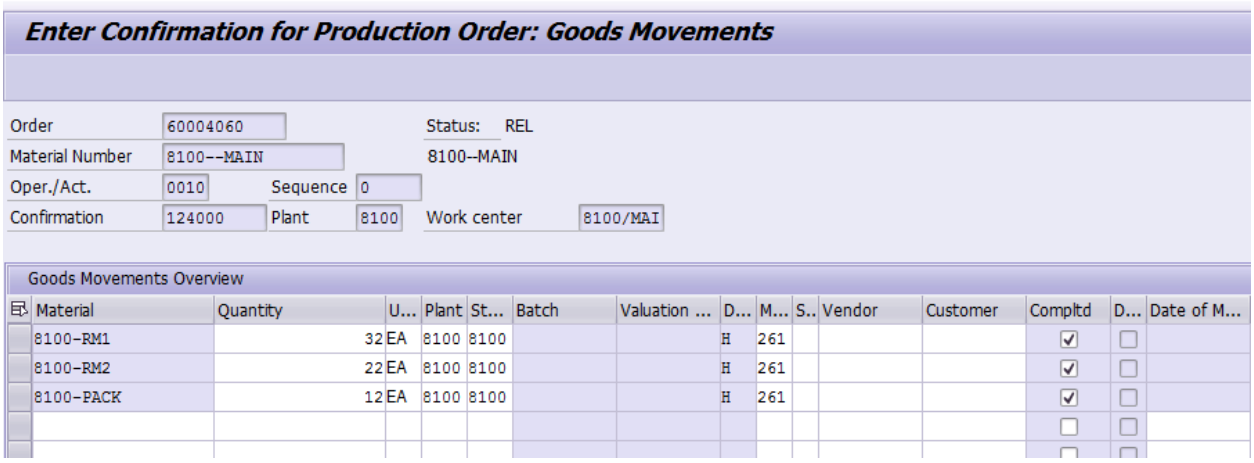


Order 60004060 8100--MAIN
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100--MAIN 8100--MAIN
Planned Quantity 20 EA Each

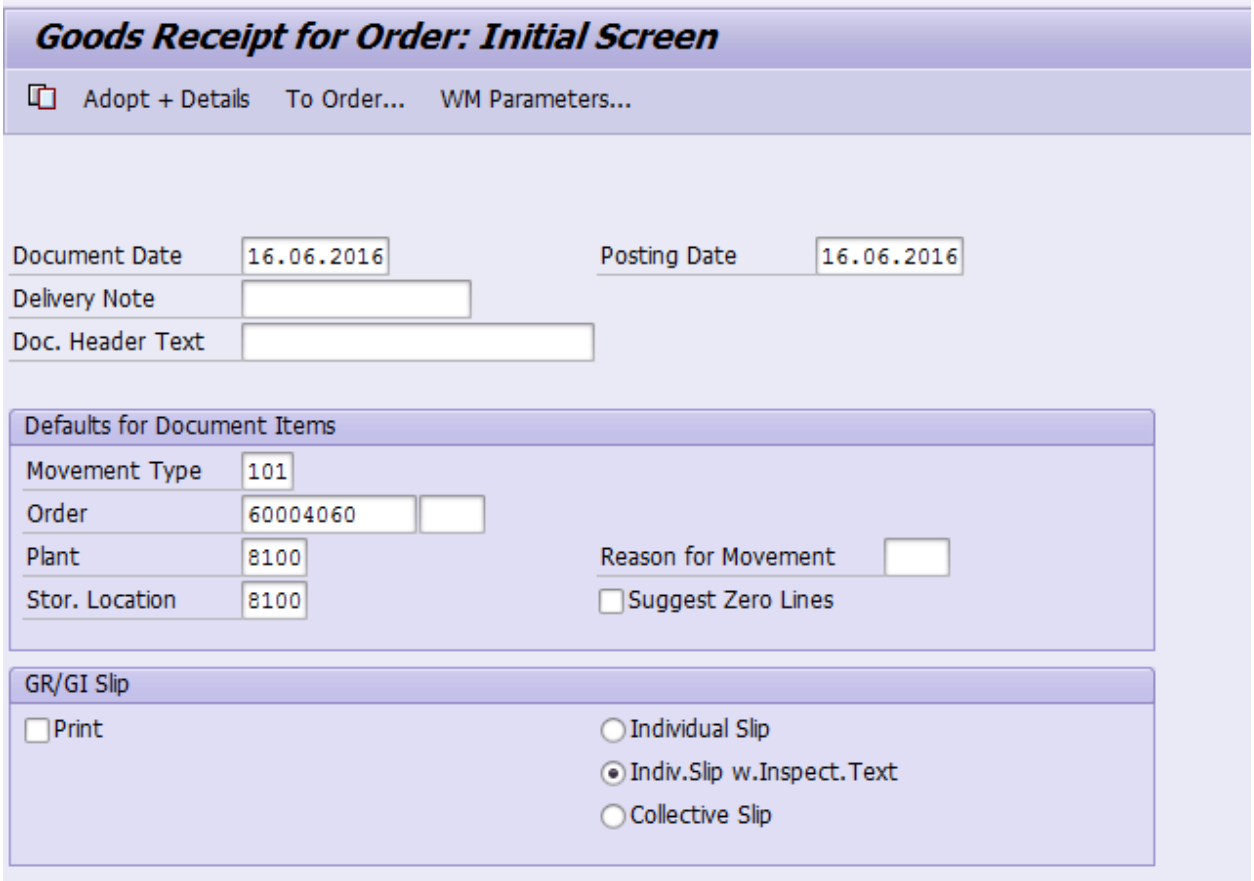
Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	3,000.00	0.00	3,000.00-	100.00-	INR
	8100/8100-RM2	8100-RM2	2,000.00	0.00	2,000.00-	100.00-	INR
	8100/8100-PACK	8100-PACK	1,200.00	0.00	1,200.00-	100.00-	INR
Goods Issues			**6,200.00**	**0.00**	**6,200.00-**		**INR**
Confirmations	8100-MAIN/TOOLS	8100-MAIN / Tools	10.00	0.00	10.00-	100.00-	INR
	8100/MAIN/LABOUR	8100/MAIN / Direct Labour	960.00	0.00	960.00-	100.00-	INR
	8100-MAIN/ILAB	8100-MAIN / Indirect Labour	20.00	0.00	20.00-	100.00-	INR
	8100-MAIN/PMRENT	8100-MAIN / P&M Rent	10.00	0.00	10.00-	100.00-	INR
	8100/MAIN/POWER	8100/MAIN / Power	1,000.00	0.00	1,000.00-	100.00-	INR
	8100/MAIN/DEPREC	8100/MAIN / Depreciation	1,200.00	0.00	1,200.00-	100.00-	INR
Confirmations			**3,200.00**	**0.00**	**3,200.00-**		**INR**
Overhead	8100-FG5	8100-FG5	320.00	0.00	320.00-	100.00-	INR
	8100-FG5	8100-FG5	320.00	0.00	320.00-	100.00-	INR
Overhead			**640.00**	**0.00**	**640.00-**		**INR**
Goods Receipt	8100/8100--MAIN	8100--MAIN	9,560.00-	0.00	9,560.00	100.00-	INR
	8100/8100--CO	8100--CO	2,008.00-	0.00	2,008.00	100.00-	INR
Goods Receipt			**11,568.00-**	**0.00**	**11,568.00**		**INR**
			1,528.00-	**0.00**	**1,528.00**		**INR**

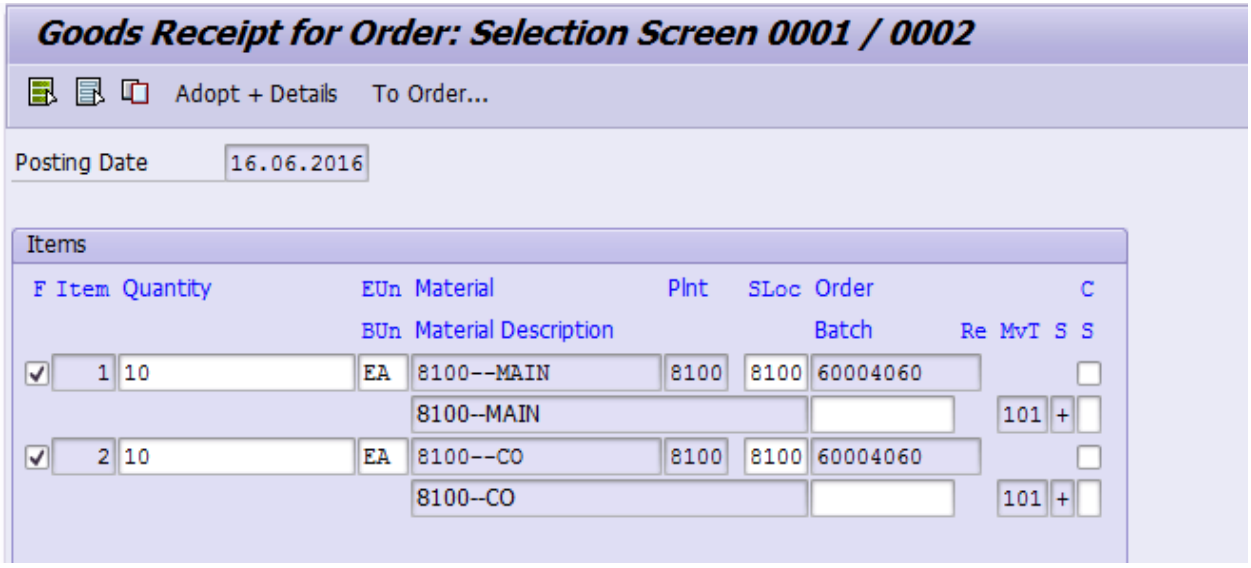
CO11N-Prodution Order Confirmation





Goods Receipt-MB31





Cost Trend

Order 60004060 8100--MAIN
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100--MAIN 8100--MAIN

Planned Quantity 20 EA Each
Actual Quantity 20 EA Each

Transaction	Origin	Origin (Text)	Total plan	Ttl actual csts	Variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	3,000.00	3,200.00	200.00	6.67	INR
	8100/8100-RM2	8100-RM2	2,000.00	2,200.00	200.00	10.00	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**6,200.00**	**6,840.00**	**640.00**		**INR**
Confirmations	8100-MAIN/TOOLS	8100-MAIN / Tools	10.00	0.00	10.00-	100.00-	INR
	8100/MAIN/LABOUR	8100/MAIN / Direct Labour	960.00	984.00	24.00	2.50	INR
	8100-MAIN/ILAB	8100-MAIN / Indirect Labour	20.00	0.00	20.00-	100.00-	INR
	8100-MAIN/PMRENT	8100-MAIN / P&M Rent	10.00	0.00	10.00-	100.00-	INR
	8100/MAIN/POWER	8100/MAIN / Power	1,000.00	1,040.00	40.00	4.00	INR
	8100/MAIN/DEPREC	8100/MAIN / Depreciation	1,200.00	1,200.00	0.00		INR
Confirmations			**3,200.00**	**3,224.00**	**24.00**		**INR**
Overhead	8100-FG5	8100-FG5	320.00	0.00	320.00-	100.00-	INR
	8100-FG5	8100-FG5	320.00	0.00	320.00-	100.00-	INR
Overhead			**640.00**	**0.00**	**640.00-**		**INR**
Goods Receipt	8100/8100--MAIN	8100--MAIN	9,560.00-	9,560.00-	0.00		INR
	8100/8100--CO	8100--CO	2,008.00-	2,008.00-	0.00		INR
Goods Receipt			**11,568.00-**	**11,568.00-**	**0.00**		**INR**
			1,528.00-	**1,504.00-**	**24.00**		**INR**

Template Allocation-CPTA - Individual Processing

Actual Template Allocation: Order

Order 60004060

Parameters

Version 0 Plan/Act - Version
Period 6 To 6
Fiscal Year 2016

Processing Options

- [ ] Background Processing
- [ ] Test Run
- [x] Detail Lists
- [ ] Messages from Object Selection Separate

Actual Template Allocation: Order

Result

Processing completed with no errors

Receiver Object	Sender object	Alloc. CElem	Total fixed/var. qty	UoM	Σ Ttl Fx+Vbl value CAC	COCr	Template
ORD 60004060	ATY 8100-MAIN/ILAB	943004	2.0	HR	40.00	INR	8100-MAIN
	ATY 8100-MAIN/PMRENT	943006	2.0	HR	20.00	INR	8100-MAIN
	ATY 8100-MAIN/TOOLS	943001	2	KG	20.00	INR	8100-MAIN
ORD 60004060					**80.00**	**INR**	
					80.00	**INR**	

Overhead-KGI2 - Individual Processing

Actual Overhead Calculation: Order

Order 60004060

Parameters

Period 6

Fiscal Year 2016

Processing Options

☐ Test Run

☑ Dialog display

Display ORD 60004060 6/2016: Item - Conditions

Item 1

View 1 Pricing Elements: Table

Quantity 0.000

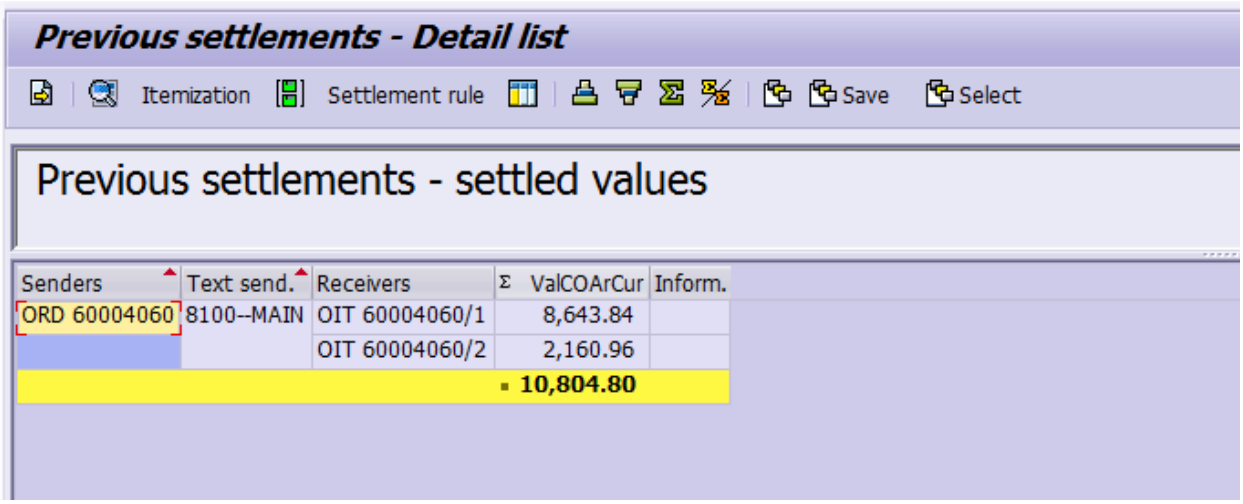
Net 3,964.80 INR

Tax 0.00

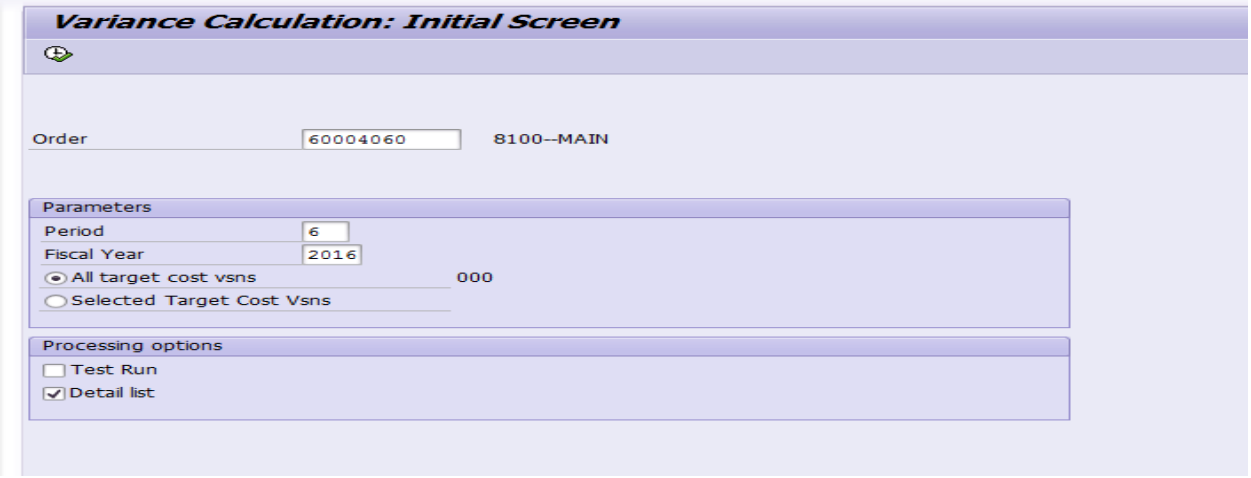
Pricing Elements

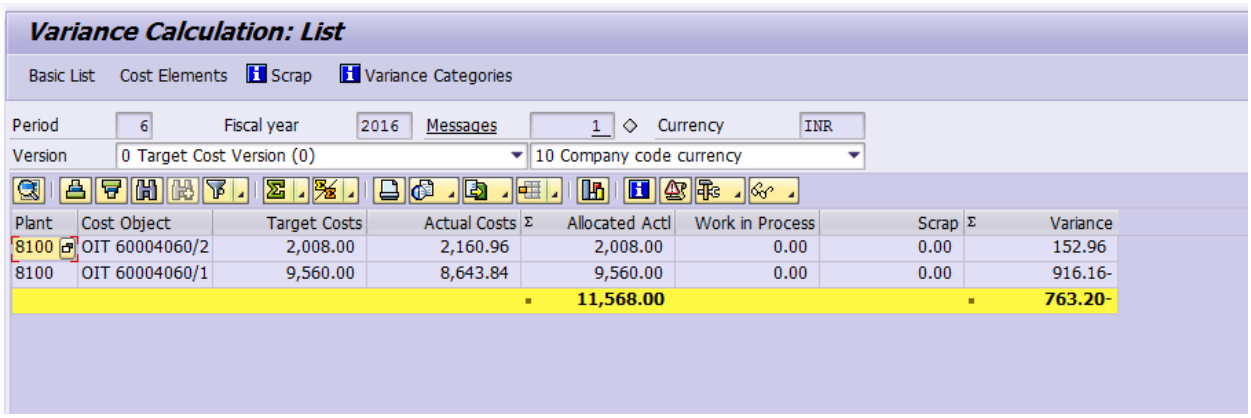
N..	CnTy	Name	Amount	Crcy	per	U...	Condition value	Curr.	Status	Num...	OUn	CCon...	Un	Condition value	CdCur
	81-2	Converstion Costs					3,304.00	INR		0		0		0.00	
	81-3	Quality Control Cost	10.000	%			330.40	INR		0		0		0.00	
	81-4	Research & Dev Cost	10.000	%			330.40	INR		0		0		0.00	
		COGM	0.00	INR	1		3,964.80	INR		0		0		0.00	

Preliminary Settlement for Co-Products, Rework- CO8B - Individual Processing



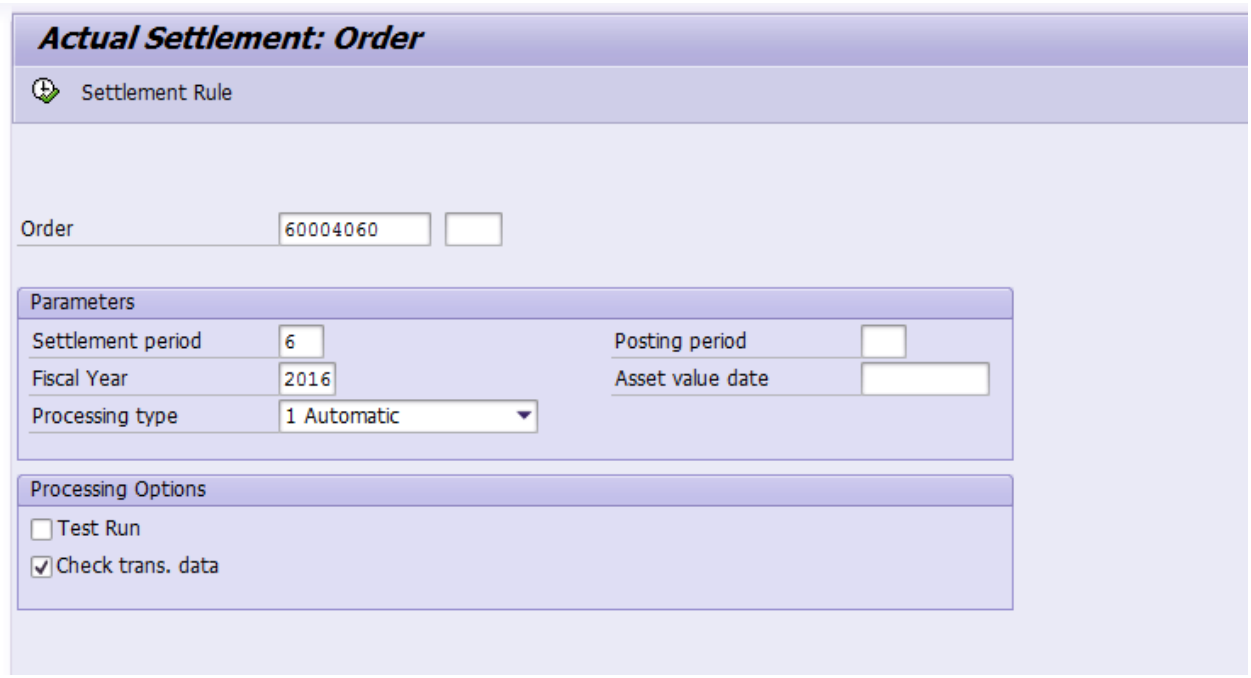
Variances - KKS2 - Individual Processing

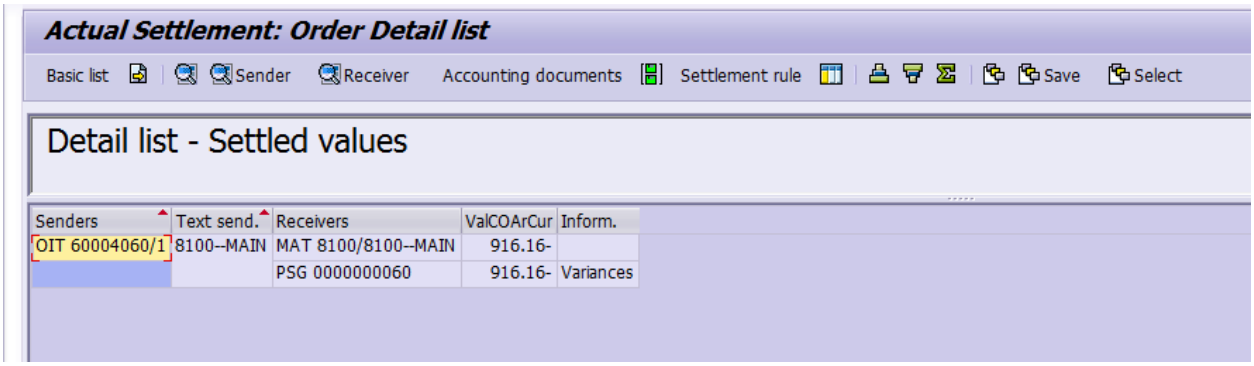




Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
8100	OIT 60004060/2	2,008.00	2,160.96	2,008.00	0.00	0.00	152.96
8100	OIT 60004060/1	9,560.00	8,643.84	9,560.00	0.00	0.00	916.16-
				11,568.00			**763.20-**

Settlement - KO88 - Individual Processing





Senders	Text send.	Receivers	ValCOArCur	Inform.
OIT 60004060/1	8100--MAIN	MAT 8100/8100--MAIN	916.16-	
		PSG 0000000060	916.16-	Variances

CO03-Cost Trend

Order 60004060 8100--MAIN
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100--MAIN 8100--MAIN

Planned Quantity 20 EA Each
Actual Quantity 20 EA Each

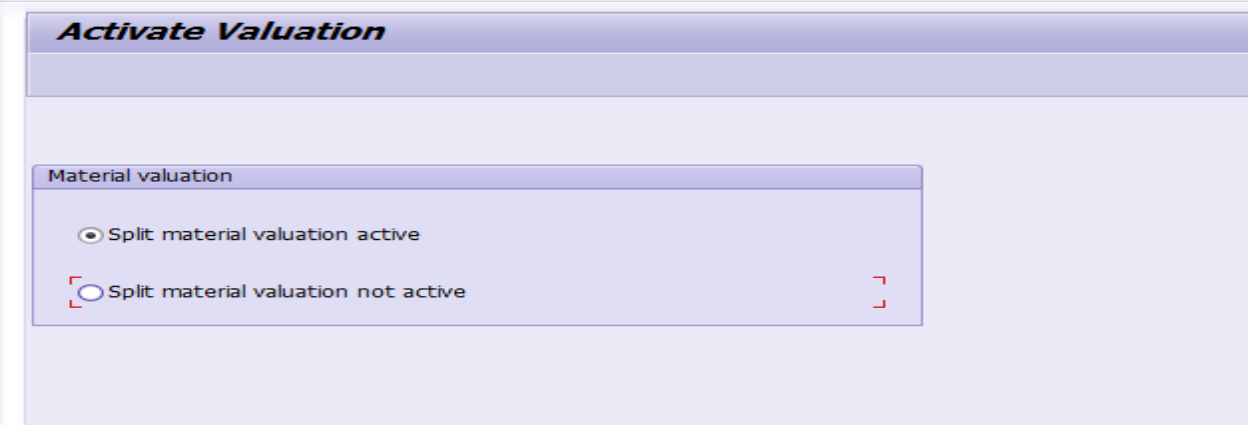
Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		3,000.00		3,200.00		200.00	6.67	INR
	8100/8100-RM2	8100-RM2		2,000.00		2,200.00		200.00	10.00	INR
	8100/8100-PACK	8100-PACK		1,200.00		1,440.00		240.00	20.00	INR
Goods Issues			▪	**6,200.00**	▪	**6,840.00**	▪	**640.00**		**INR**
Confirmations	8100-MAIN/TO...	8100-MAIN / Tools		10.00		20.00		10.00	100.00	INR
	8100/MAIN/LA...	8100/MAIN / Direct Labour		960.00		984.00		24.00	2.50	INR
	8100-MAIN/ILAB	8100-MAIN / Indirect Labour		20.00		40.00		20.00	100.00	INR
	8100-MAIN/PM...	8100-MAIN / P&M Rent		10.00		20.00		10.00	100.00	INR
	8100/MAIN/PO...	8100/MAIN / Power		1,000.00		1,040.00		40.00	4.00	INR
	8100/MAIN/DE...	8100/MAIN / Depreciation		1,200.00		1,200.00		0.00		INR
Confirmations			▪	**3,200.00**	▪	**3,304.00**	▪	**104.00**		**INR**
Overhead	8100-FG5	8100-FG5		320.00		330.40		10.40	3.25	INR
	8100-FG5	8100-FG5		320.00		330.40		10.40	3.25	INR
Overhead			▪	**640.00**	▪	**660.80**	▪	**20.80**		**INR**
Goods Receipt	8100/8100--MA...	8100--MAIN		9,560.00-		9,560.00-		0.00		INR
	8100/8100--CO	8100--CO		2,008.00-		2,008.00-		0.00		INR
Goods Receipt			▪	**11,568.00-**	▪	**11,568.00-**	▪	**0.00**		**INR**
Settlement		(without origin)		0.00		763.20		763.20		INR
Settlement			▪	**0.00**	▪	**763.20**	▪	**763.20**		**INR**
			▪▪	**1,528.00-**	▪▪	**0.00**	▪▪	**1,528.00**		**INR**

Split Valuation Costing process

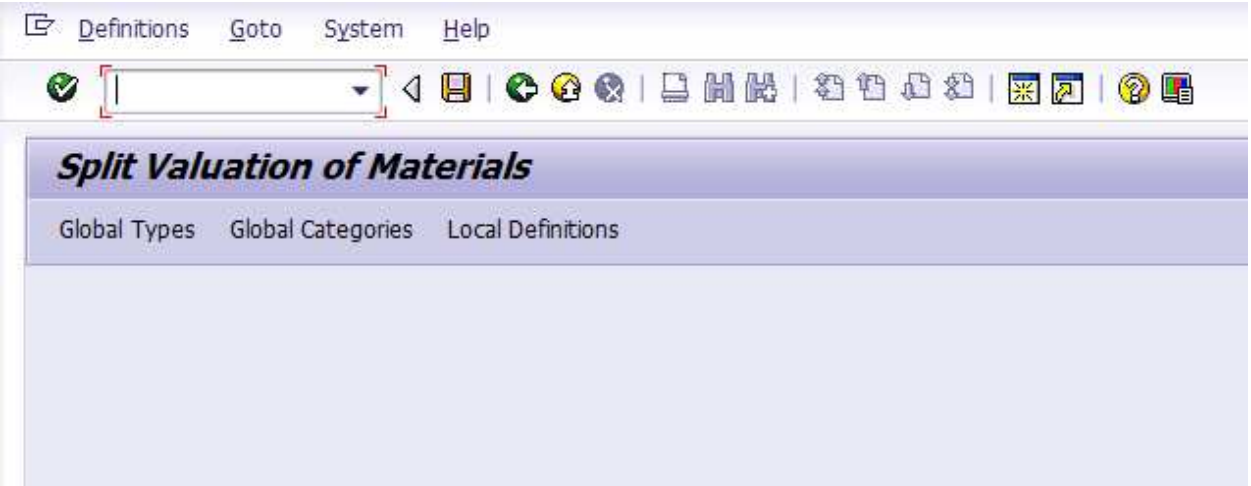
1) Multiple procure process for Raw Materials

Split Valuation Configuration

Activate Split Valuation-OMW0



OMWC



Click on Global types

Create 6 Valuation types

2 for Raw material, 2 for Semi finished Product and 2 for finished product.

8100-DOM: Domestic Purchase

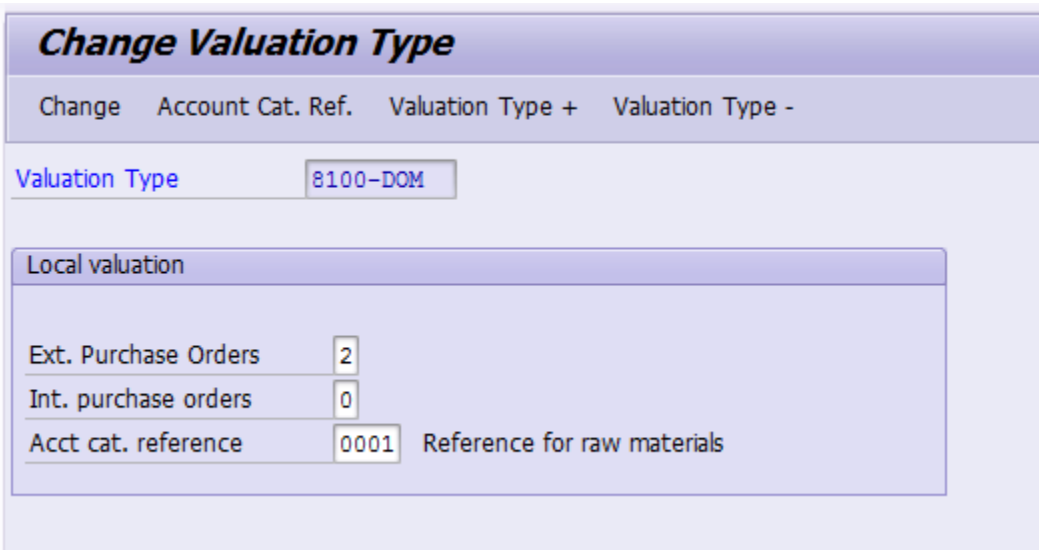
8100-IMP: Import Purchase

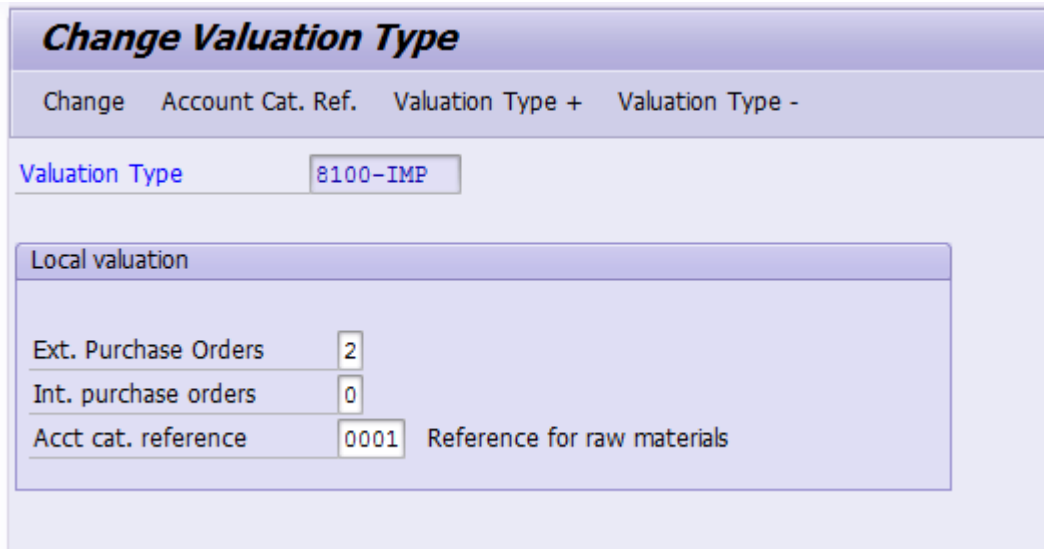
8100-Pur: SFG Purchase

8100-MFG: SFG Manufacturing

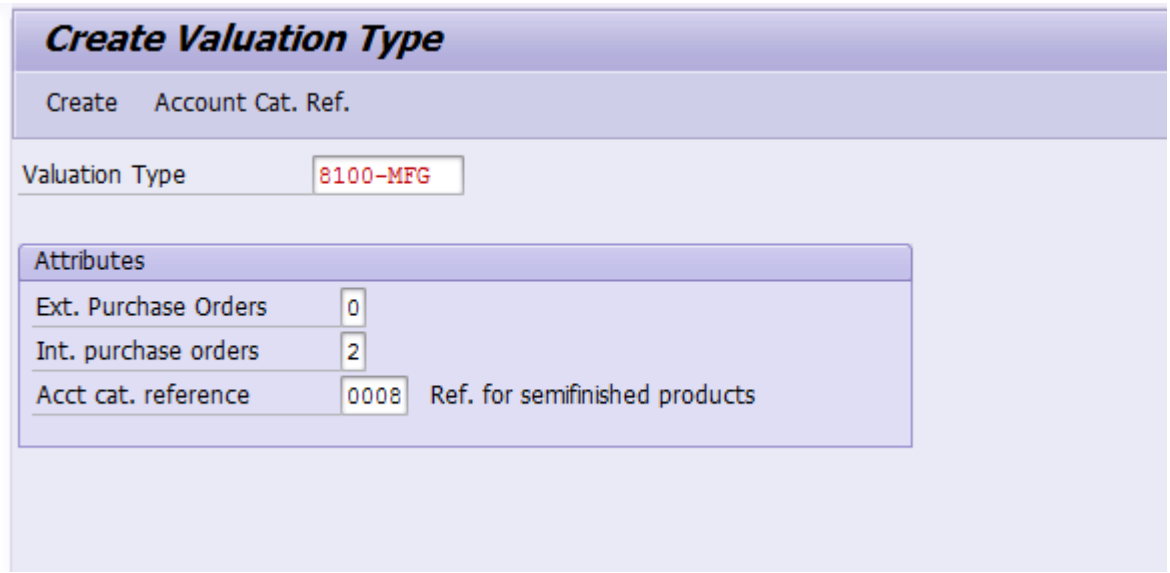
8100-LINE1: Line 1 Mfg proess

8100-LINE2: Line 2 Mfg proess

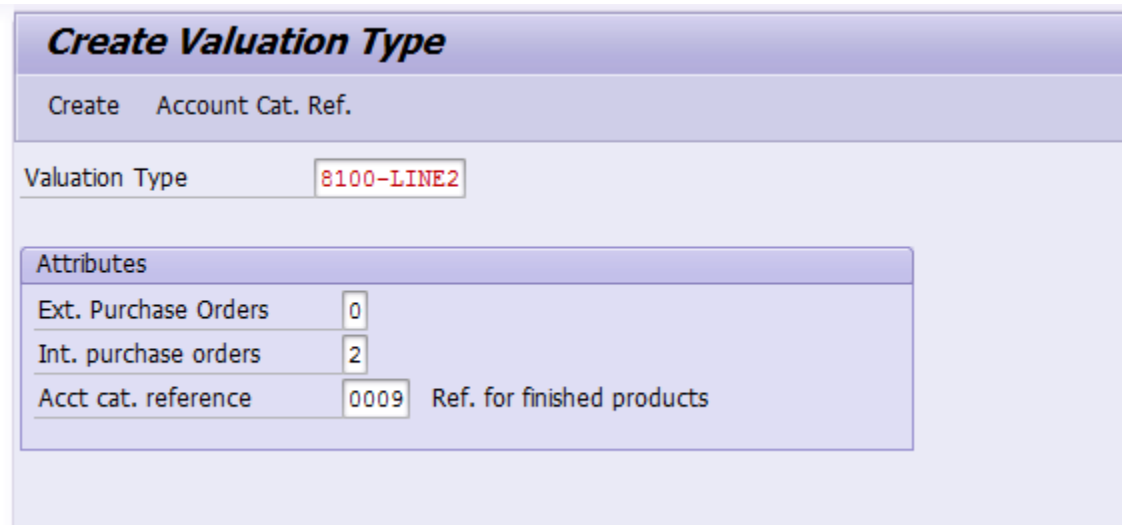

Change Valuation Type
Change
Account Cat. Ref.
Valuation Type +
Valuation Type -
Valuation Type
8100-DOM
Local valuation
Ext. Purchase Orders
2
Int. purchase orders
0
Acct cat. reference
0001
Reference for raw materials


Change Valuation Type
Change
Account Cat. Ref.
Valuation Type +
Valuation Type -
Valuation Type
8100-IMP
Local valuation
Ext. Purchase Orders
2
Int. purchase orders
0
Acct cat. reference
0001
Reference for raw materials

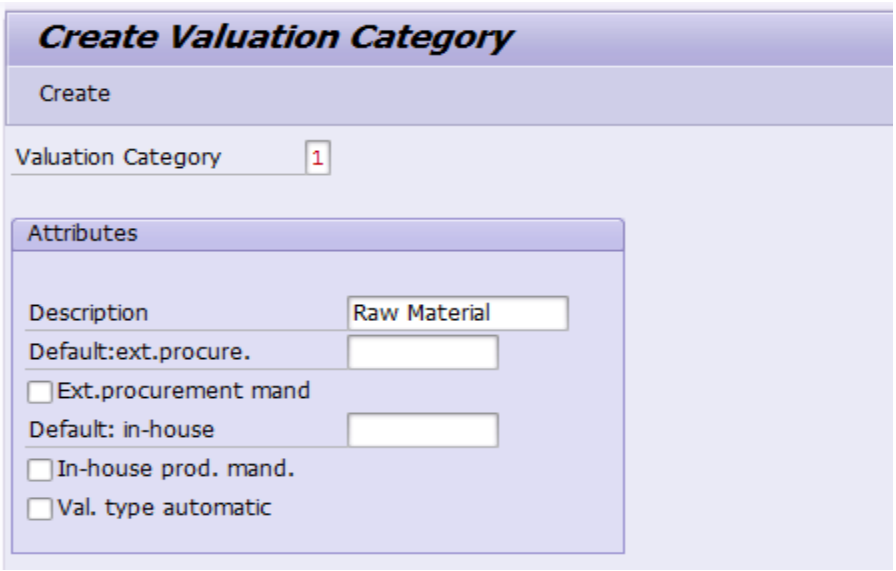
Create Valuation Type
Create
Account Cat. Ref.
Valuation Type
8100-PUR
Attributes
Ext. Purchase Orders
2
Int. purchase orders
0
Acct cat. reference
0008
Ref. for semifinished products

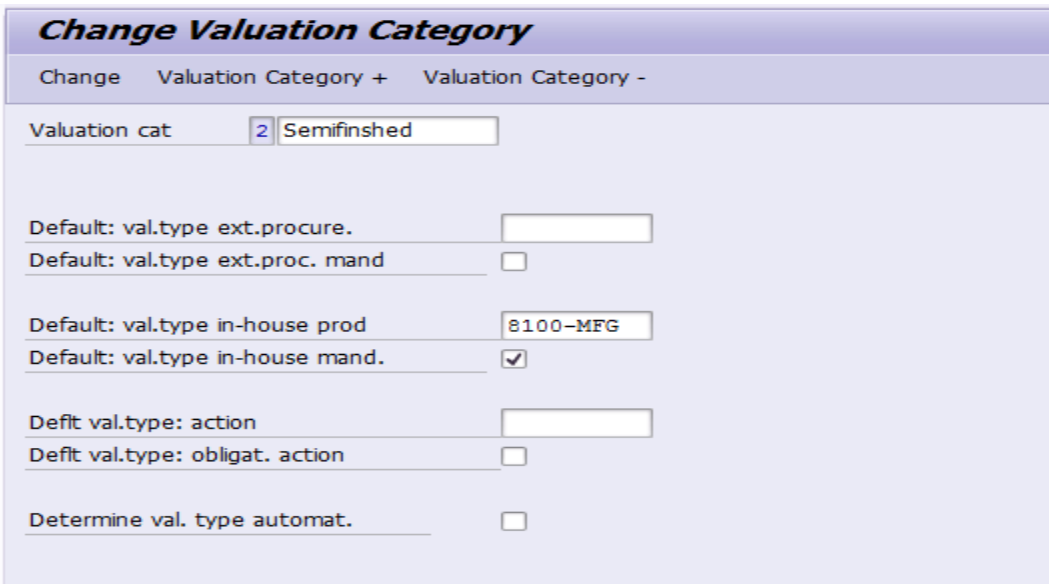

Create Valuation Type
Create
Account Cat. Ref.
Valuation Type
8100-MFG
Attributes
Ext. Purchase Orders
0
Int. purchase orders
2
Acct cat. reference
0008
Ref. for semifinished products

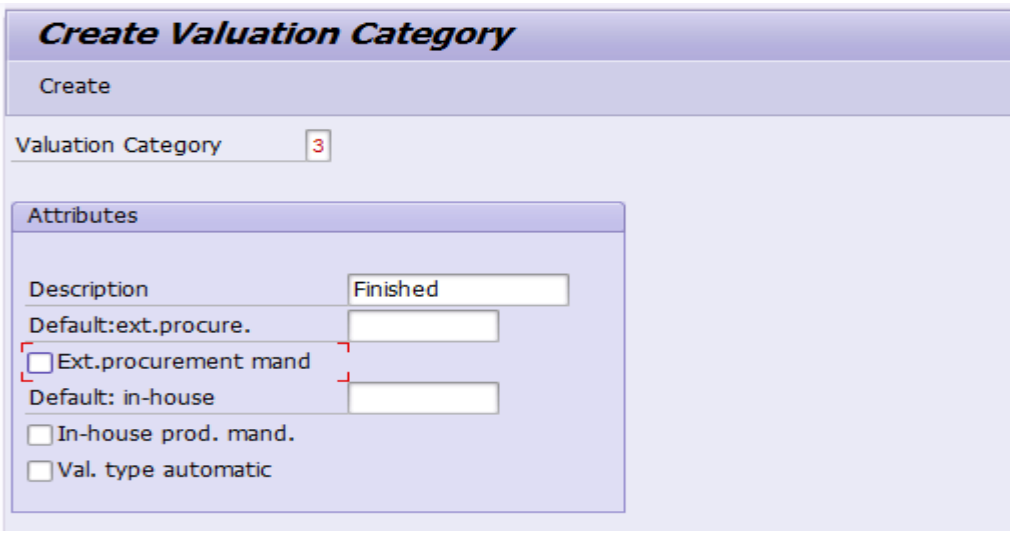
Create Valuation Type
Create
Account Cat. Ref.
Valuation Type
8100-LINE1
Attributes
Ext. Purchase Orders
0
Int. purchase orders
2
Acct cat. reference
0009
Ref. for finished products


Create Valuation Type
Create
Account Cat. Ref.
Valuation Type
8100-LINE2
Attributes
Ext. Purchase Orders
0
Int. purchase orders
2
Acct cat. reference
0009
Ref. for finished products

Click on Global Categories



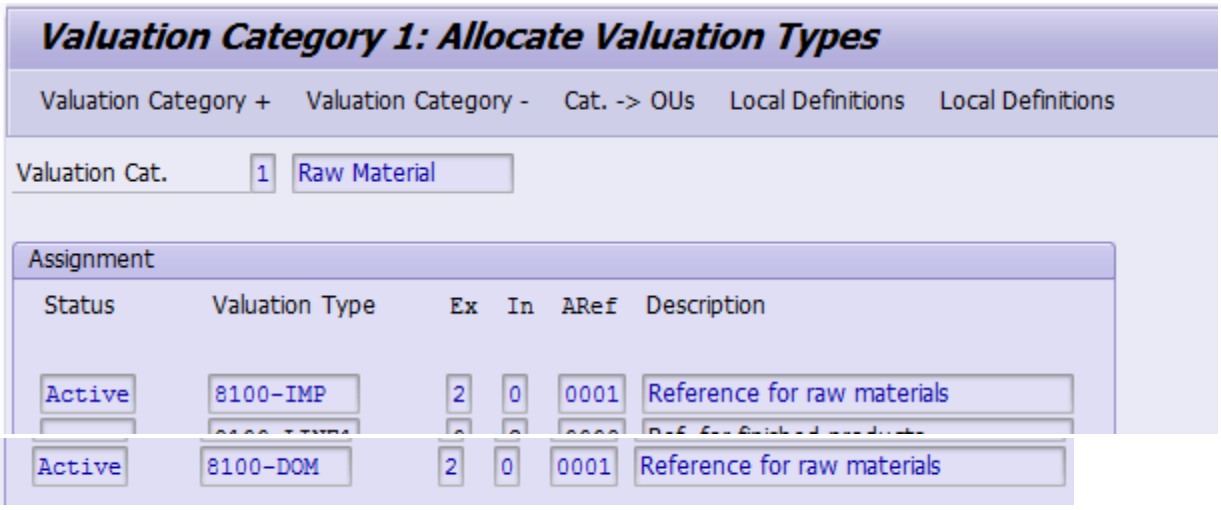


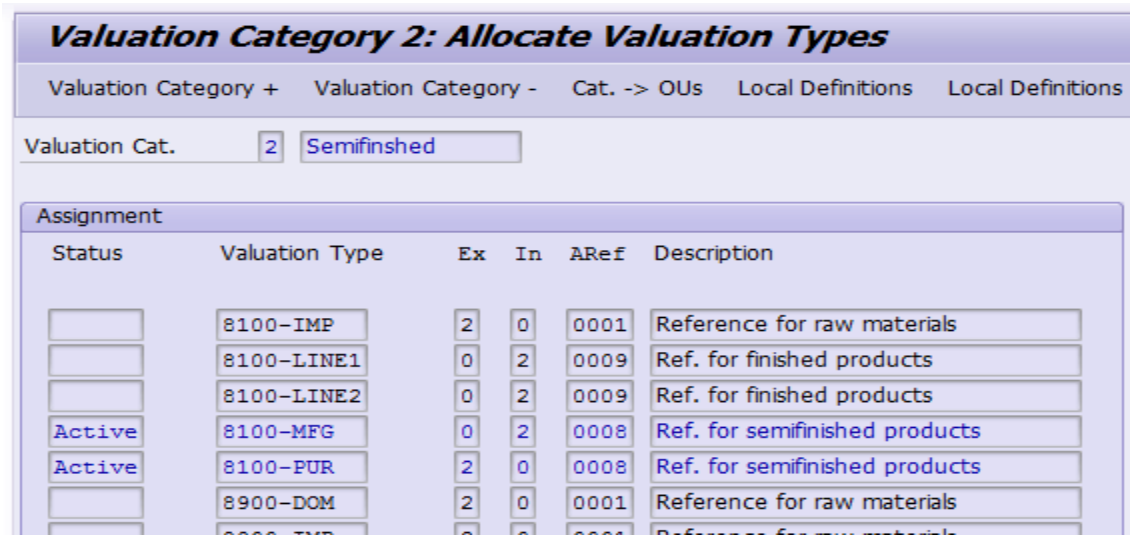


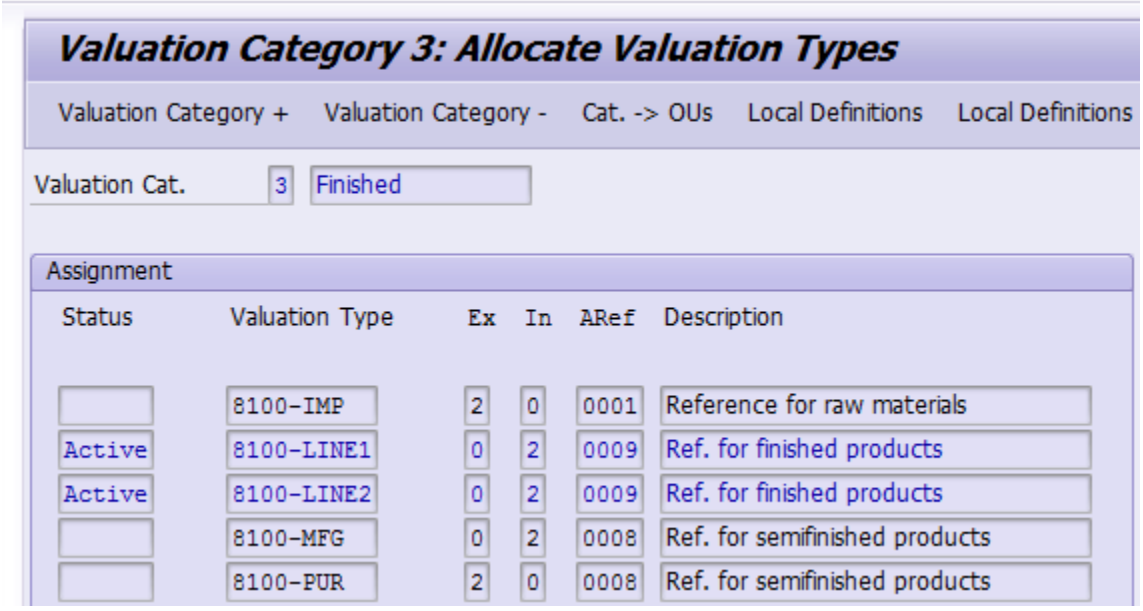
Create and SAVE.

Then come back one step and click on Local Definitions

Select Valuation Category 1,2 and 3 and then activate.

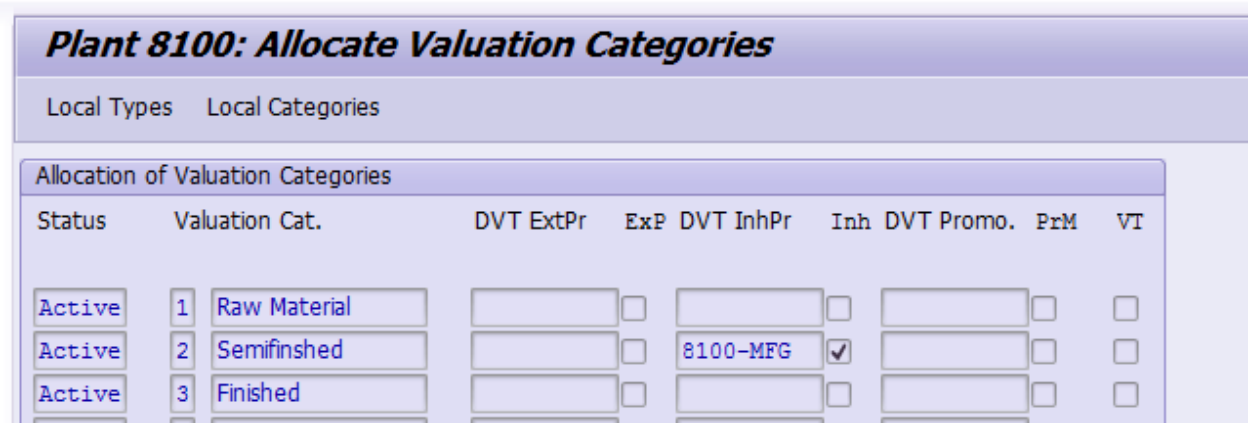


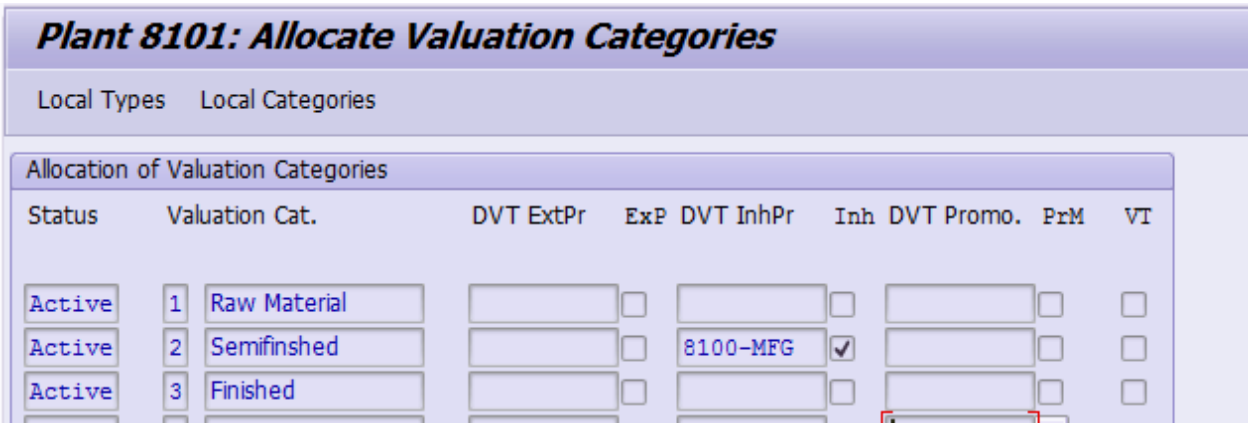




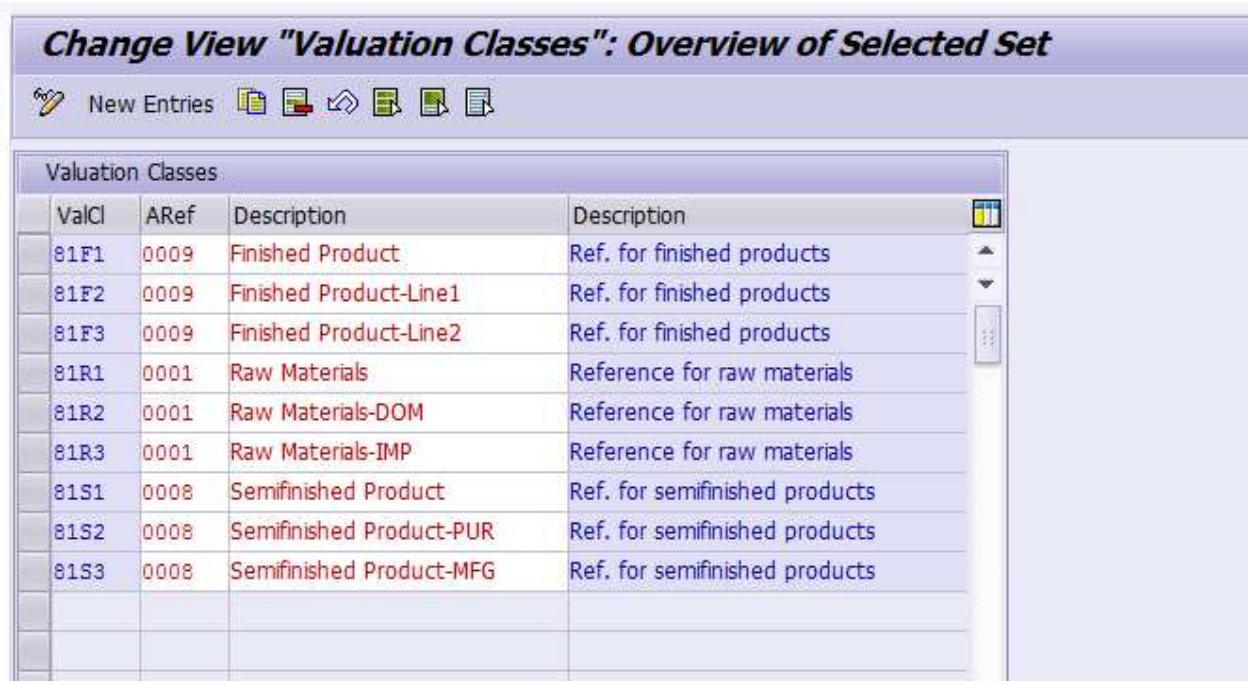
Select Plants and click on category (F7)

Select 1,2 and 3 Valuation Category and click on activate button.



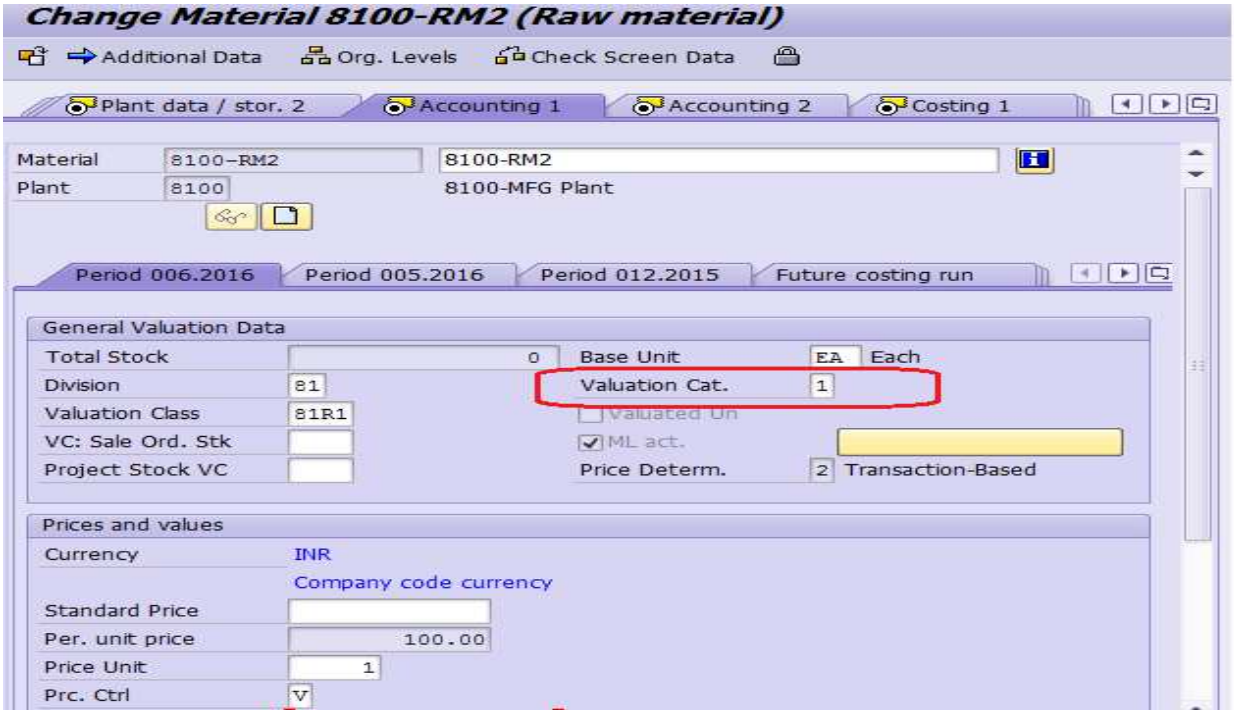


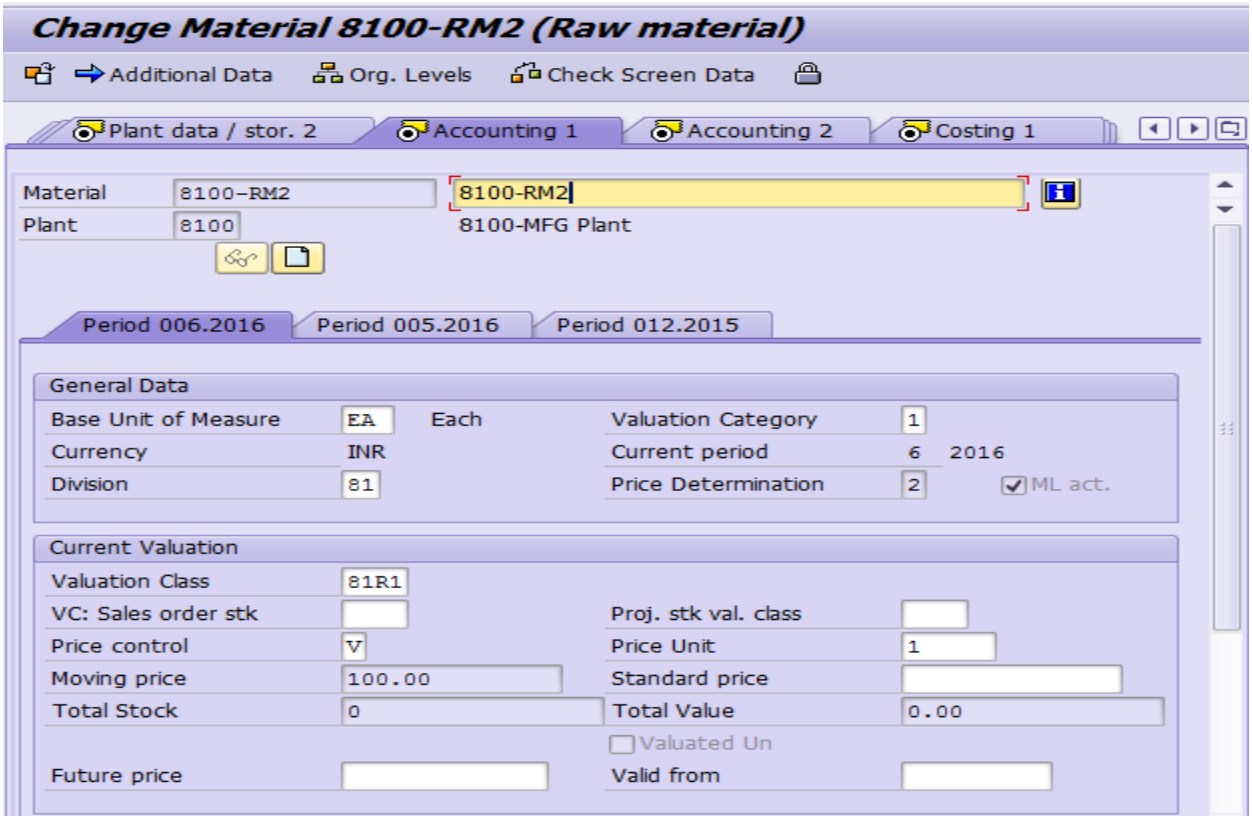
Additional Valuation Class for Split Valuation-OMSK



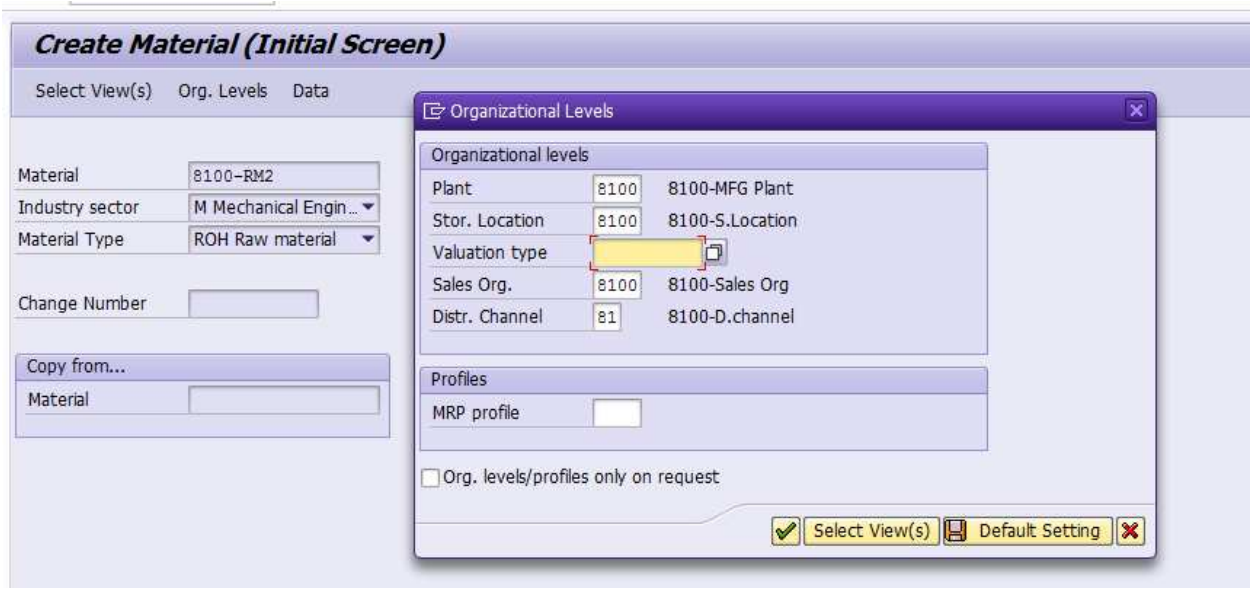
Testing

New Raw Material Creation or Existing also we active split valuation

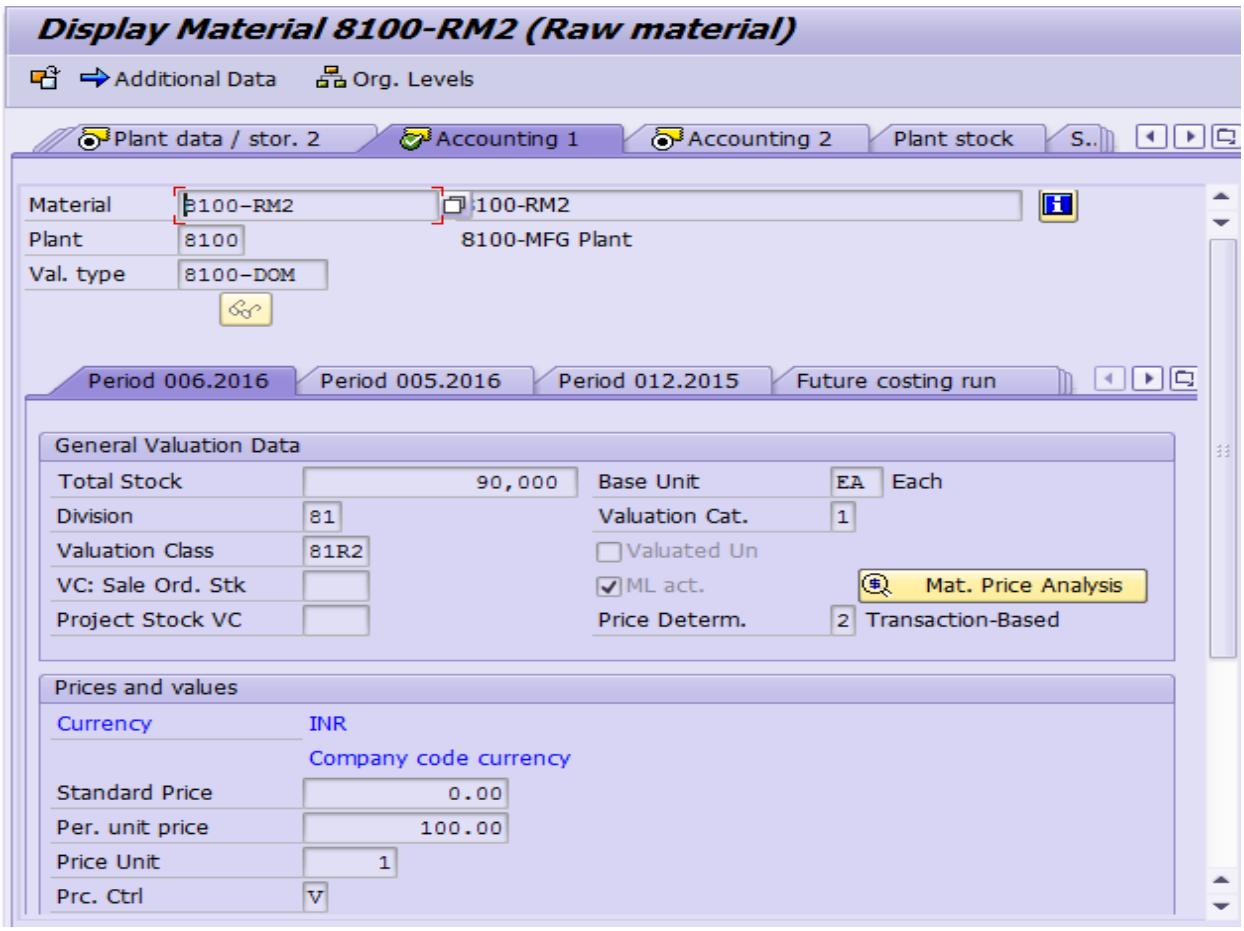




Again MM01 for the same Material



Select Valuation Type as 8100-DOM

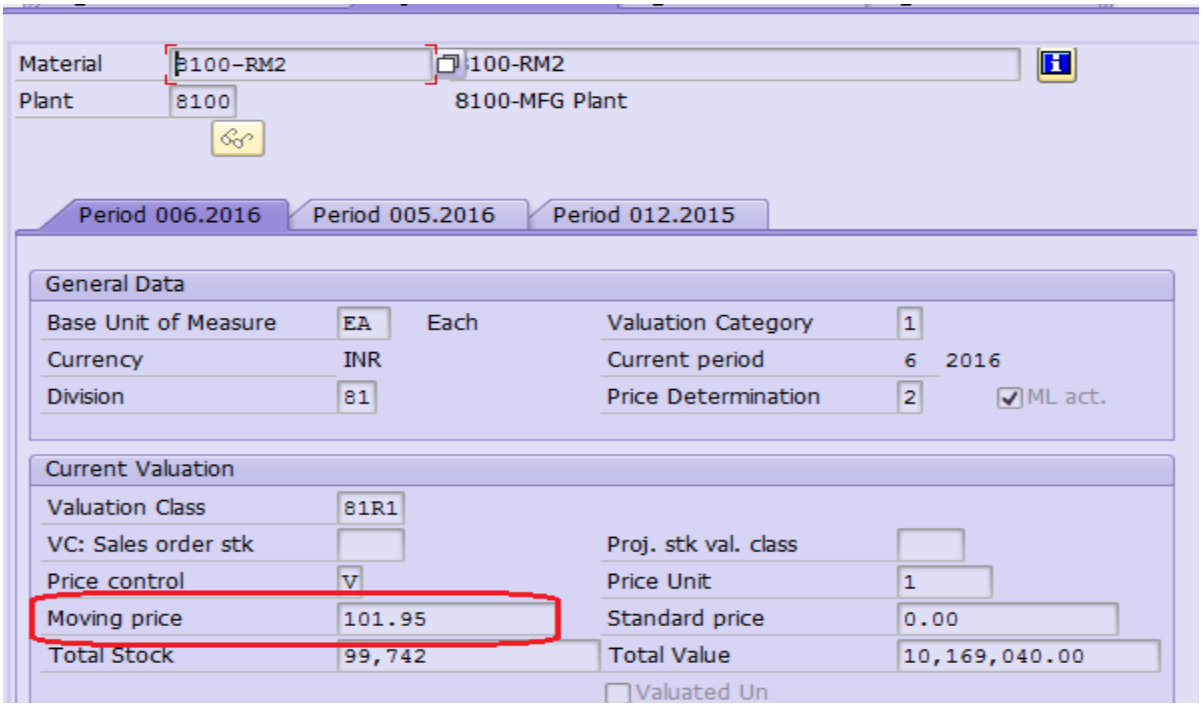


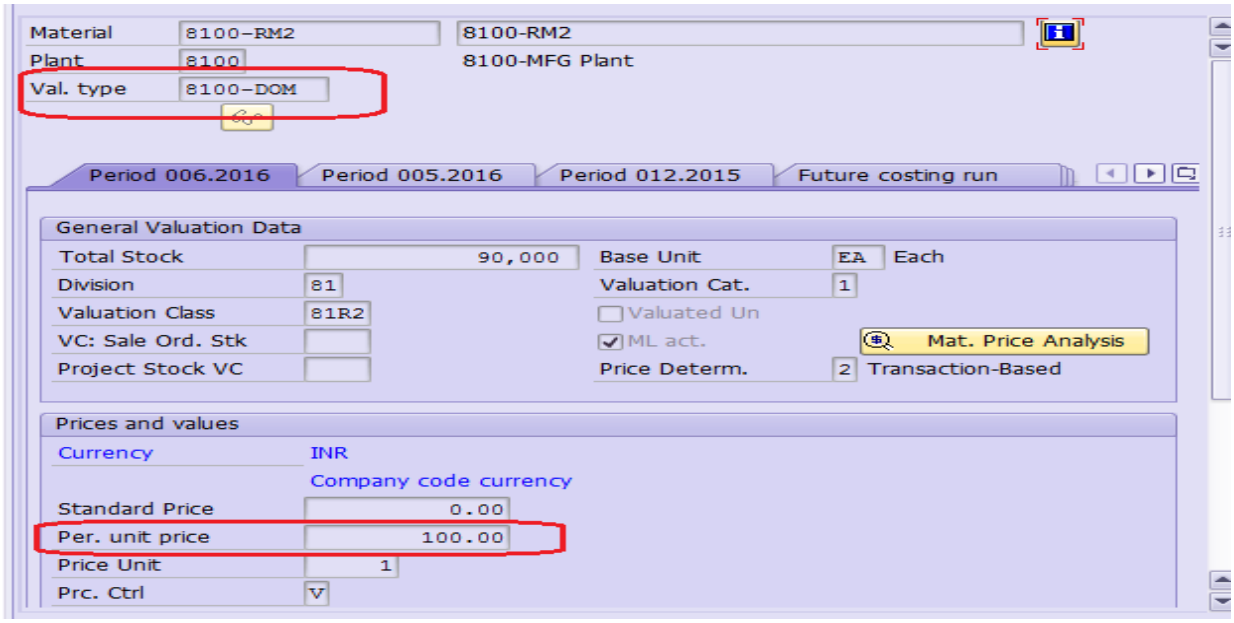
Similarly second valuation type also to be extended

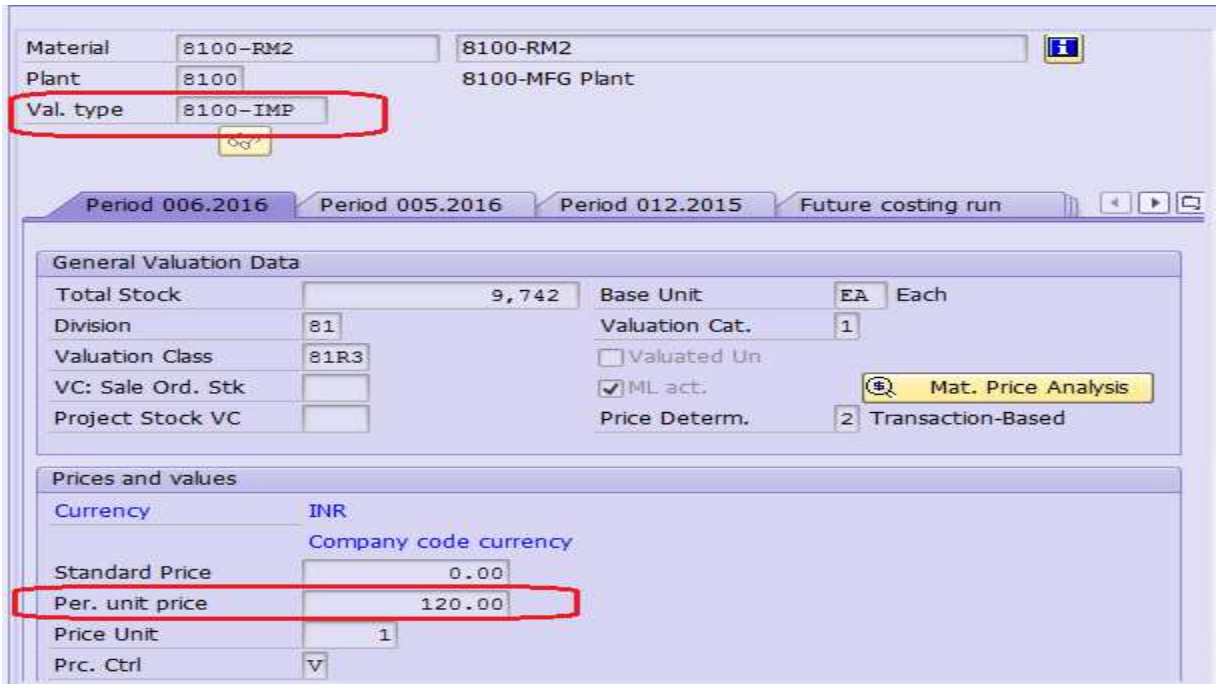
After extended three price are coming

One is header level-101.95

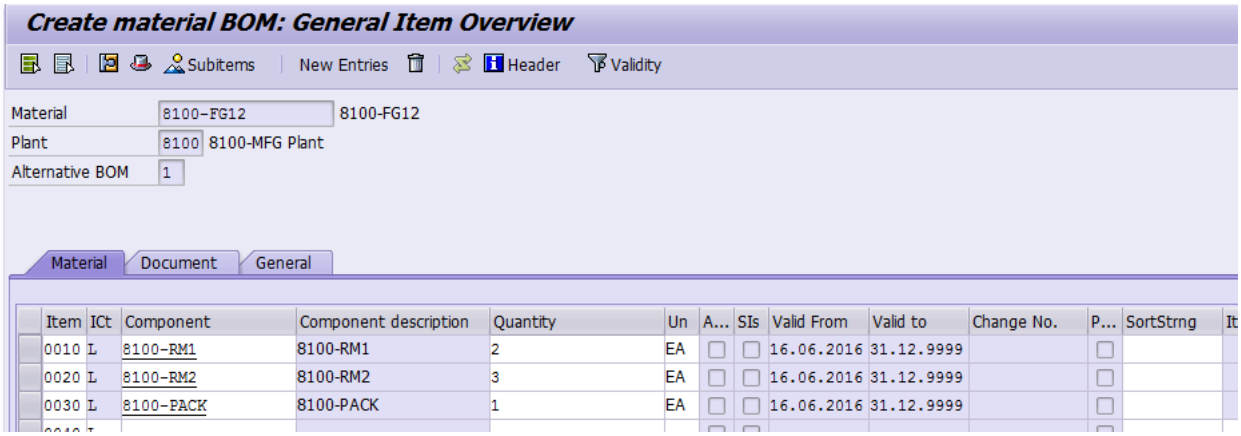
Another's are Valuation level 8100-DOM; 100.00 and 8100-IMP; 120.00



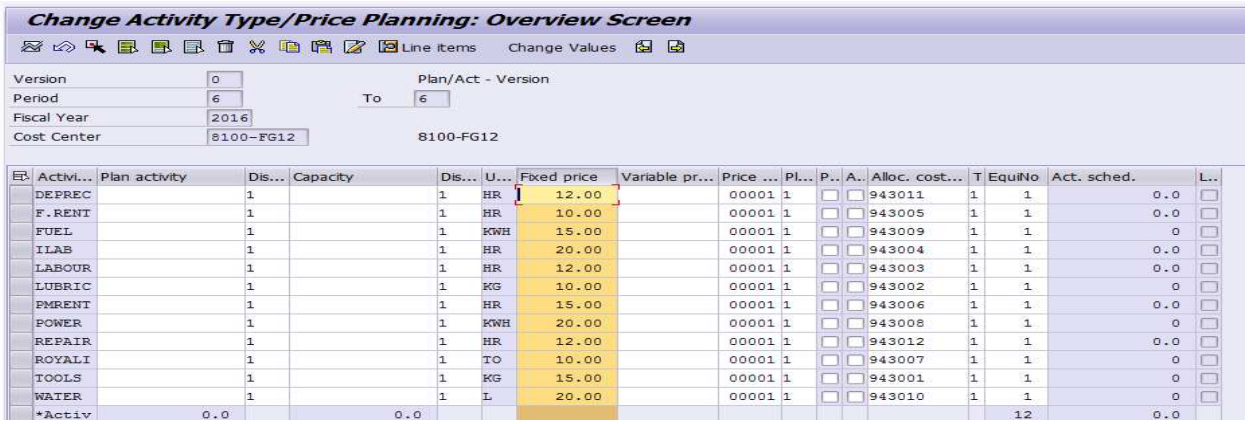




CS01-Bill of Material

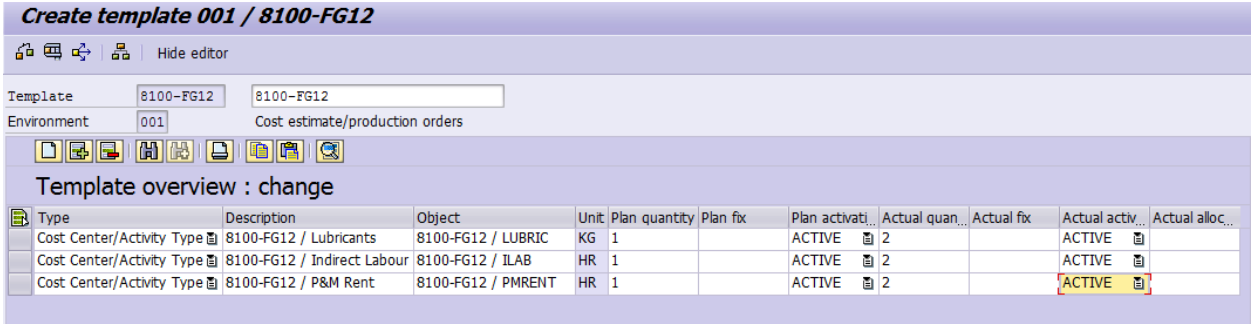


KP26

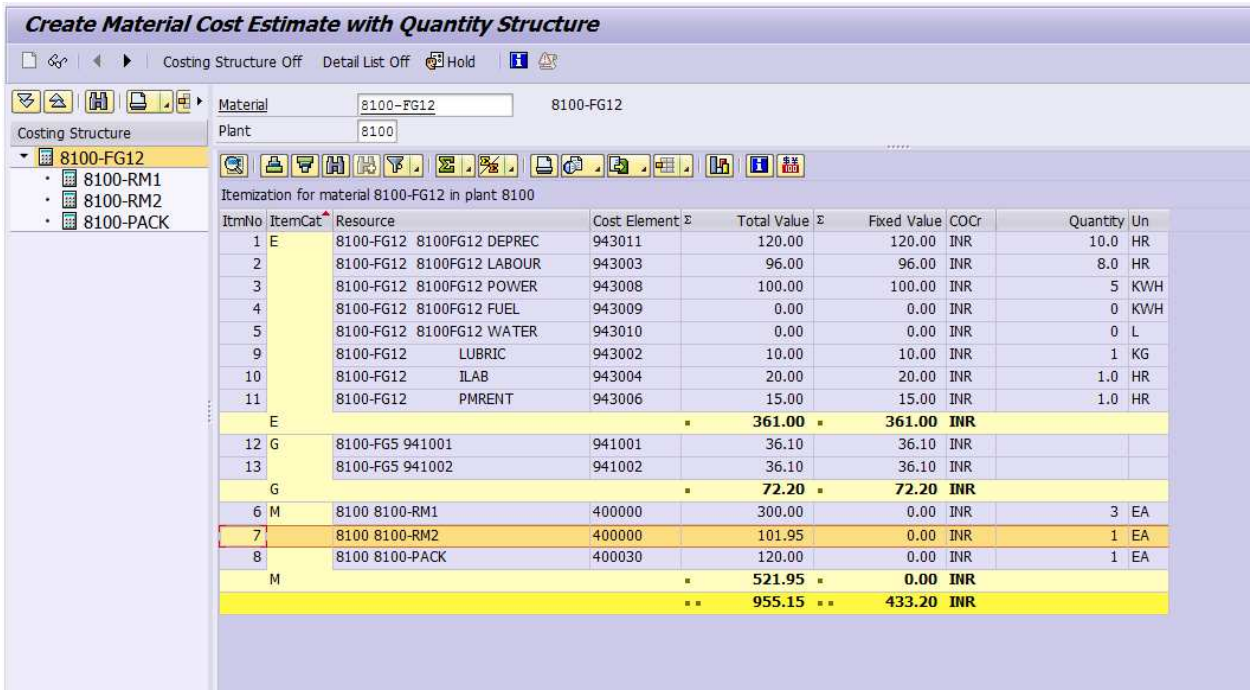


CR01

Template Allocation



CK11N-Cost estimation



Create Material Cost Estimate with Quantity Structure

Costing Structure Off | Detail List Off | Hold

Material 8100-FG12 8100-FG12

Plant 8100

Costing Structure

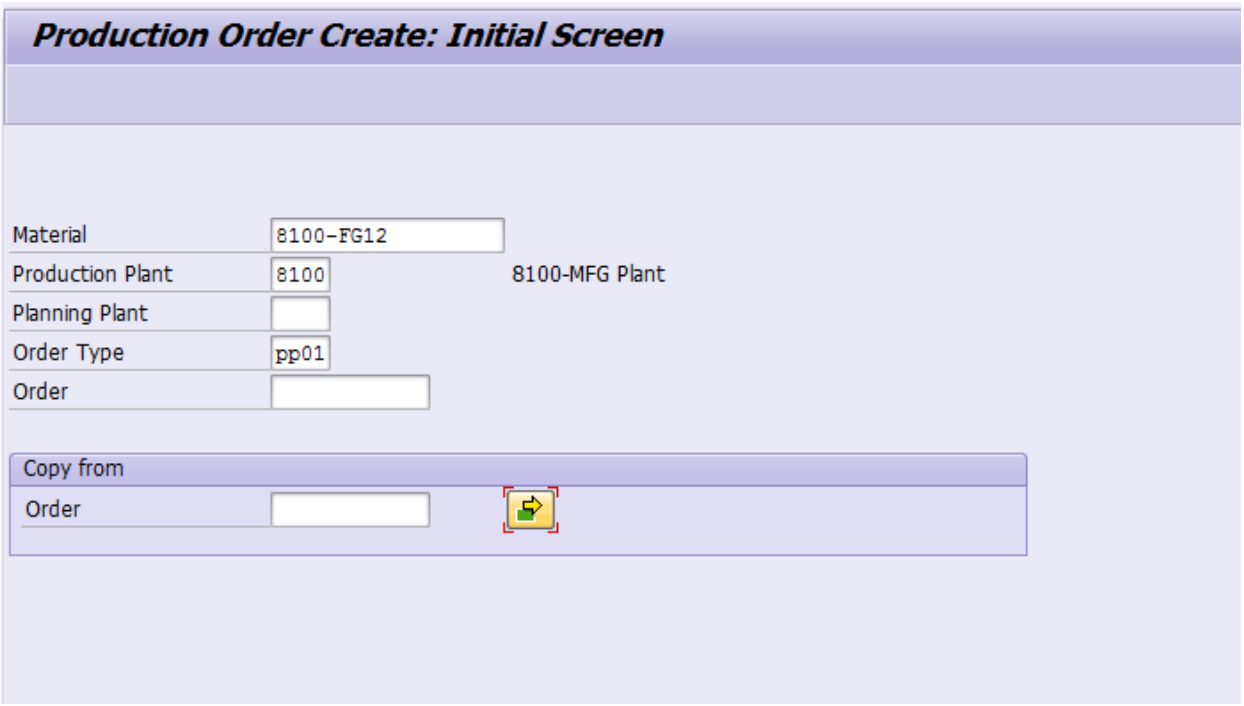
- 8100-FG12
  - 8100-RM1
  - 8100-RM2
  - 8100-PACK

Itemization for material 8100-FG12 in plant 8100

ItmNo	ItemCat	Resource	Cost Element	Total Value	Fixed Value	COCr	Quantity	Un
1	E	8100-FG12 8100FG12 DEPREC	943011	120.00	120.00	INR	10.0	HR
2		8100-FG12 8100FG12 LABOUR	943003	96.00	96.00	INR	8.0	HR
3		8100-FG12 8100FG12 POWER	943008	100.00	100.00	INR	5	KWH
4		8100-FG12 8100FG12 FUEL	943009	0.00	0.00	INR	0	KWH
5		8100-FG12 8100FG12 WATER	943010	0.00	0.00	INR	0	L
9		8100-FG12 LUBRIC	943002	10.00	10.00	INR	1	KG
10		8100-FG12 ILAB	943004	20.00	20.00	INR	1.0	HR
11		8100-FG12 PMRENT	943006	15.00	15.00	INR	1.0	HR
	E			**361.00**	**361.00**	**INR**		
12	G	8100-FG5 941001	941001	36.10	36.10	INR		
13		8100-FG5 941002	941002	36.10	36.10	INR		
	G			**72.20**	**72.20**	**INR**		
6	M	8100 8100-RM1	400000	300.00	0.00	INR	3	EA
7		8100 8100-RM2	400000	101.95	0.00	INR	1	EA
8		8100 8100-PACK	400030	120.00	0.00	INR	1	EA
	M			**521.95**	**0.00**	**INR**		
				955.15	**433.20**	**INR**		

Here we can observe, <u>8100-RM2</u> material rate 101.95 is taking i.e, header level price.

Now Production Order Creation-CO01



Production Order Create: Initial Screen

Material 8100-FG12

Production Plant 8100 8100-MFG Plant

Planning Plant

Order Type pp01

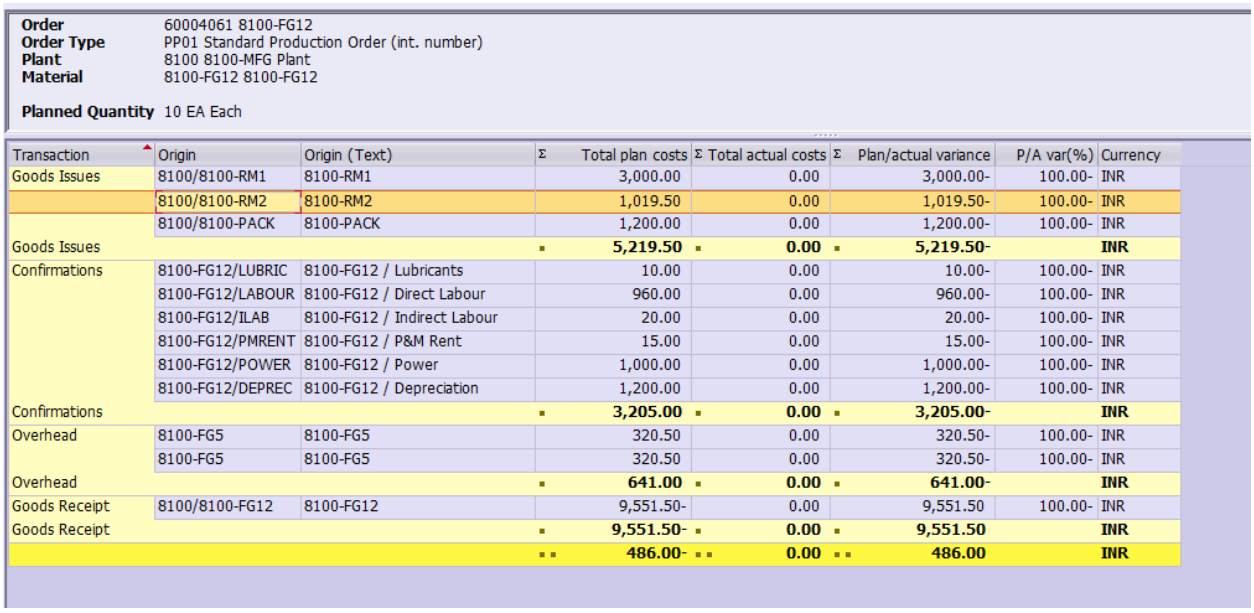
Order

Copy from

Order

Cost Trend

Here also we can observe, <u>8100-RM2</u> material rate 101.95 is taking i.e, header level price as planned price

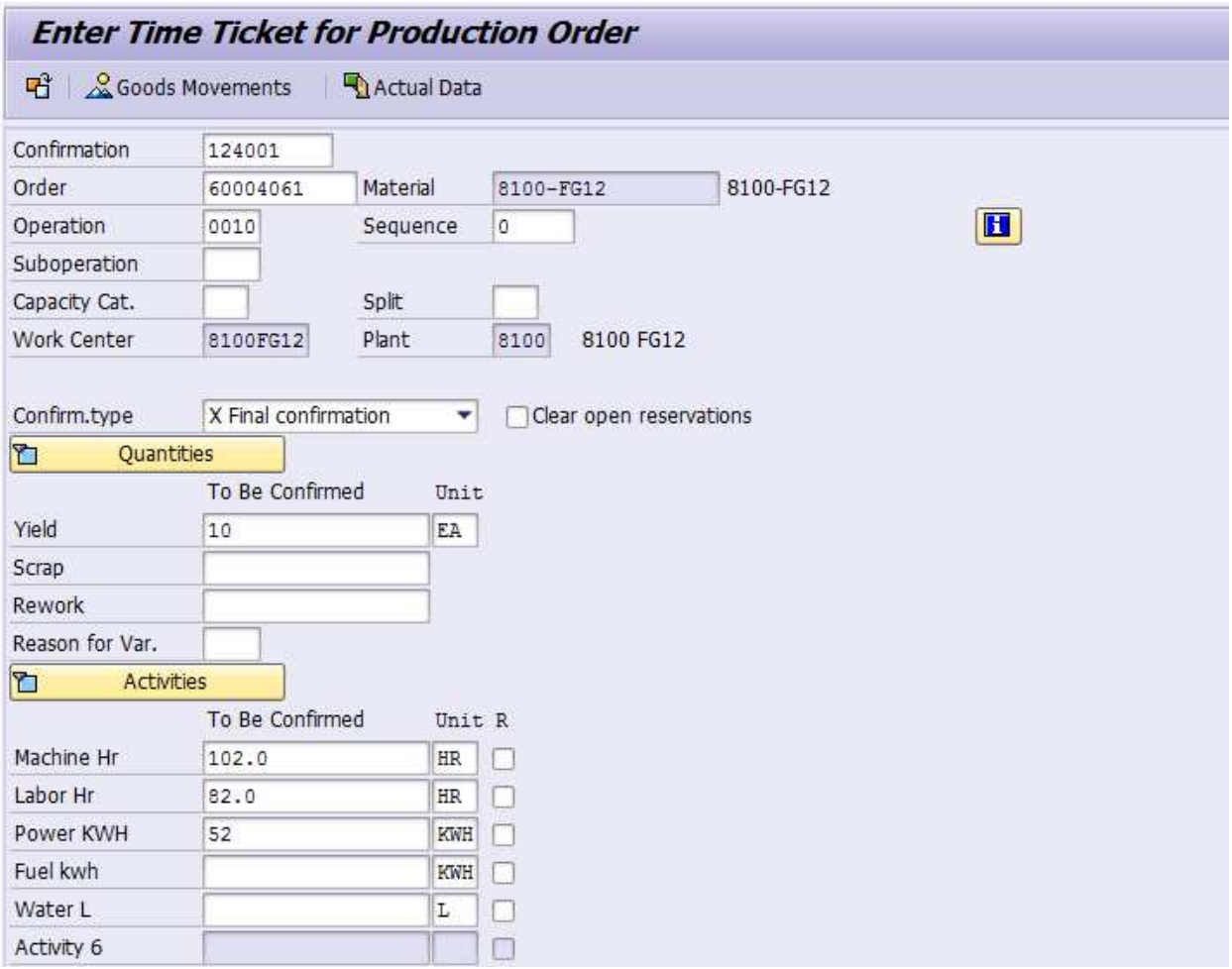


Order 60004061 8100-FG12
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG12 8100-FG12

Planned Quantity 10 EA Each

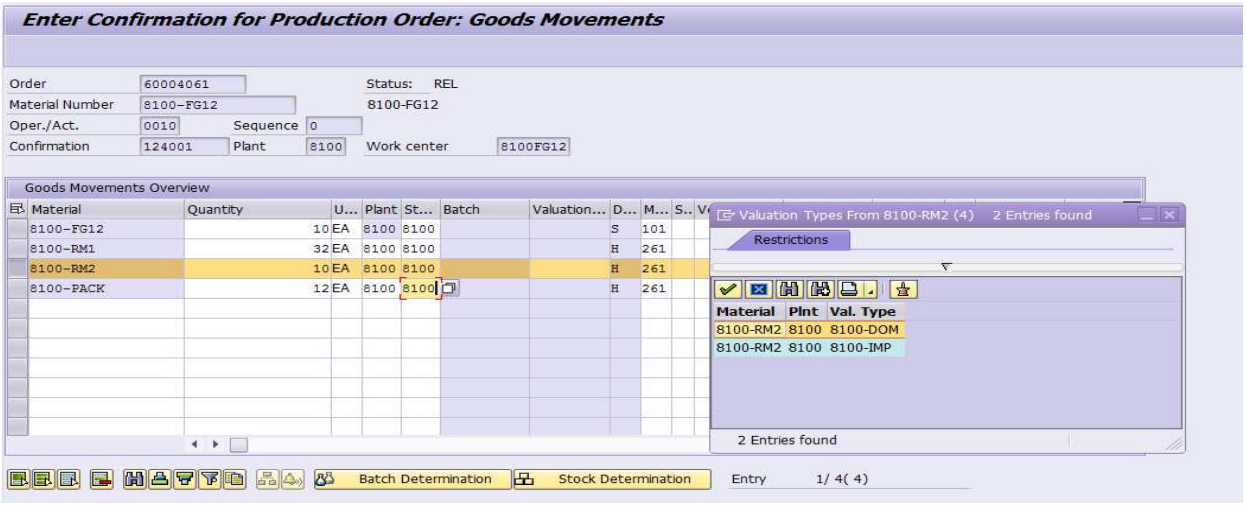
Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		3,000.00		0.00		3,000.00-	100.00-	INR
	8100/8100-RM2	8100-RM2		1,019.50		0.00		1,019.50-	100.00-	INR
	8100/8100-PACK	8100-PACK		1,200.00		0.00		1,200.00-	100.00-	INR
Goods Issues			▪	**5,219.50**	▪	**0.00**	▪	**5,219.50-**		**INR**
Confirmations	8100-FG12/LUBRIC	8100-FG12 / Lubricants		10.00		0.00		10.00-	100.00-	INR
	8100-FG12/LABOUR	8100-FG12 / Direct Labour		960.00		0.00		960.00-	100.00-	INR
	8100-FG12/ILAB	8100-FG12 / Indirect Labour		20.00		0.00		20.00-	100.00-	INR
	8100-FG12/PMRENT	8100-FG12 / P&M Rent		15.00		0.00		15.00-	100.00-	INR
	8100-FG12/POWER	8100-FG12 / Power		1,000.00		0.00		1,000.00-	100.00-	INR
	8100-FG12/DEPREC	8100-FG12 / Depreciation		1,200.00		0.00		1,200.00-	100.00-	INR
Confirmations			▪	**3,205.00**	▪	**0.00**	▪	**3,205.00-**		**INR**
Overhead	8100-FG5	8100-FG5		320.50		0.00		320.50-	100.00-	INR
	8100-FG5	8100-FG5		320.50		0.00		320.50-	100.00-	INR
Overhead			▪	**641.00**	▪	**0.00**	▪	**641.00-**		**INR**
Goods Receipt	8100/8100-FG12	8100-FG12		9,551.50-		0.00		9,551.50	100.00-	INR
Goods Receipt			▪	**9,551.50-**	▪	**0.00**	▪	**9,551.50**		**INR**
			▪▪	**486.00-**	▪▪	**0.00**	▪▪	**486.00**		**INR**

CO11N-Activity Confirmation

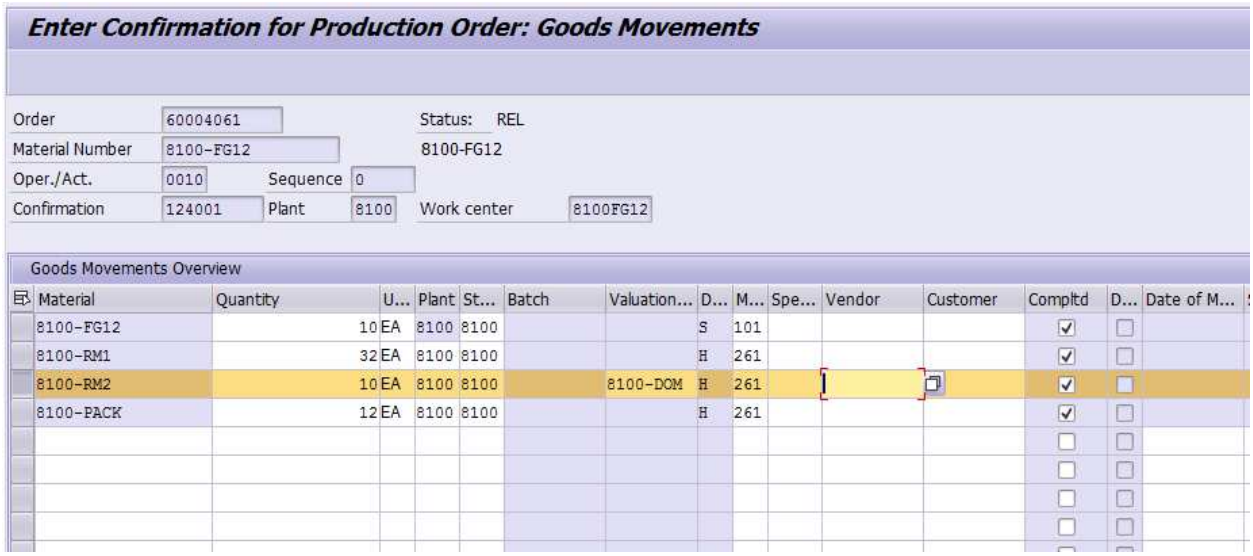


Goods Movement-

Here system will ask Valuation type for 8100-RM2 material



Select For ex: 8100-DOM valuation type.



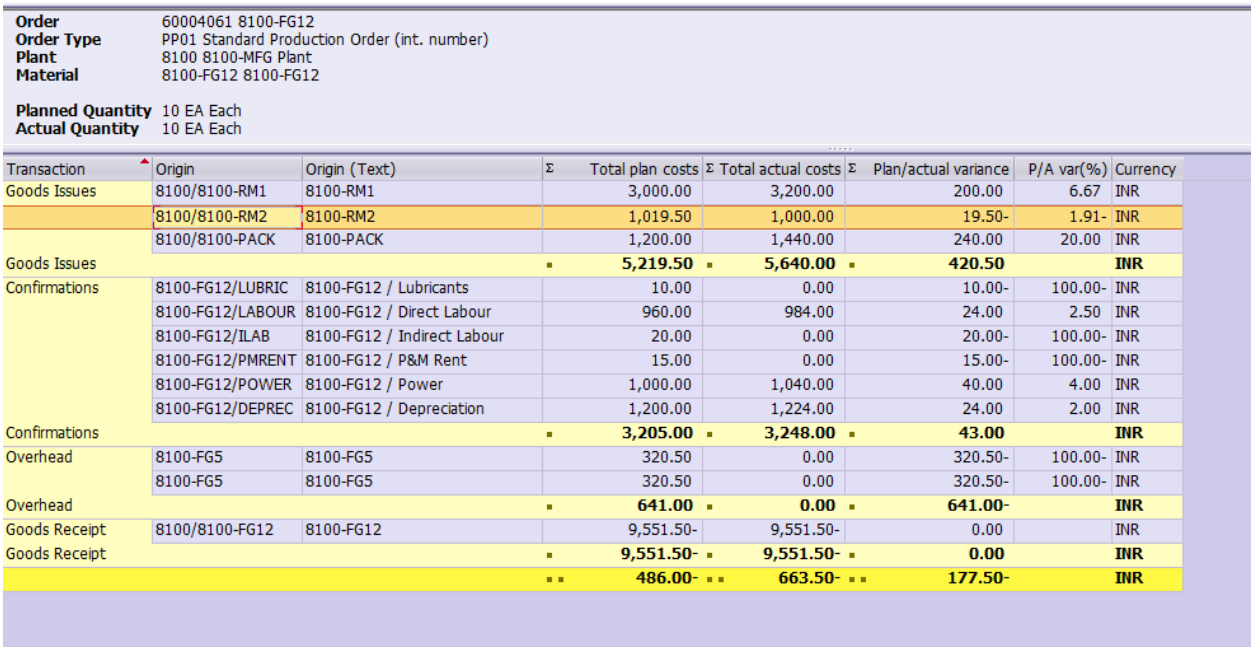
Enter Confirmation for Production Order: Goods Movements

Order	60004061		Status: REL		
Material Number	8100-FG12		8100-FG12		
Oper./Act.	0010	Sequence	0		
Confirmation	124001	Plant	8100	Work center	8100FG12

Goods Movements Overview

Material	Quantity	U...	Plant	St...	Batch	Valuation...	D...	M...	Spe...	Vendor	Customer	Compltd	D...	Date of M...
8100-FG12	10	EA	8100	8100			S	101				☑	☐	
8100-RM1	32	EA	8100	8100			H	261				☑	☐	
8100-RM2	10	EA	8100	8100		8100-DOM	H	261				☑	☐	
8100-PACK	12	EA	8100	8100			H	261				☑	☐	

Cost Trend



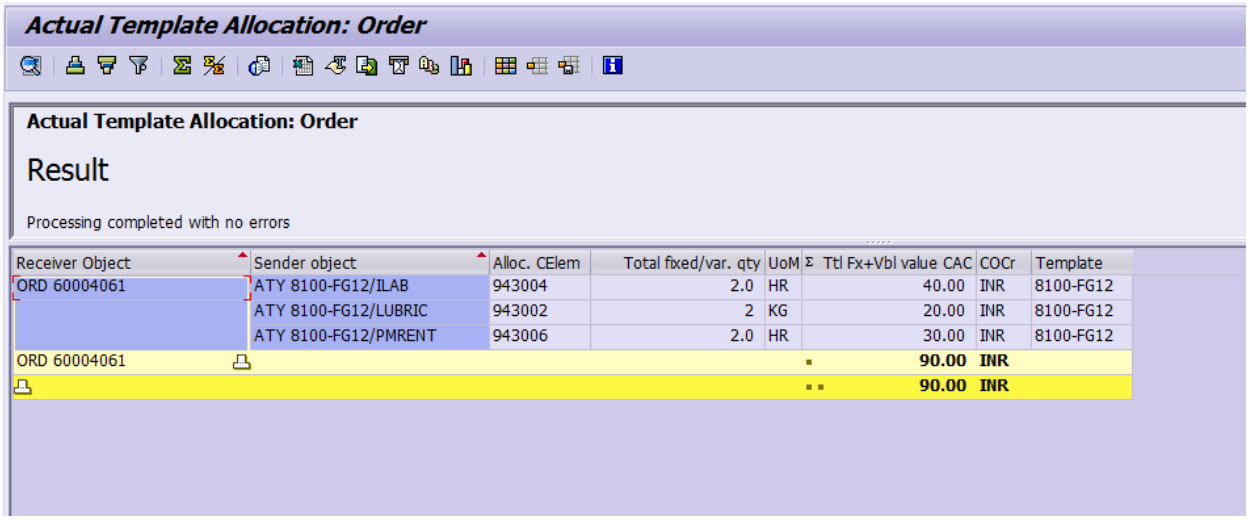
Order 60004061 8100-FG12
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG12 8100-FG12

Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

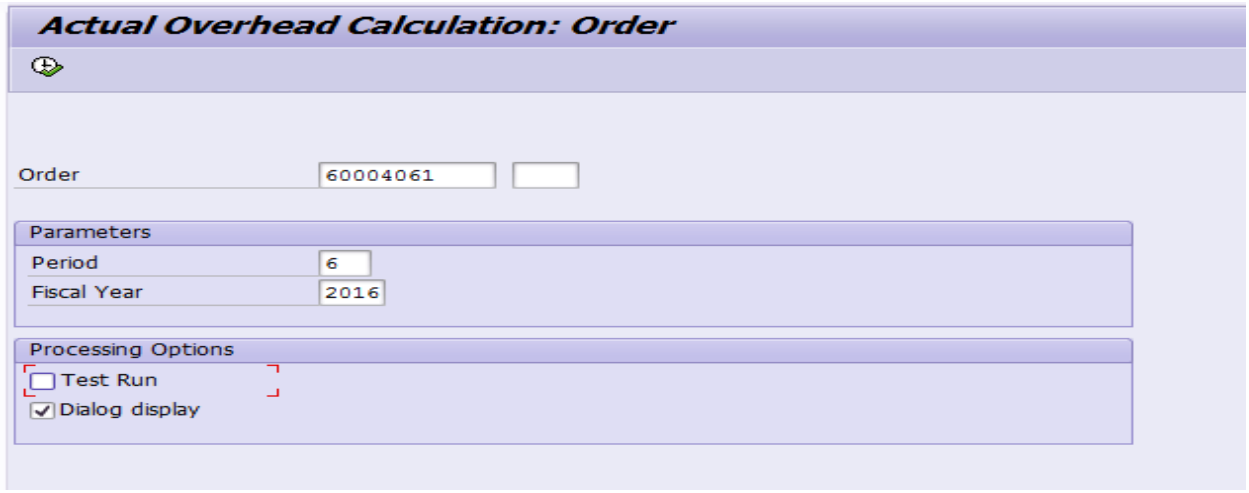
Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	3,000.00	3,200.00	200.00	6.67	INR
	8100/8100-RM2	8100-RM2	1,019.50	1,000.00	19.50-	1.91-	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**5,219.50**	**5,640.00**	**420.50**		**INR**
Confirmations	8100-FG12/LUBRIC	8100-FG12 / Lubricants	10.00	0.00	10.00-	100.00-	INR
	8100-FG12/LABOUR	8100-FG12 / Direct Labour	960.00	984.00	24.00	2.50	INR
	8100-FG12/ILAB	8100-FG12 / Indirect Labour	20.00	0.00	20.00-	100.00-	INR
	8100-FG12/PMRENT	8100-FG12 / P&M Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG12/POWER	8100-FG12 / Power	1,000.00	1,040.00	40.00	4.00	INR
	8100-FG12/DEPREC	8100-FG12 / Depreciation	1,200.00	1,224.00	24.00	2.00	INR
Confirmations			**3,205.00**	**3,248.00**	**43.00**		**INR**
Overhead	8100-FG5	8100-FG5	320.50	0.00	320.50-	100.00-	INR
	8100-FG5	8100-FG5	320.50	0.00	320.50-	100.00-	INR
Overhead			**641.00**	**0.00**	**641.00-**		**INR**
Goods Receipt	8100/8100-FG12	8100-FG12	9,551.50-	9,551.50-	0.00		INR
Goods Receipt			**9,551.50-**	**9,551.50-**	**0.00**		**INR**
			486.00-	**663.50-**	**177.50-**		**INR**

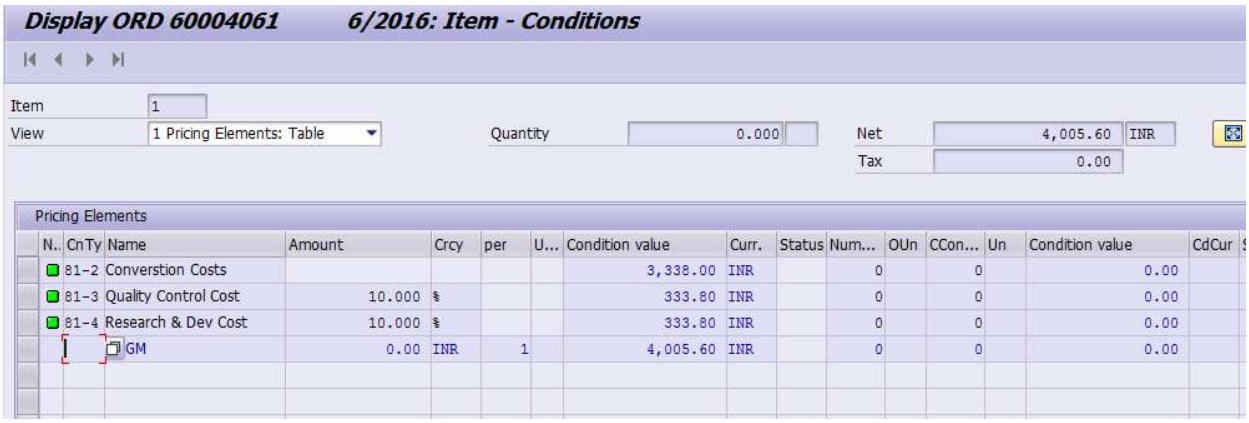
Here also we can observe, <u>8100-RM2</u> material rate 1000 is taking i.e, Valuation level price as Actual price

Template Allocation- CPTA - Individual Processing

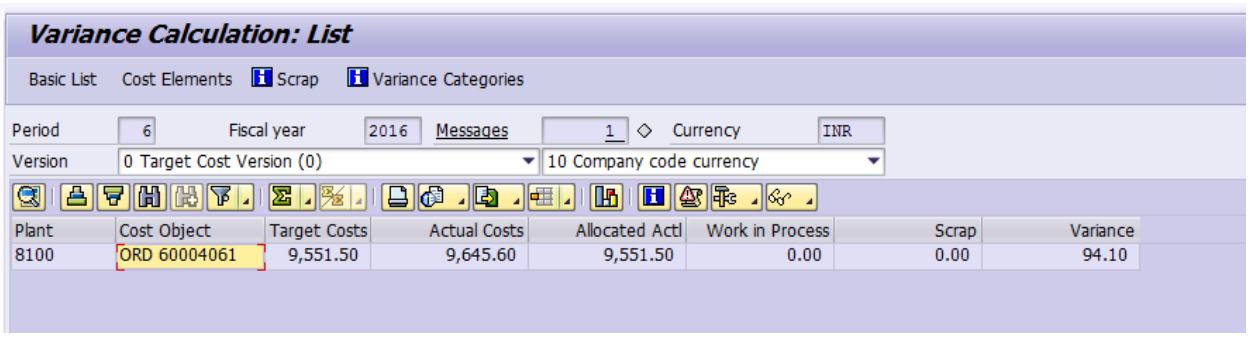


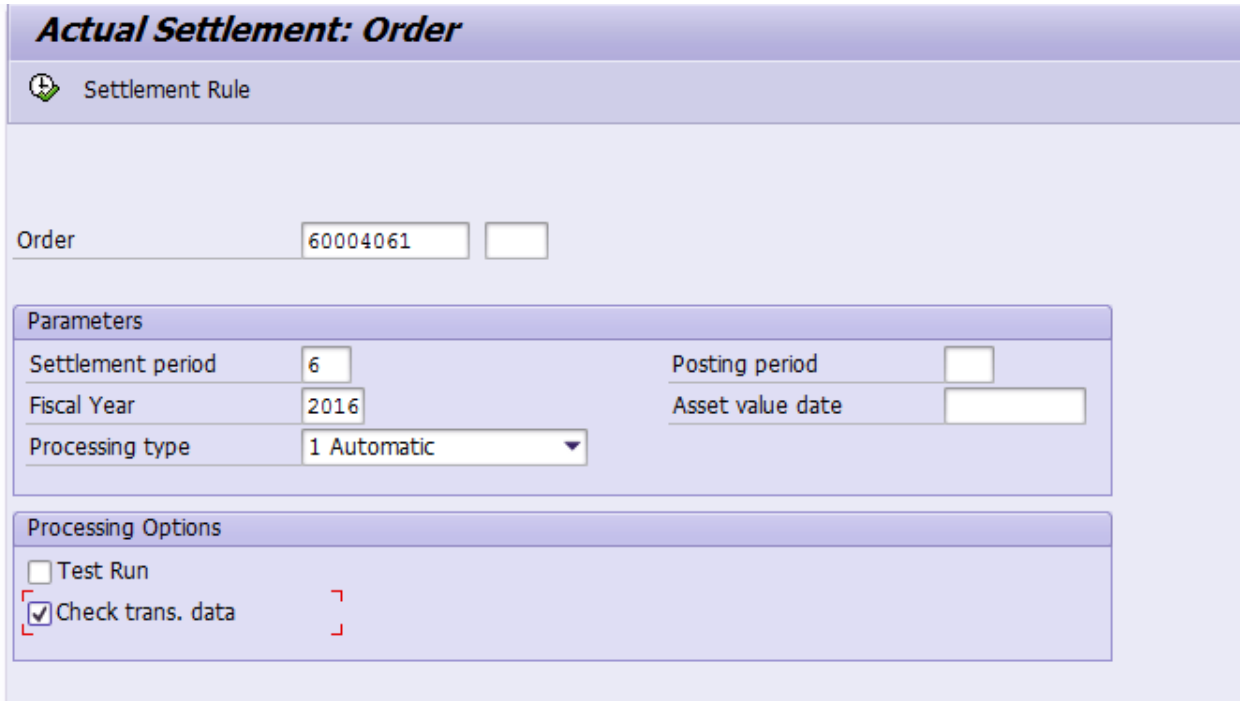
Overhead- KGI2 - Individual Processing

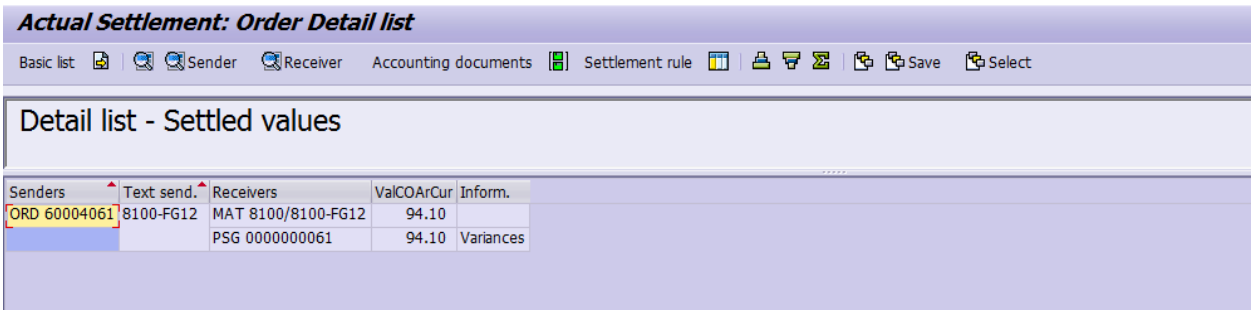




Variances- KKS2 - Individual Processing







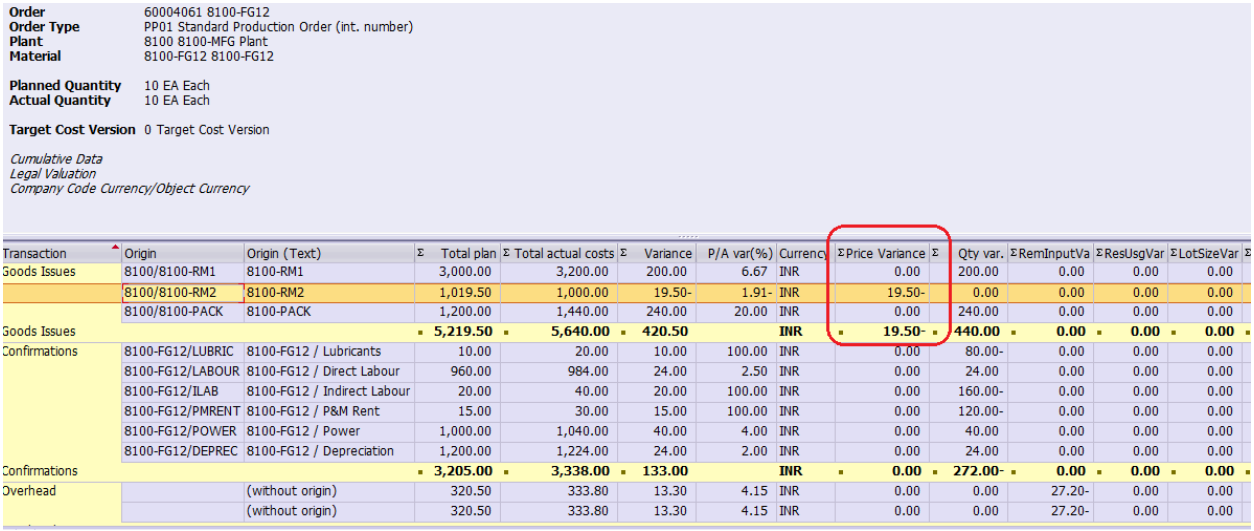
Actual Settlement: Order Detail list

Basic list | Sender | Receiver | Accounting documents | Settlement rule | Save | Select

Detail list - Settled values

Senders	Text send.	Receivers	ValCOArCur	Inform.
ORD 60004061	8100-FG12	MAT 8100/8100-FG12	94.10	
		PSG 0000000061	94.10	Variances

CO03-Cost Trend



Order 60004061 8100-FG12
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG12 8100-FG12

Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

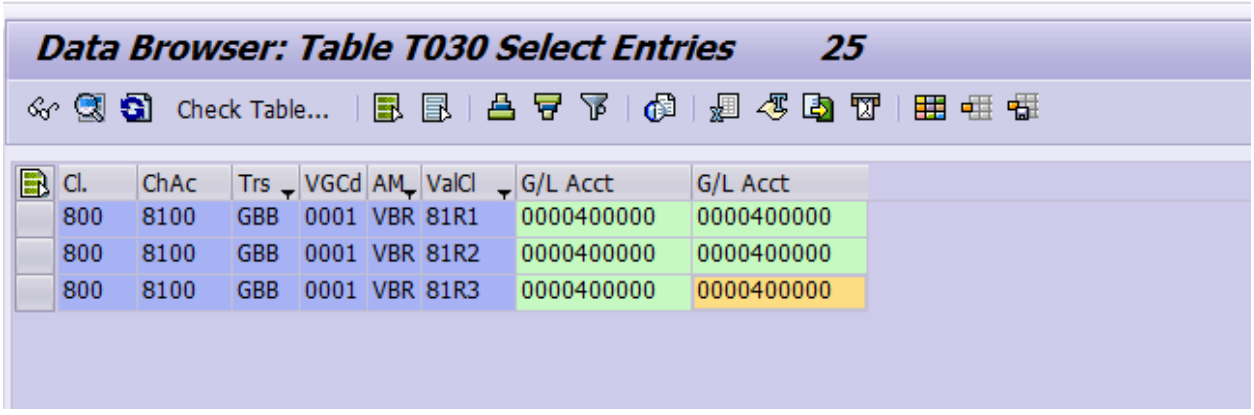
Target Cost Version 0 Target Cost Version

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Total plan	Total actual costs	Variance	P/A var(%)	Currency	Price Variance	Qty var.	RemInputVa	ResUsgVar	LotSizeVar
Goods Issues	8100/8100-RM1	8100-RM1	3,000.00	3,200.00	200.00	6.67	INR	0.00	200.00	0.00	0.00	0.00
	8100/8100-RM2	8100-RM2	1,019.50	1,000.00	19.50-	1.91-	INR	19.50-	0.00	0.00	0.00	0.00
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR	0.00	240.00	0.00	0.00	0.00
Goods Issues			**5,219.50**	**5,640.00**	**420.50**		**INR**	**19.50-**	**440.00**	**0.00**	**0.00**	**0.00**
Confirmations	8100-FG12/LUBRIC	8100-FG12 / Lubricants	10.00	20.00	10.00	100.00	INR	0.00	80.00-	0.00	0.00	0.00
	8100-FG12/LABOUR	8100-FG12 / Direct Labour	960.00	984.00	24.00	2.50	INR	0.00	24.00	0.00	0.00	0.00
	8100-FG12/ILAB	8100-FG12 / Indirect Labour	20.00	40.00	20.00	100.00	INR	0.00	160.00-	0.00	0.00	0.00
	8100-FG12/PMRENT	8100-FG12 / P&M Rent	15.00	30.00	15.00	100.00	INR	0.00	120.00-	0.00	0.00	0.00
	8100-FG12/POWER	8100-FG12 / Power	1,000.00	1,040.00	40.00	4.00	INR	0.00	40.00	0.00	0.00	0.00
	8100-FG12/DEPREC	8100-FG12 / Depreciation	1,200.00	1,224.00	24.00	2.00	INR	0.00	24.00	0.00	0.00	0.00
Confirmations			**3,205.00**	**3,338.00**	**133.00**		**INR**	**0.00**	**272.00-**	**0.00**	**0.00**	**0.00**
Overhead		(without origin)	320.50	333.80	13.30	4.15	INR	0.00	0.00	27.20-	0.00	0.00
		(without origin)	320.50	333.80	13.30	4.15	INR	0.00	0.00	27.20-	0.00	0.00

OBYC-GBB-VBR same consumption GL was assigned, so that 19.50 price diff falls under Input Price Diff.

Suppose the different GL was assigned, then that price diff 19.50 will comes under Resource Variance.



Data Browser: Table T030 Select Entries 25

Check Table...

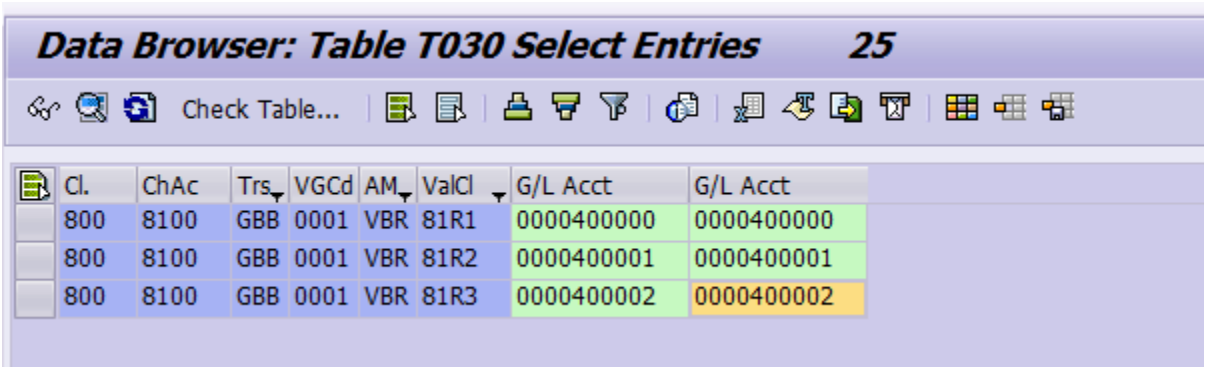
Cl.	ChAc	Trs	VGCd	AM	ValCl	G/L Acct	G/L Acct
800	8100	GBB	0001	VBR	81R1	0000400000	0000400000
800	8100	GBB	0001	VBR	81R2	0000400000	0000400000
800	8100	GBB	0001	VBR	81R3	0000400000	0000400000

In next scenario we can test with different G/L accounts.

Split Valuation Costing process

2).Multiple procure (Purchase & Manufacturing) process for SFG Materials

First OBYC GBB-VBR mapping fir RM Consumption GLs

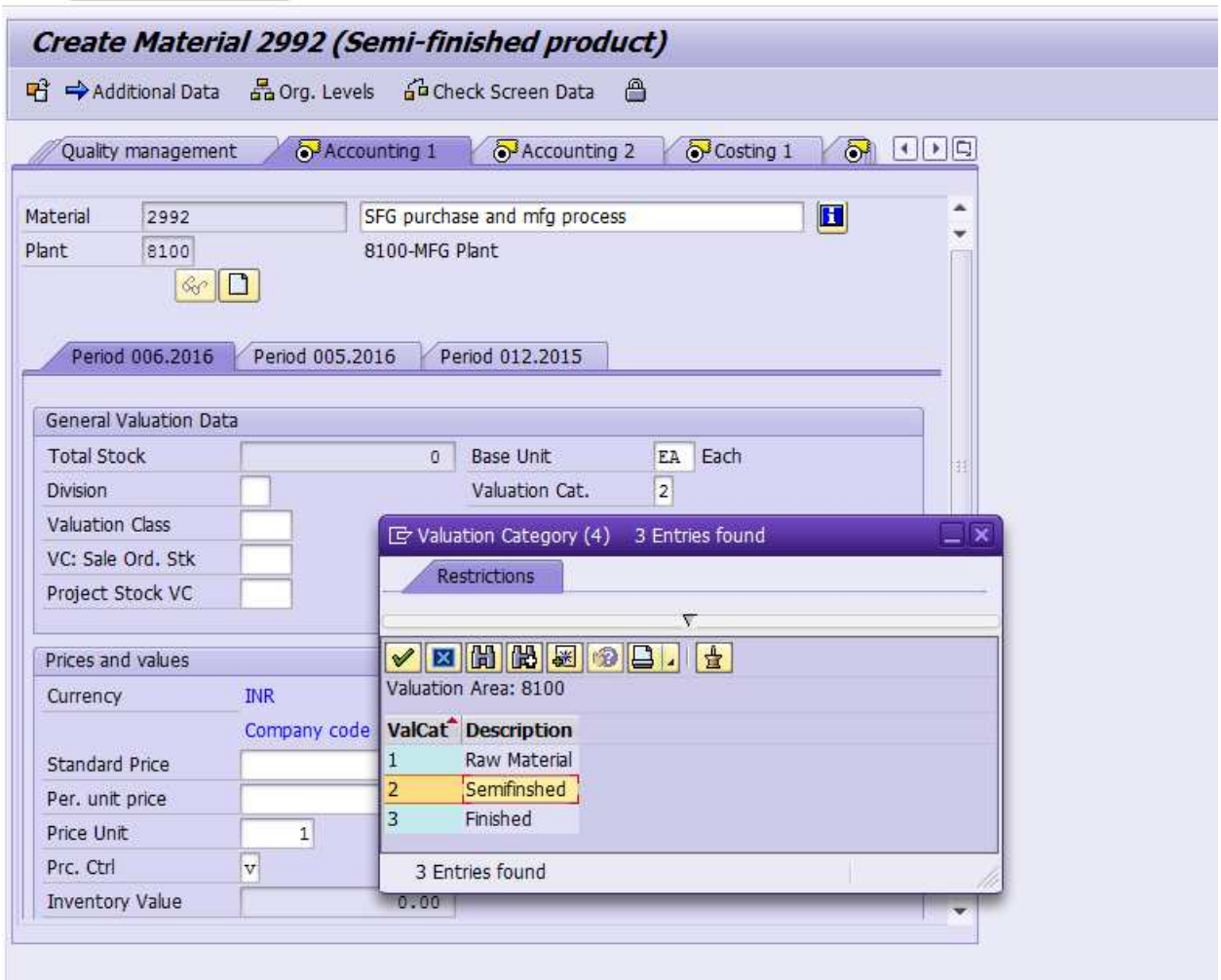


Cl.	ChAc	Trs	VGCd	AM	ValCl	G/L Acct	G/L Acct
800	8100	GBB	0001	VBR	81R1	0000400000	0000400000
800	8100	GBB	0001	VBR	81R2	0000400001	0000400001
800	8100	GBB	0001	VBR	81R3	0000400002	0000400002

We can test SFG purchase and mfg process along with RM different consumption GLs.

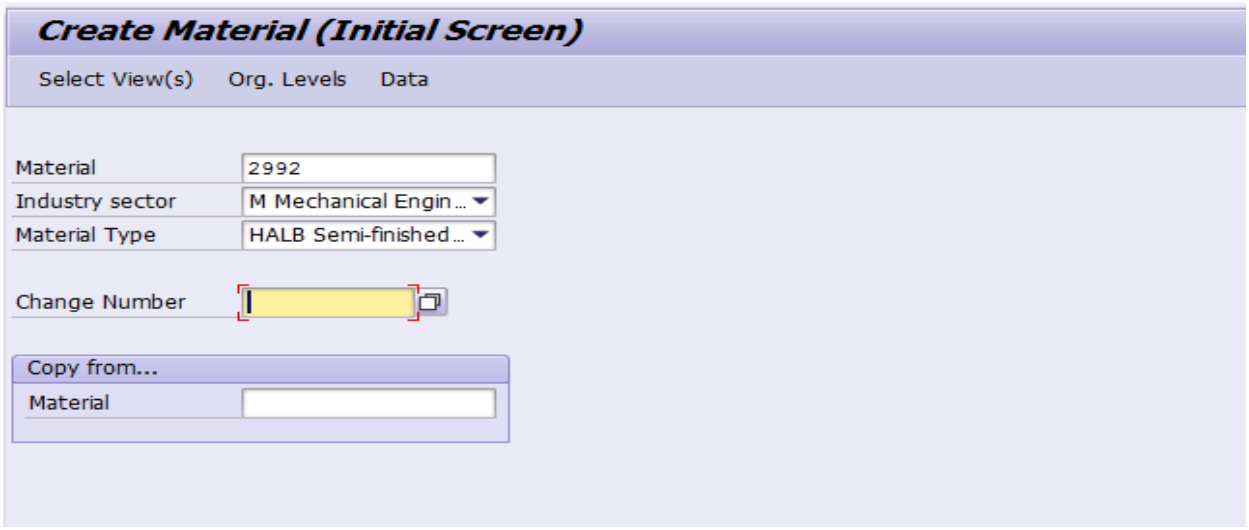
Testing

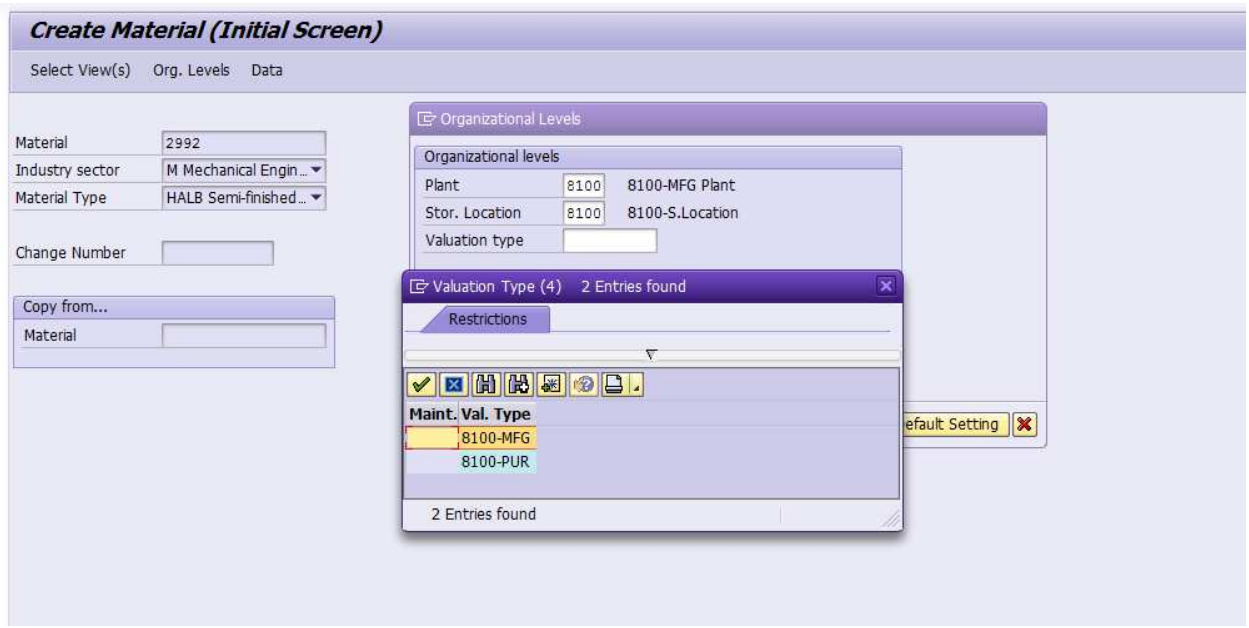
MM01-Material master Creation



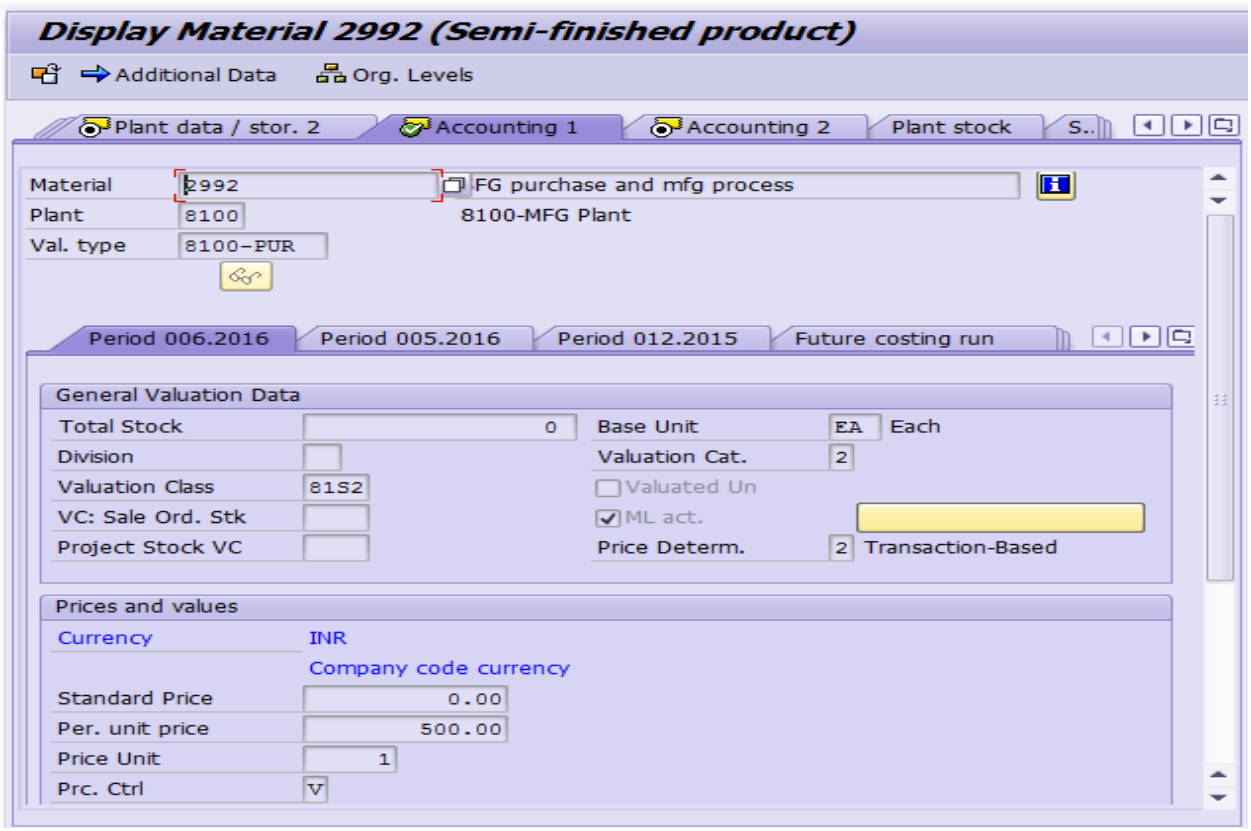
Material-2992 created

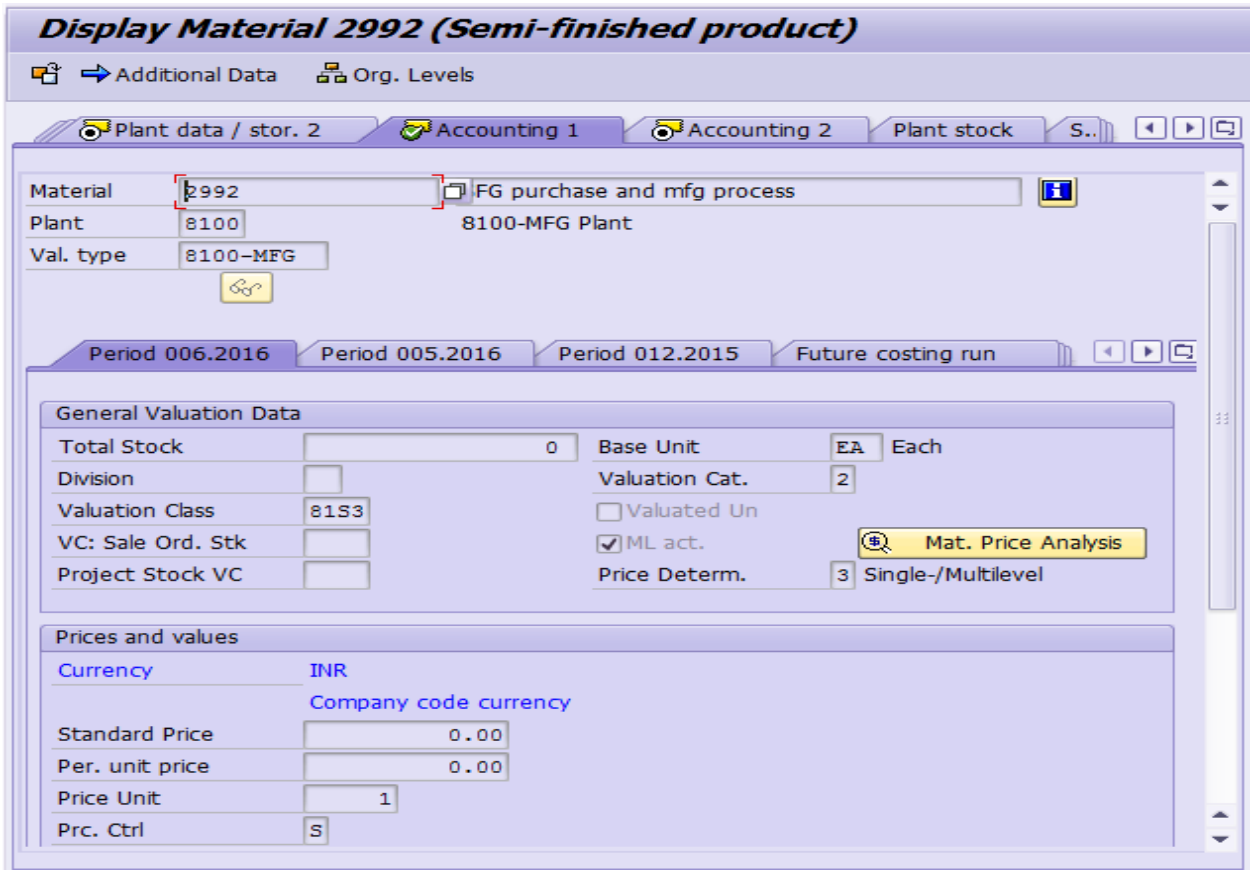
Again-MM01





Select Valuation type and enter and create

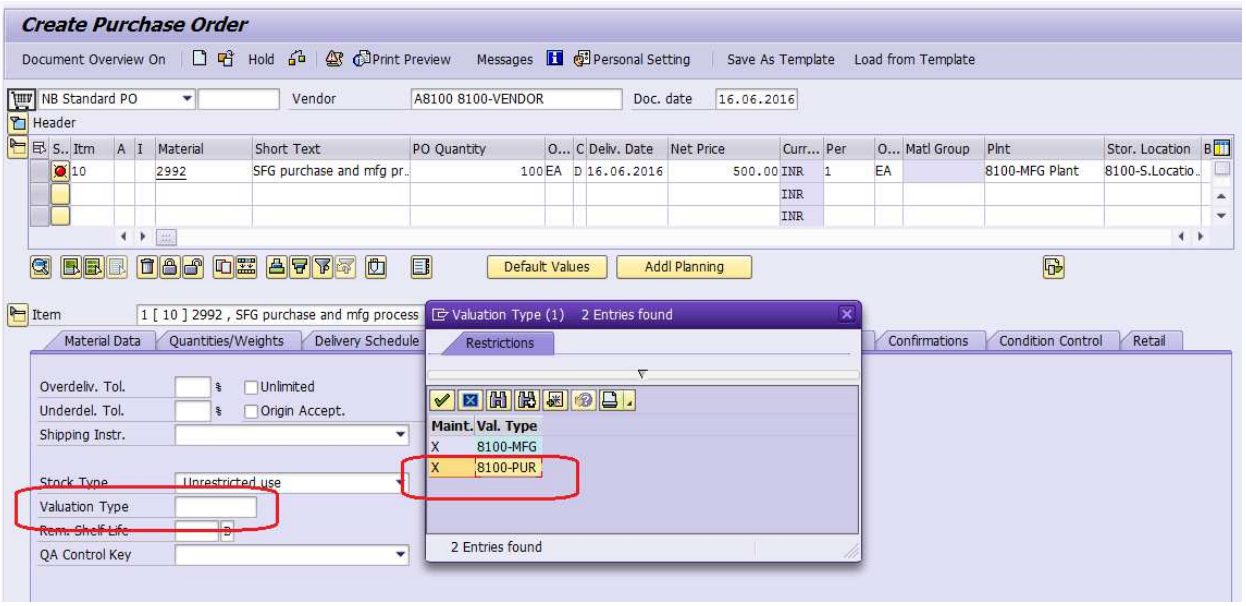

Display Material 2992 (Semi-finished product)
Additional Data
Org. Levels
Plant data / stor. 2
Accounting 1
Accounting 2
Plant stock
S..
Material 2992
FG purchase and mfg process
Plant 8100
8100-MFG Plant
Val. type 8100-PUR
Period 006.2016
Period 005.2016
Period 012.2015
Future costing run
General Valuation Data
Total Stock 0
Base Unit EA Each
Division
Valuation Cat. 2
Valuation Class 81S2
Valuated Un
VC: Sale Ord. Stk
ML act.
Project Stock VC
Price Determ. 2 Transaction-Based
Prices and values
Currency INR
Company code currency
Standard Price 0.00
Per. unit price 500.00
Price Unit 1
Prc. Ctrl V



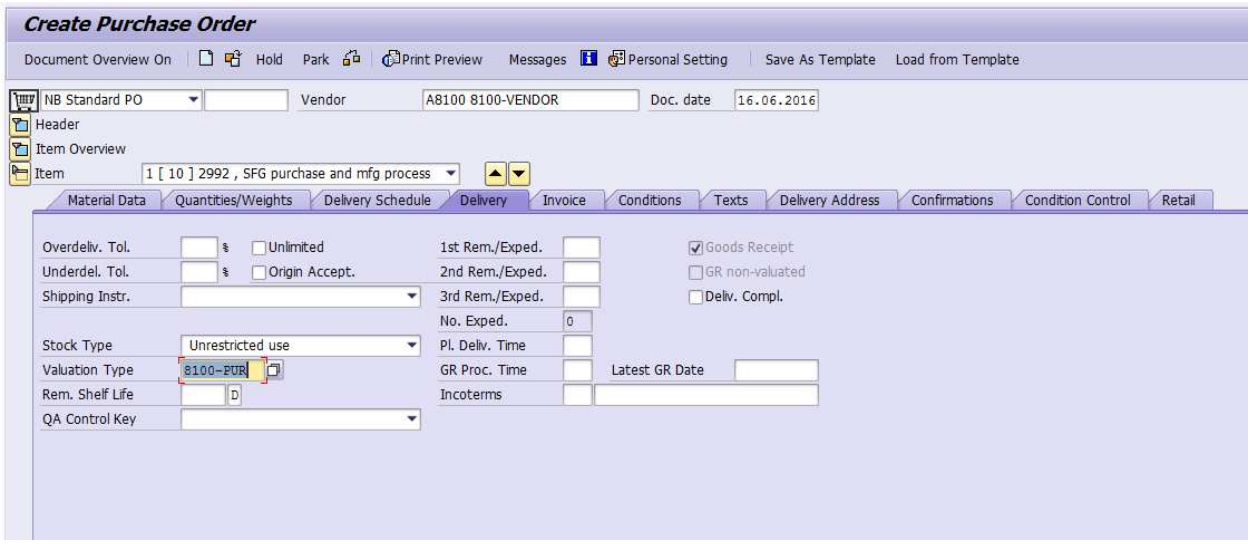
Now Purchase process

Purchase order creation

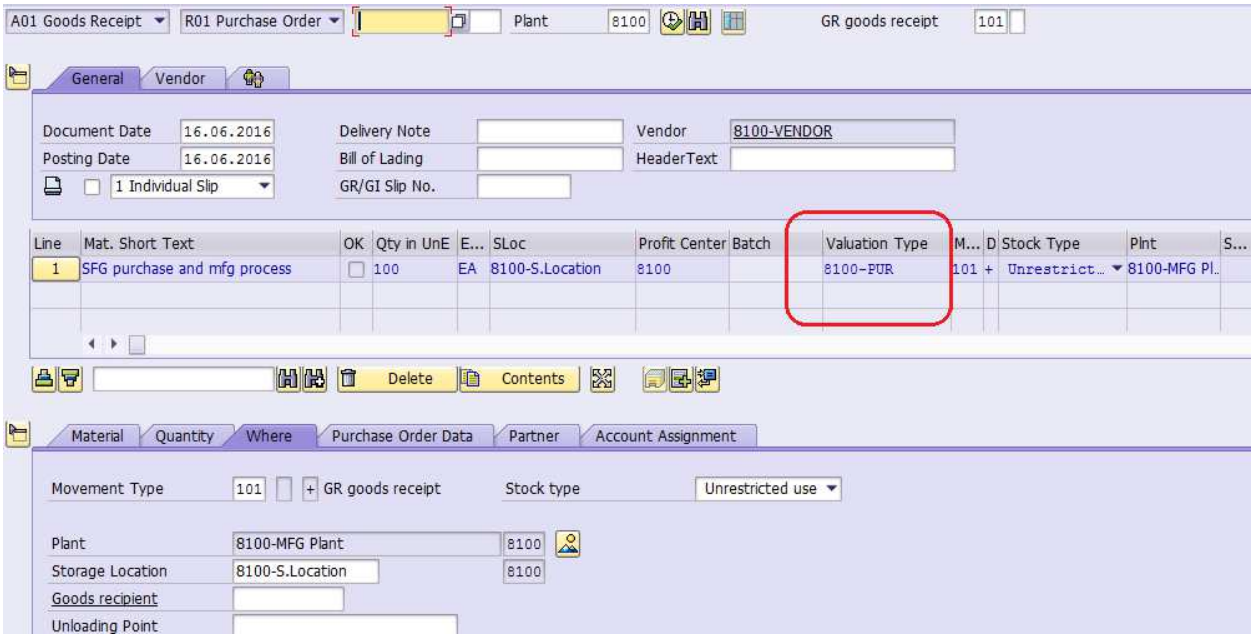
ME21N



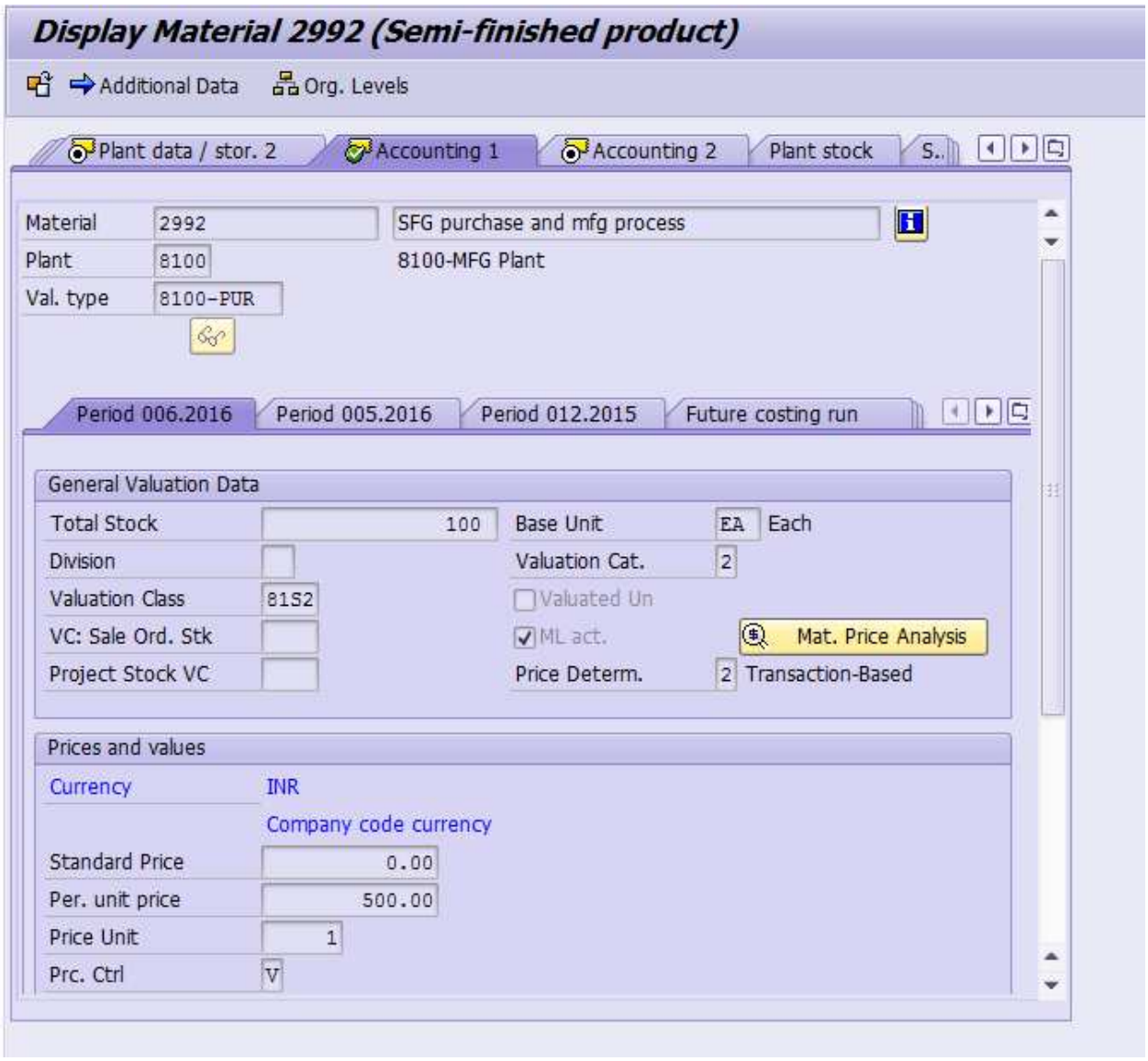
In item level we can give 8100-PUR valuation type for purchase process



MIGO-Goods Receipt



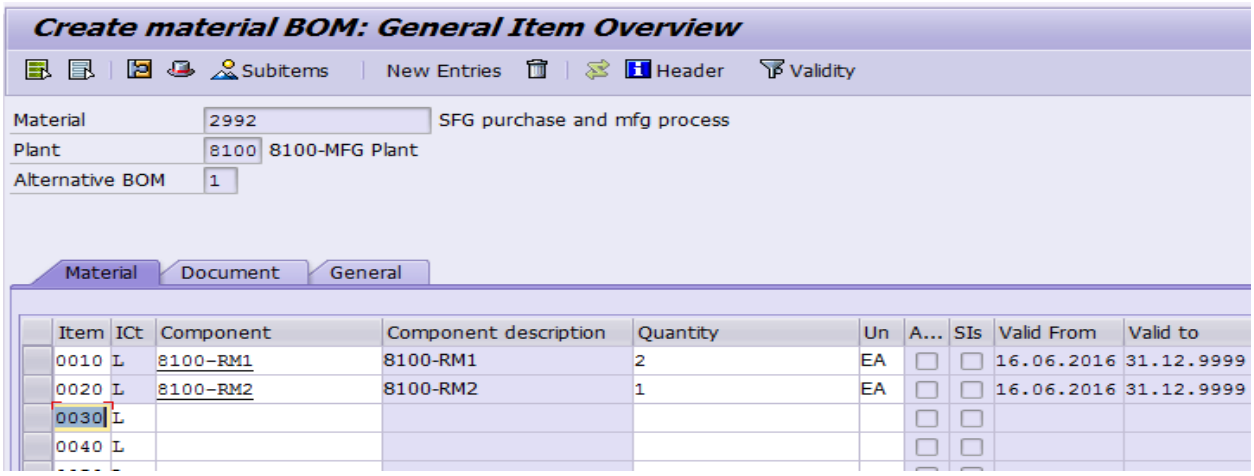
After GRN

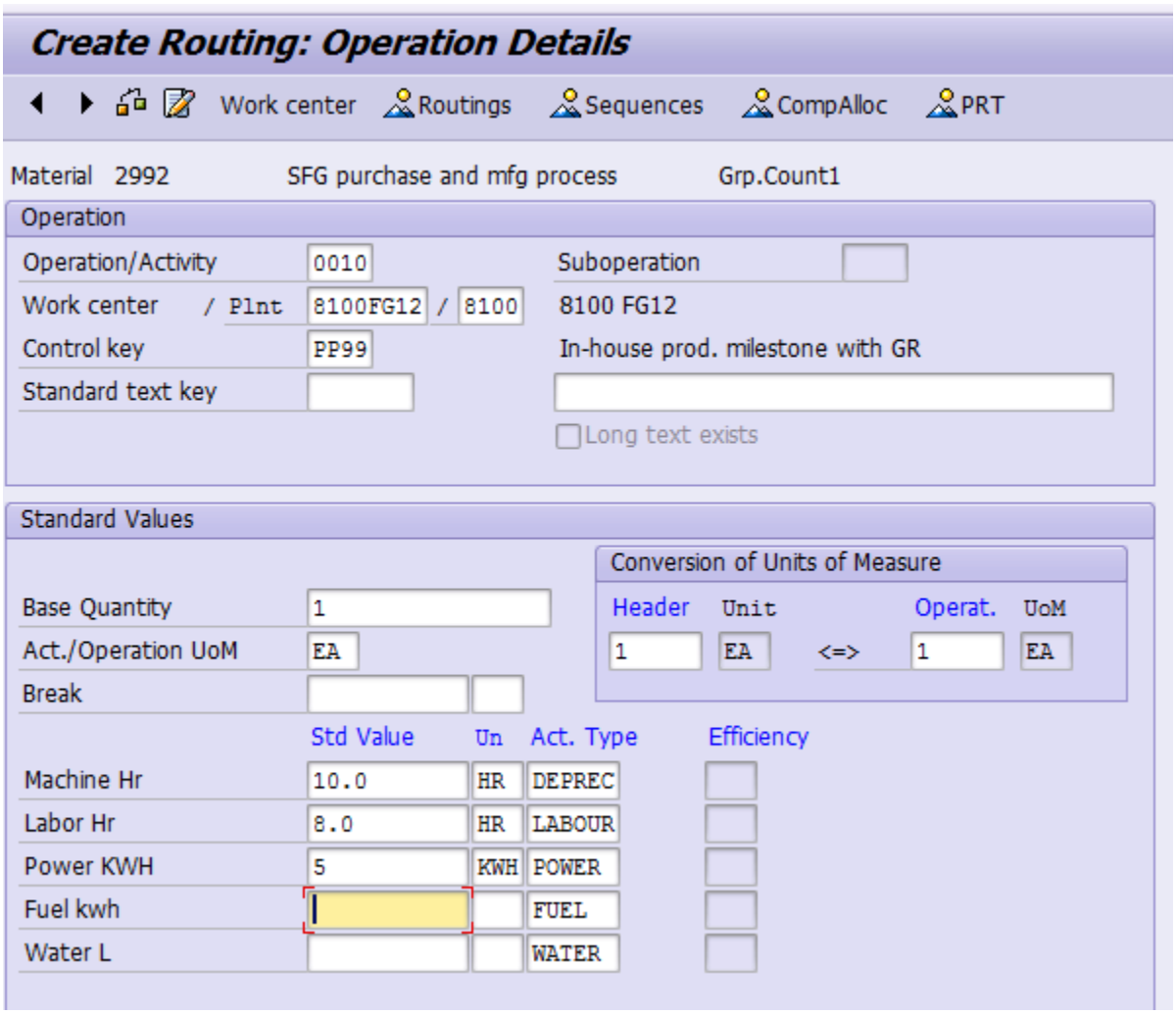


We can see stock for 8100-PUR valuation type.

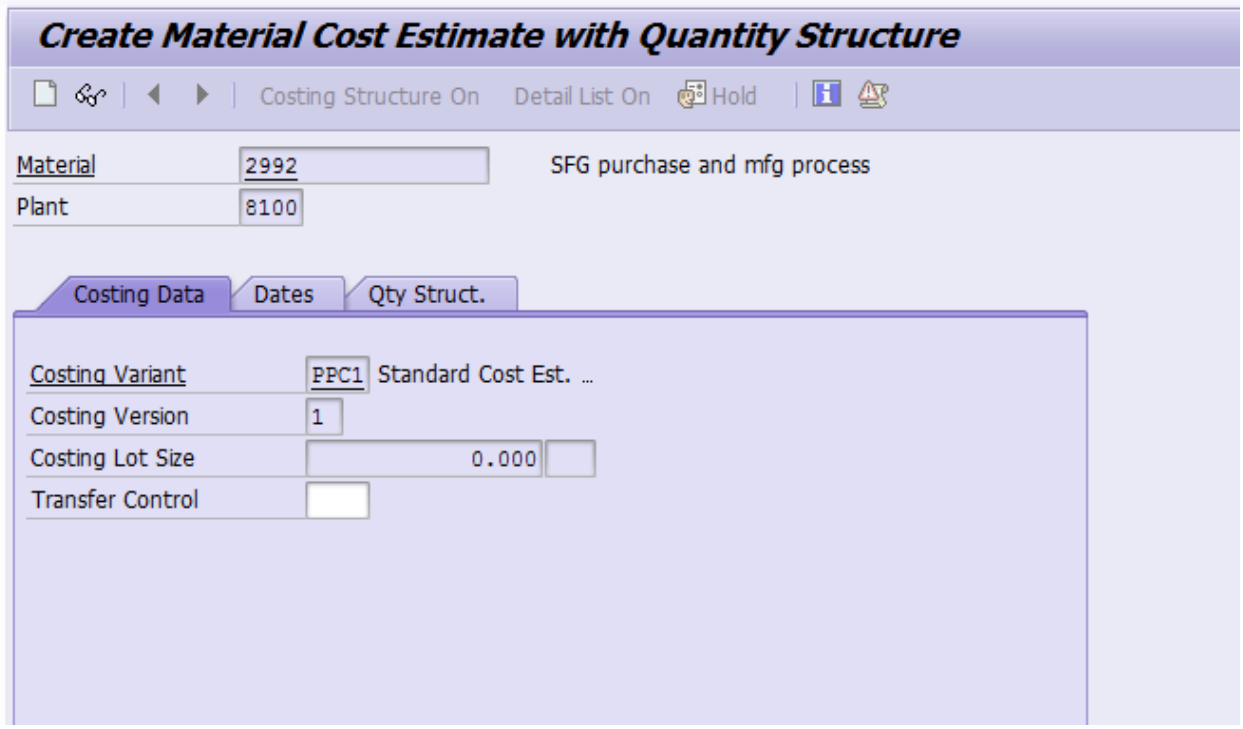
Now we can do production process for the same material.

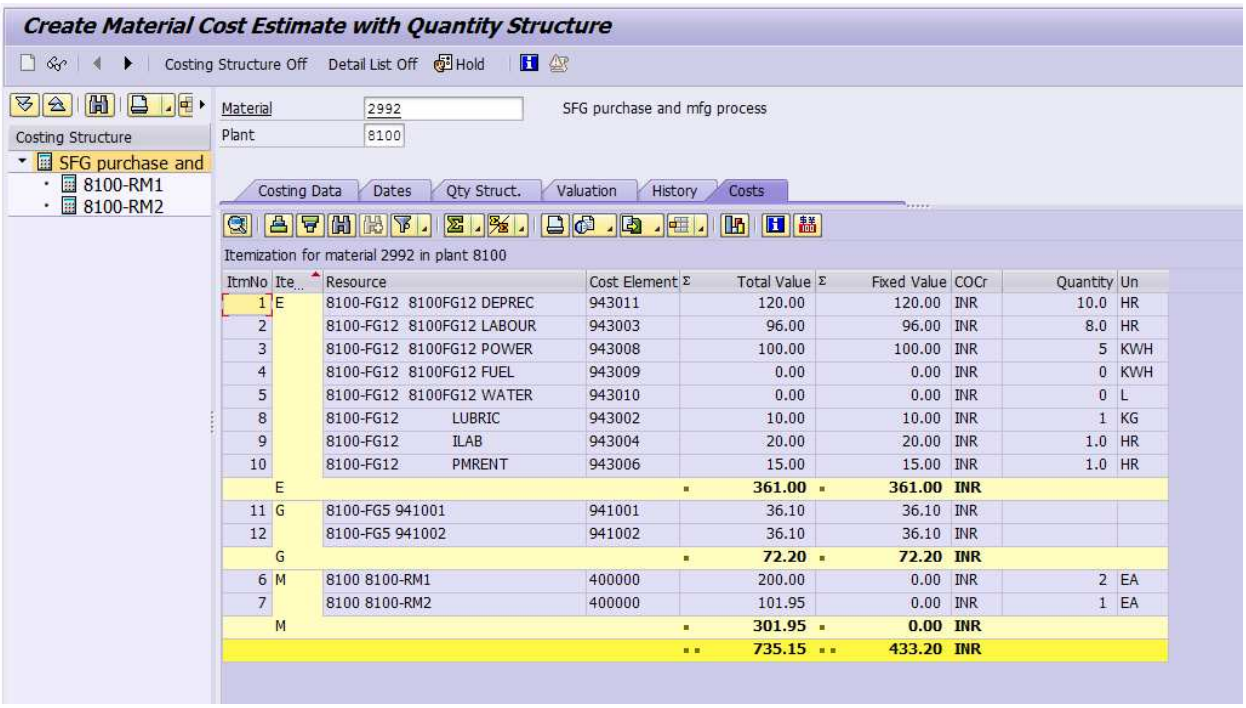
CS01-Bill of Material





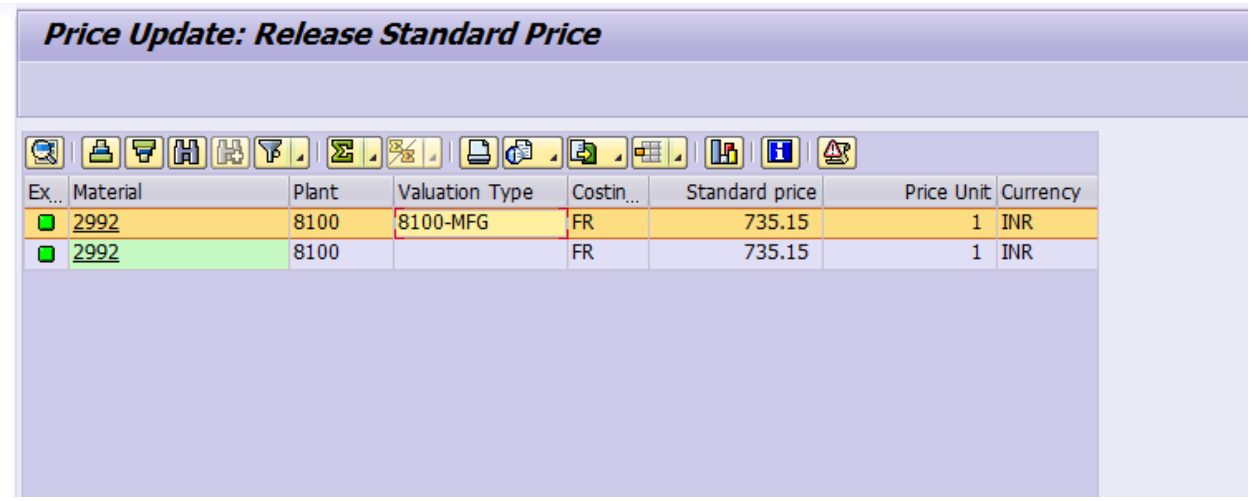
CK11N-Cost estimation





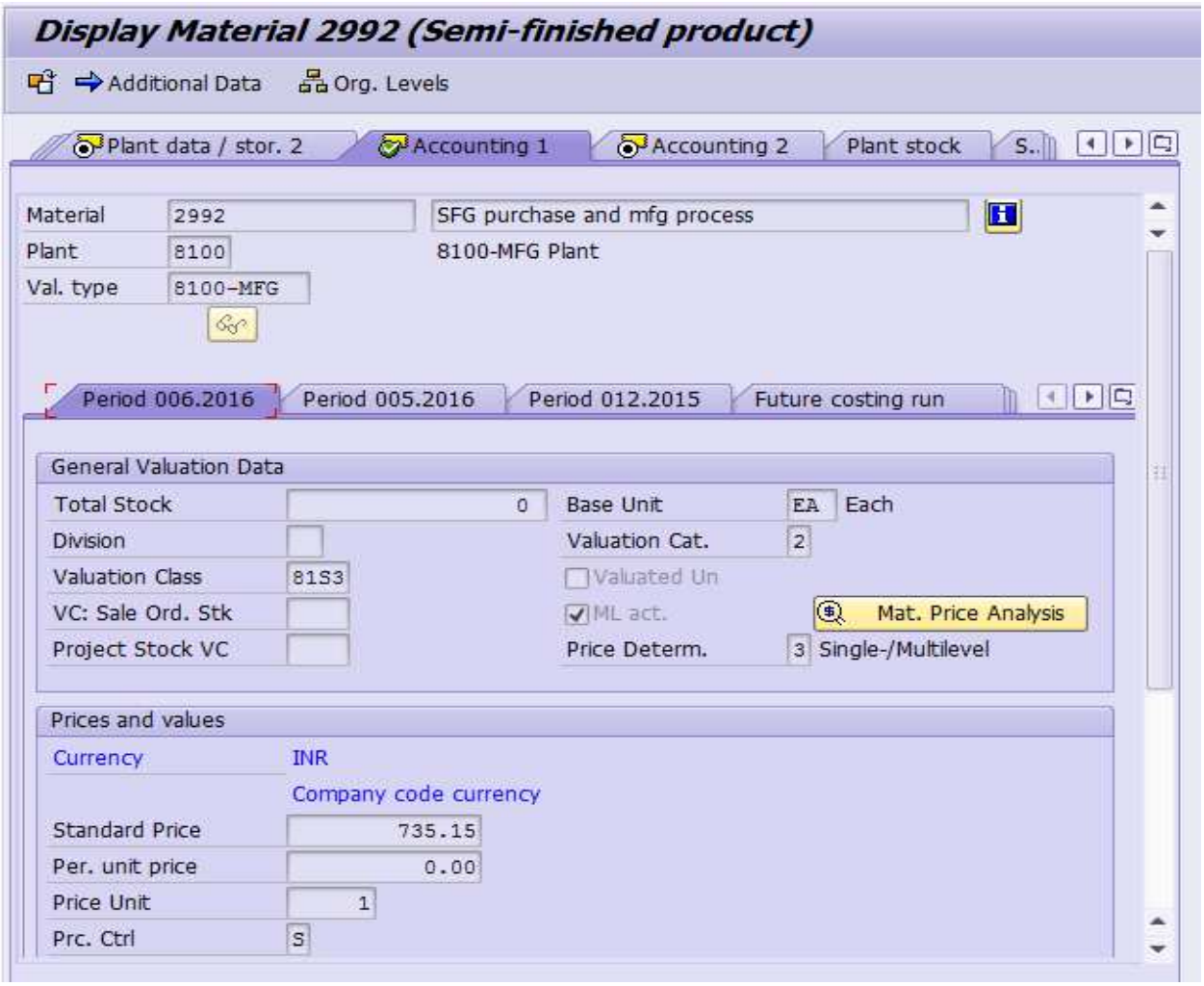
ItmNo	Ite...	Resource	Cost Element	Σ	Total Value	Σ	Fixed Value	COCr	Quantity	Un
1	E	8100-FG12 8100FG12 DEPREC	943011		120.00		120.00	INR	10.0	HR
2		8100-FG12 8100FG12 LABOUR	943003		96.00		96.00	INR	8.0	HR
3		8100-FG12 8100FG12 POWER	943008		100.00		100.00	INR	5	KWH
4		8100-FG12 8100FG12 FUEL	943009		0.00		0.00	INR	0	KWH
5		8100-FG12 8100FG12 WATER	943010		0.00		0.00	INR	0	L
8		8100-FG12 LUBRIC	943002		10.00		10.00	INR	1	KG
9		8100-FG12 ILAB	943004		20.00		20.00	INR	1.0	HR
10		8100-FG12 PMRENT	943006		15.00		15.00	INR	1.0	HR
	E				**361.00**		**361.00**	**INR**		
11	G	8100-FG5 941001	941001		36.10		36.10	INR		
12		8100-FG5 941002	941002		36.10		36.10	INR		
	G				**72.20**		**72.20**	**INR**		
6	M	8100 8100-RM1	400000		200.00		0.00	INR	2	EA
7		8100 8100-RM2	400000		101.95		0.00	INR	1	EA
	M				**301.95**		**0.00**	**INR**		
					735.15		**433.20**	**INR**		

CK24-Release standard Cost estimate



Here we can observe valutiontype will come at the time of released Standard Costing.

MM03



CO01-Production Order creation

Production Order Create: Initial Screen

Material	2992	
Production Plant	8100	8100-MFG Plant
Planning Plant		
Order Type	PP01	Standard Production Order (int. number)
Order		

Copy from

Order		

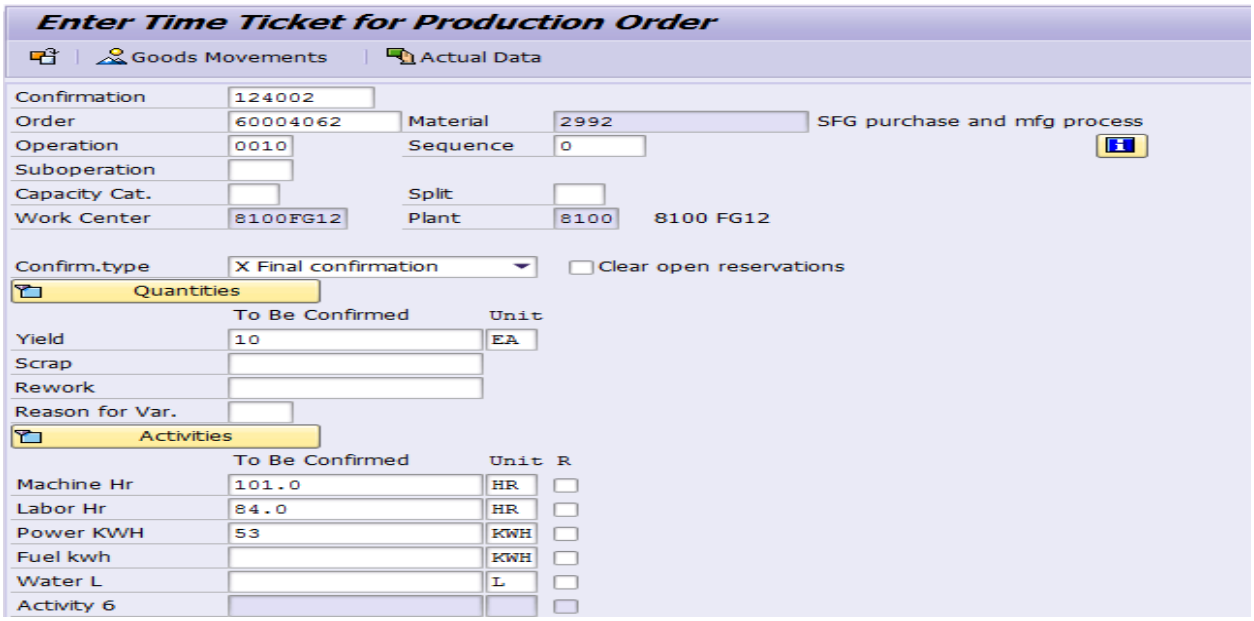
Order 60004062 000000000000002992
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 2992 SFG purchase and mfg process

Planned Quantity 10 EA Each

Cumulative Data

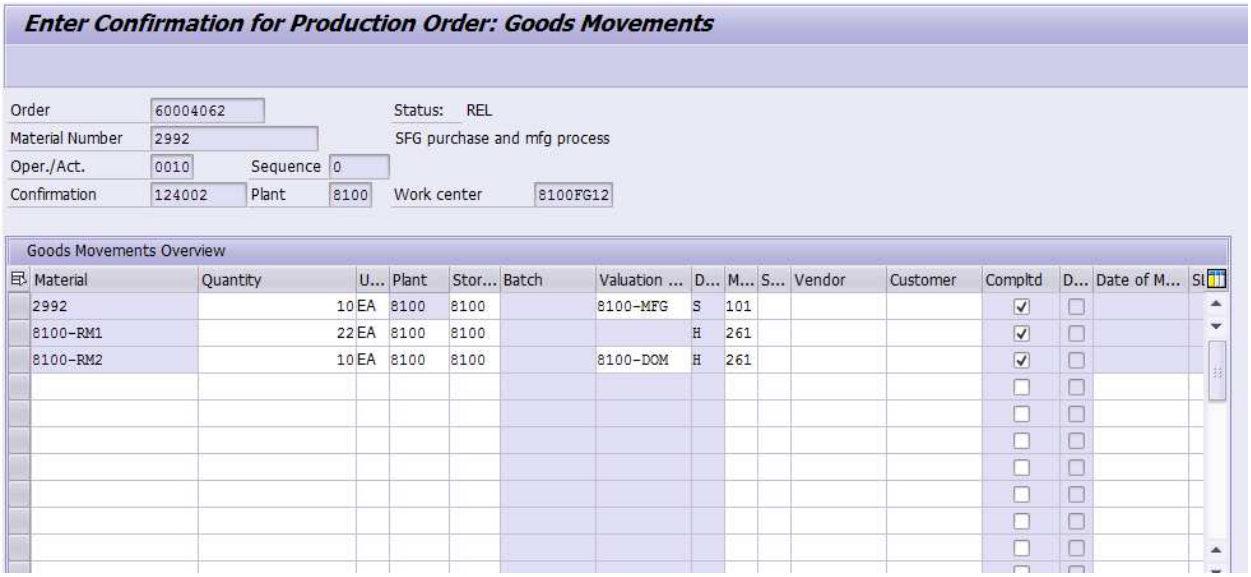
Transaction	Origin	Origin (Text)	Σ Total plan costs	Σ Total actual costs	Σ Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	0.00	2,000.00-	100.00-	INR
	8100/8100-RM2	8100-RM2	1,019.50	0.00	1,019.50-	100.00-	INR
Goods Issues			**3,019.50**	**0.00**	**3,019.50-**		**INR**
Confirmations	8100-FG12/LUBRIC	8100-FG12 / Lubricants	10.00	0.00	10.00-	100.00-	INR
	8100-FG12/LABOUR	8100-FG12 / Direct Labour	960.00	0.00	960.00-	100.00-	INR
	8100-FG12/ILAB	8100-FG12 / Indirect Labour	20.00	0.00	20.00-	100.00-	INR
	8100-FG12/PMRENT	8100-FG12 / P&M Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG12/POWER	8100-FG12 / Power	1,000.00	0.00	1,000.00-	100.00-	INR
	8100-FG12/DEPREC	8100-FG12 / Depreciation	1,200.00	0.00	1,200.00-	100.00-	INR
Confirmations			**3,205.00**	**0.00**	**3,205.00-**		**INR**
Overhead	8100-FG5	8100-FG5	320.50	0.00	320.50-	100.00-	INR
	8100-FG5	8100-FG5	320.50	0.00	320.50-	100.00-	INR
Overhead			**641.00**	**0.00**	**641.00-**		**INR**
Goods Receipt	8100/2992	SFG purchase and mfg process	7,351.50-	0.00	7,351.50	100.00-	INR
Goods Receipt			**7,351.50-**	**0.00**	**7,351.50**		**INR**
			486.00-	**0.00**	**486.00**		**INR**

CO11N

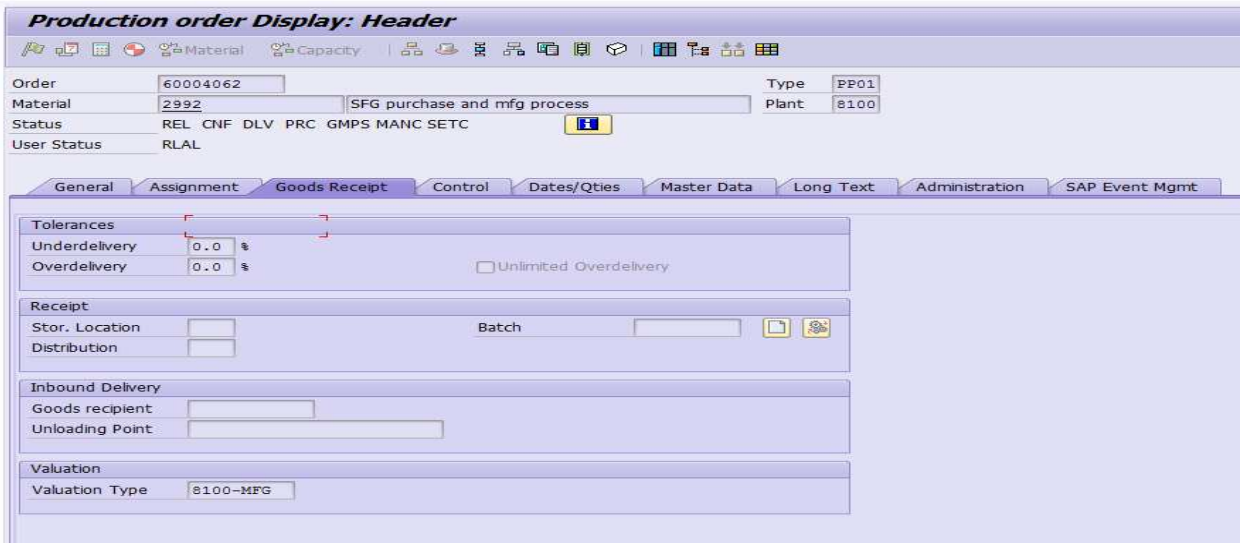


Goods Movement

Here 8100-RM2 valuation type assigned to 8100-DOM and default system will pick FG material 2992 as 8100-MFG.



CO03-



In Goods receipt tab we can see valuation type 8100-MFG.

Order 60004062 000000000000002992
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 2992 SFG purchase and mfg process

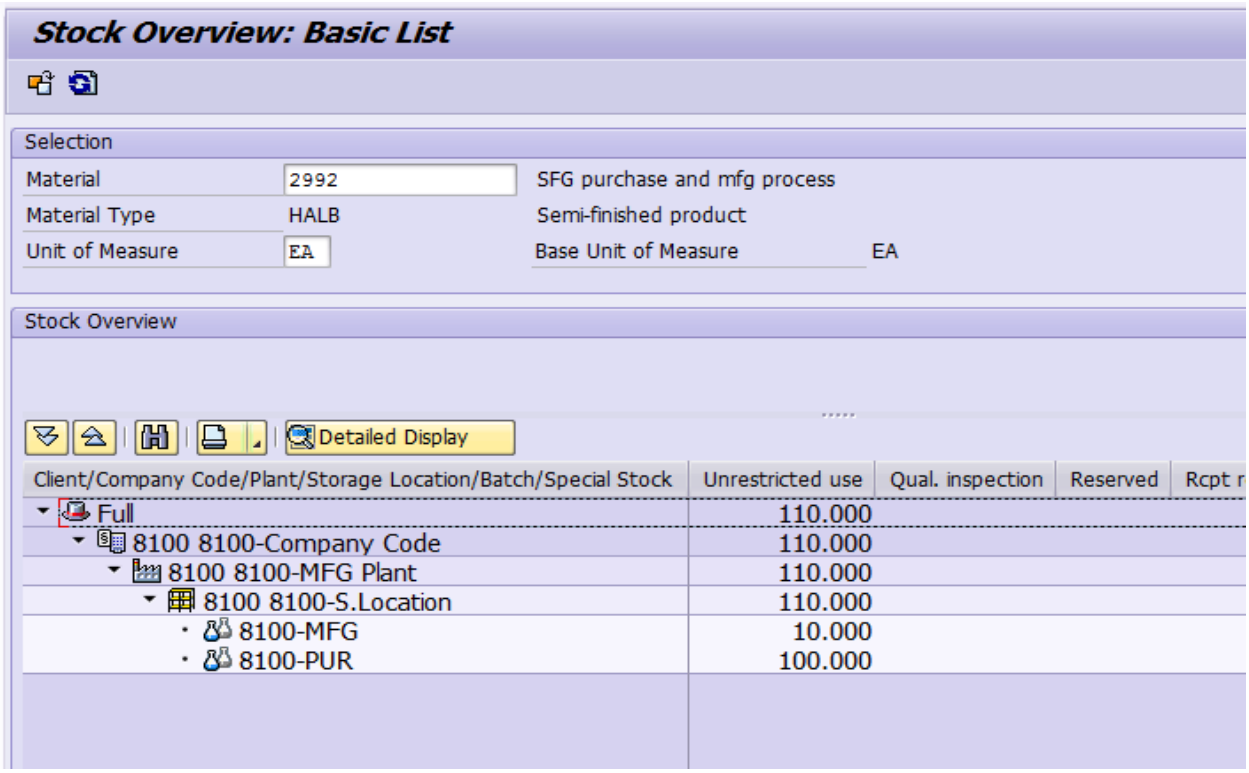
Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

Target Cost Version 0 Target Cost Version

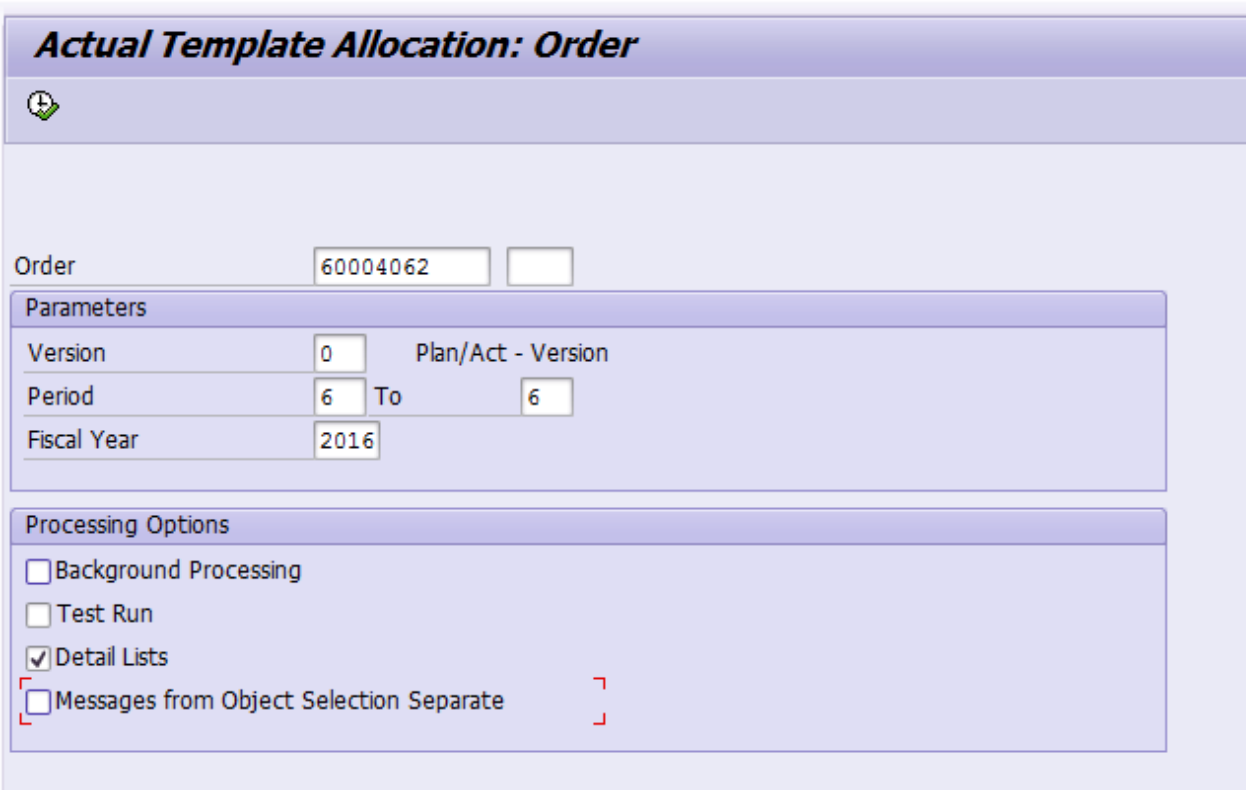
Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency	Res-usage var.
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,200.00	200.00	10.00	INR	0.00
	8100/8100-RM2	8100-RM2	1,019.50	0.00	1,019.50-	100.00-	INR	1,019.50-
	8100/8100-RM2	8100-RM2	0.00	1,000.00	1,000.00		INR	1,000.00
Goods Issues			**3,019.50**	**3,200.00**	**180.50**		**INR**	**19.50-**
Confirmations	8100-FG12/LUBRIC	8100-FG12 / Lubricants	10.00	0.00	10.00-	100.00-	INR	100.00-
	8100-FG12/LABOUR	8100-FG12 / Direct Labour	960.00	1,008.00	48.00	5.00	INR	0.00
	8100-FG12/ILAB	8100-FG12 / Indirect Labour	20.00	0.00	20.00-	100.00-	INR	200.00-
	8100-FG12/PMRENT	8100-FG12 / P&M Rent	15.00	0.00	15.00-	100.00-	INR	150.00-
	8100-FG12/POWER	8100-FG12 / Power	1,000.00	1,060.00	60.00	6.00	INR	0.00
	8100-FG12/DEPREC	8100-FG12 / Depreciation	1,200.00	1,212.00	12.00	1.00	INR	0.00
Confirmations			**3,205.00**	**3,280.00**	**75.00**		**INR**	**450.00-**
Overhead		(without origin)	320.50	0.00	320.50-	100.00-	INR	361.00-
		(without origin)	320.50	0.00	320.50-	100.00-	INR	361.00-
Overhead			**641.00**	**0.00**	**641.00-**		**INR**	**722.00-**
Goods Receipt	8100/2992	SFG purchase and mfg process	7,351.50-	7,351.50-	0.00		INR	0.00
Goods Receipt			**7,351.50-**	**7,351.50-**	**0.00**		**INR**	**0.00**
			486.00-	**871.50-**	**385.50-**		**INR**	**1,191.50-**

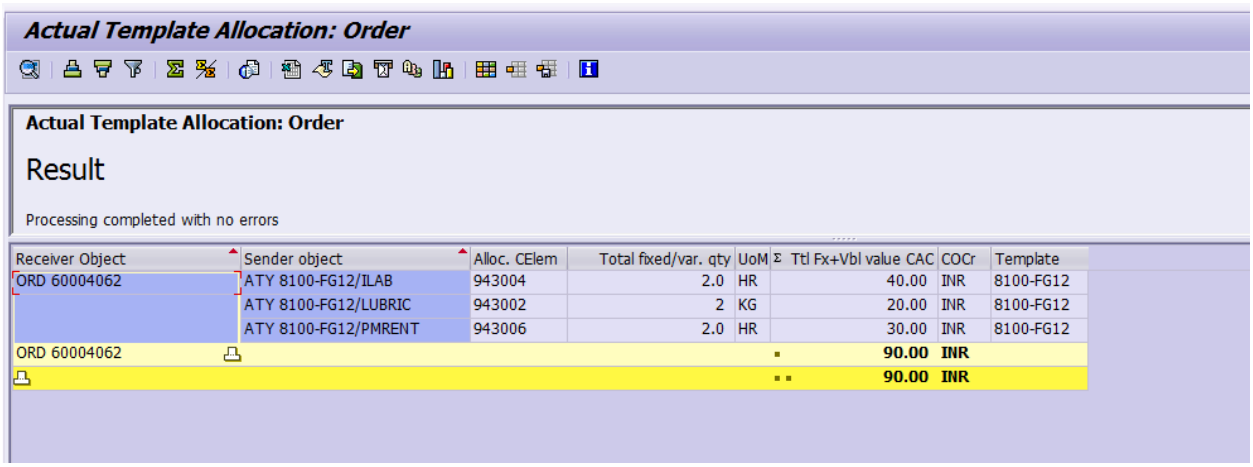
As earlier discussed as if consumption GBB-VBR GLs are different that price diff falls under Resource usage variance

MMBE

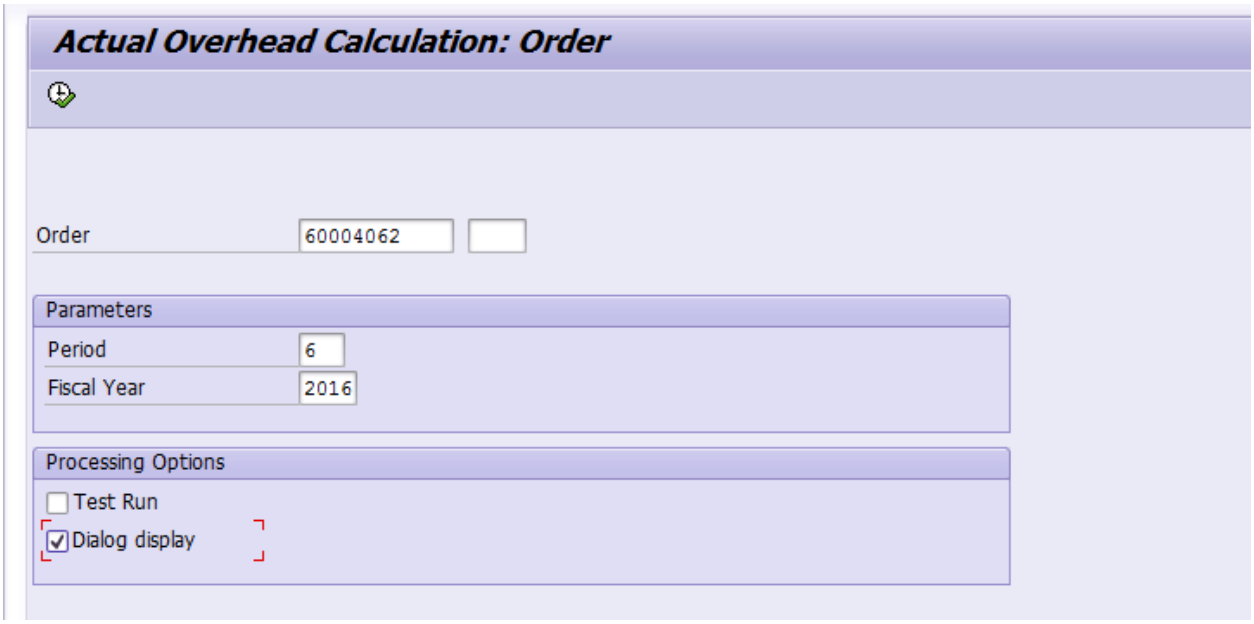


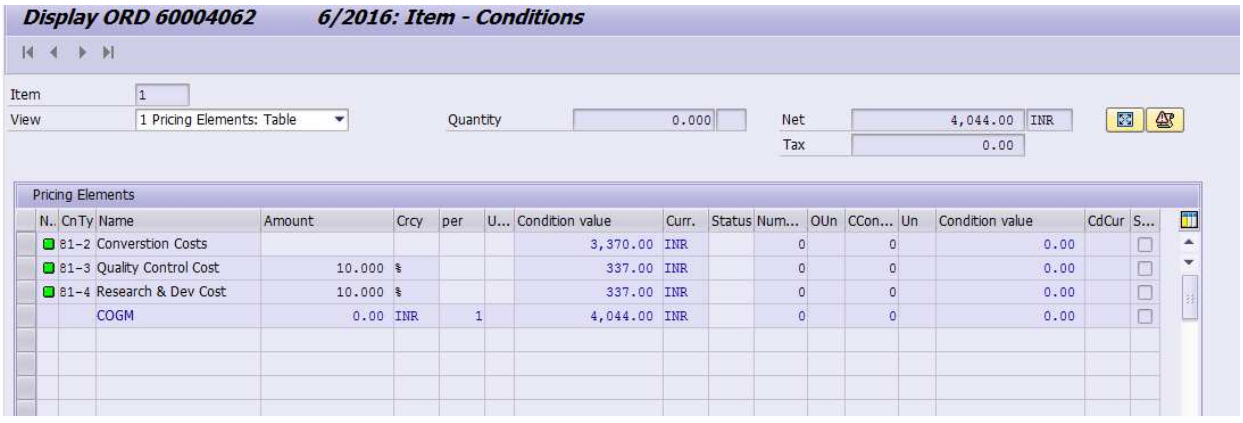
Template Allocation -CPTA - Individual Processing



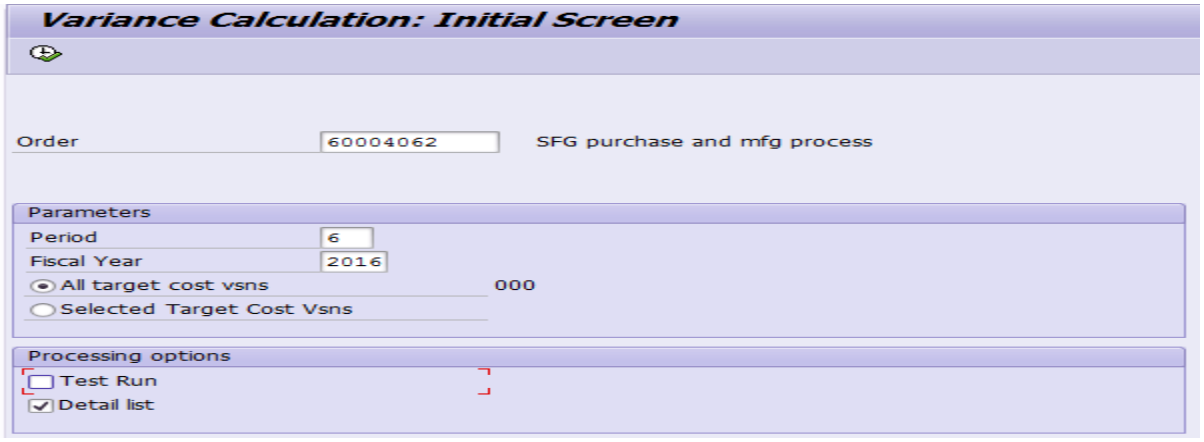


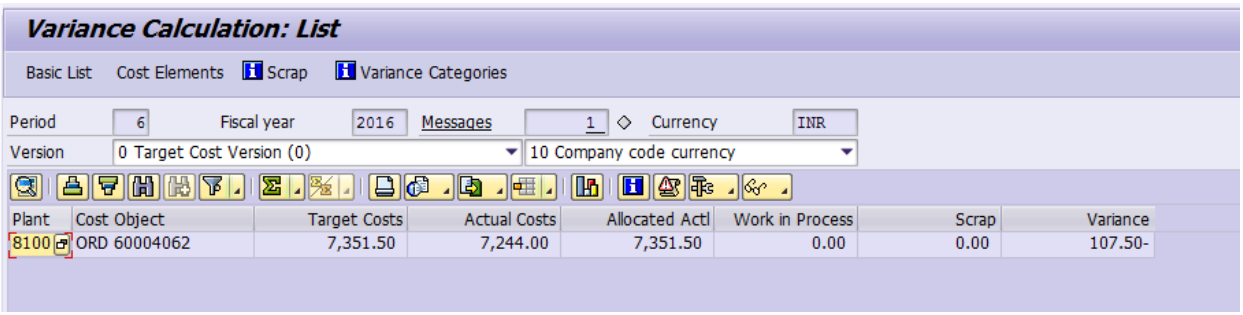
Overhead -KGI2 - Individual Processing



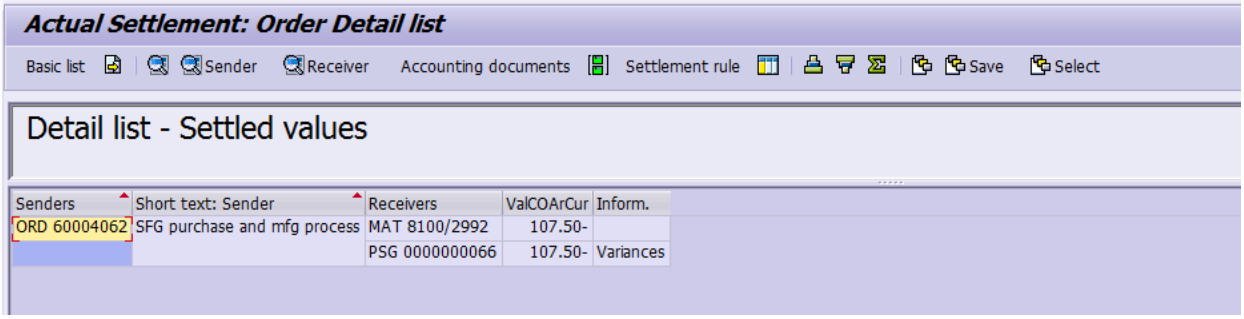


Variances -KKS2 - Individual Processing





Settlement -KO88 - Individual Processing

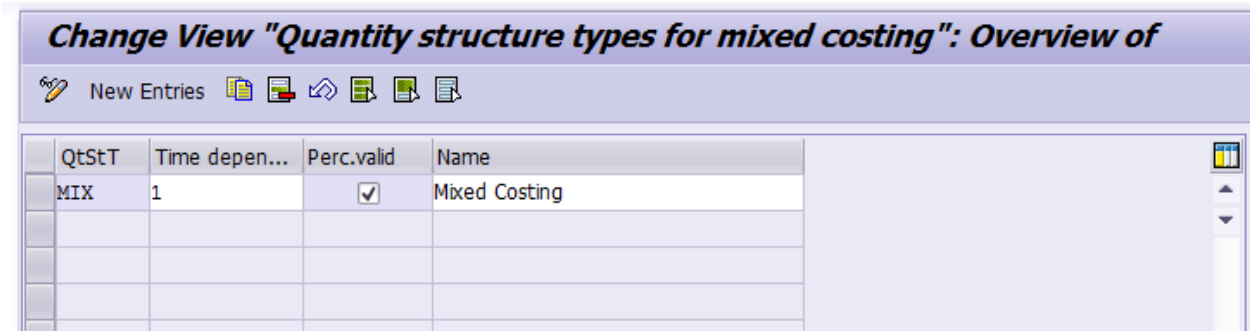


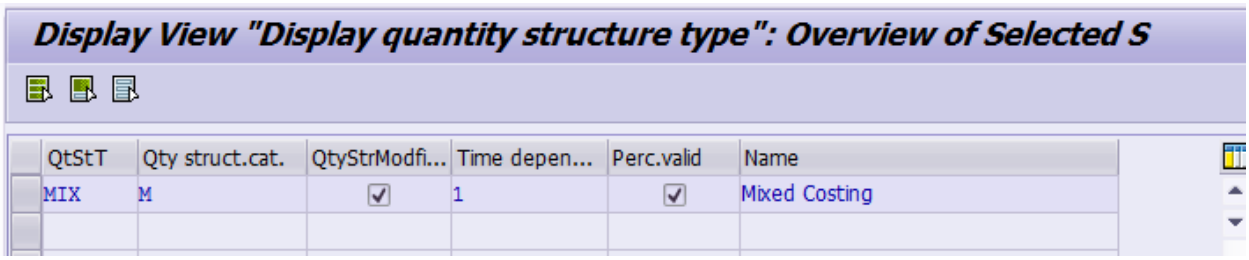
Split Valuation with Mixed Costing process

3).Multiple manufacturing process for FG Materials

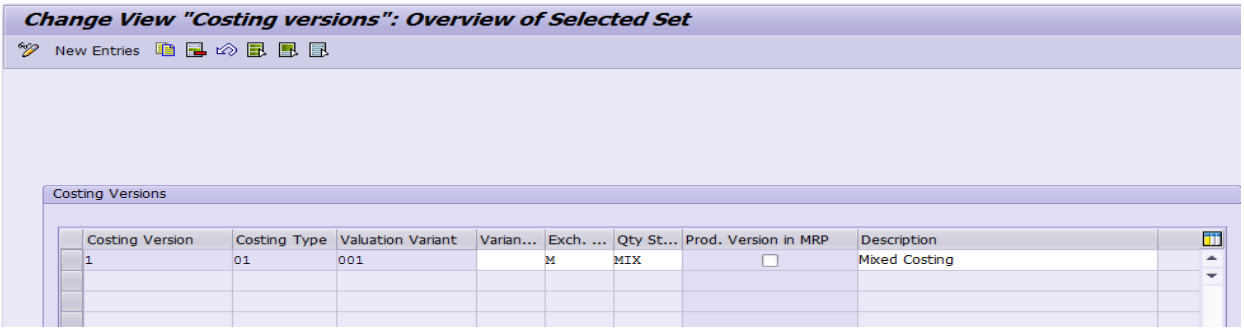
Configuration

Define Quantity Structure Types-OMXA

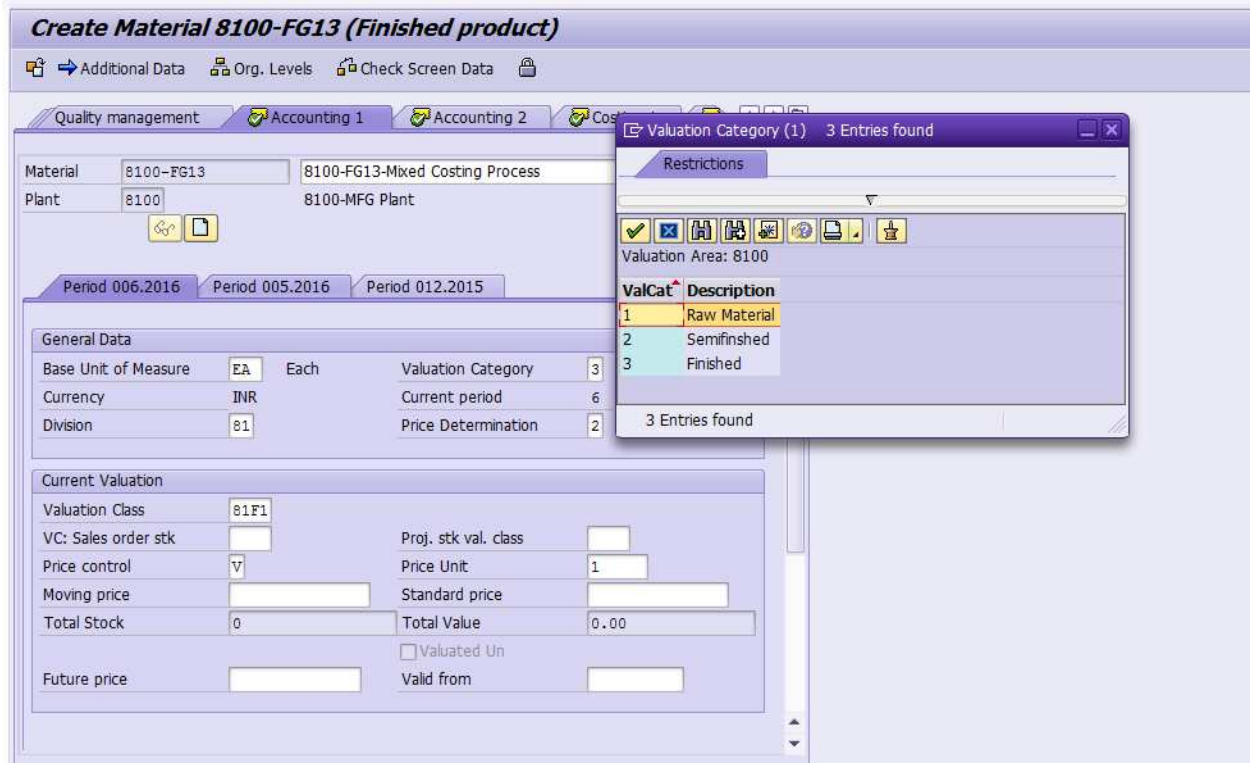


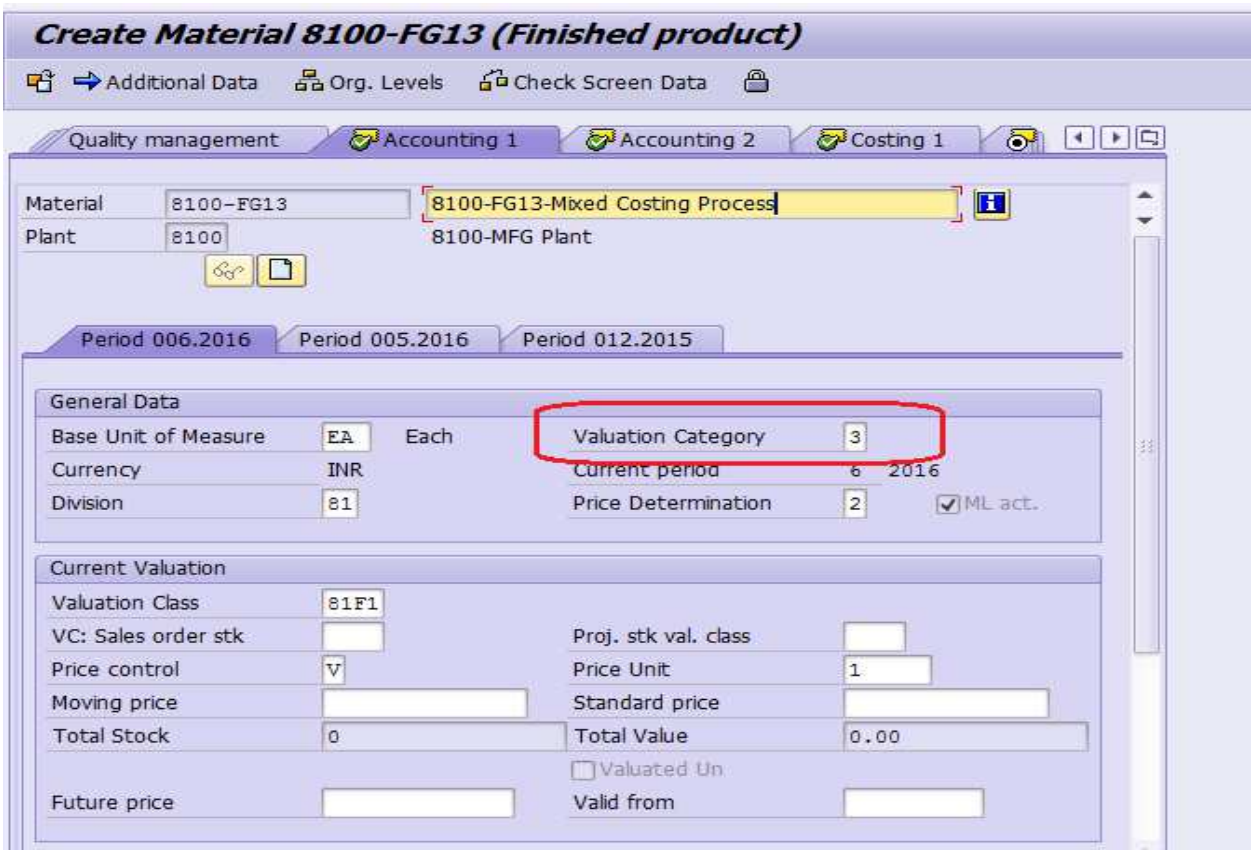


Define Costing Versions

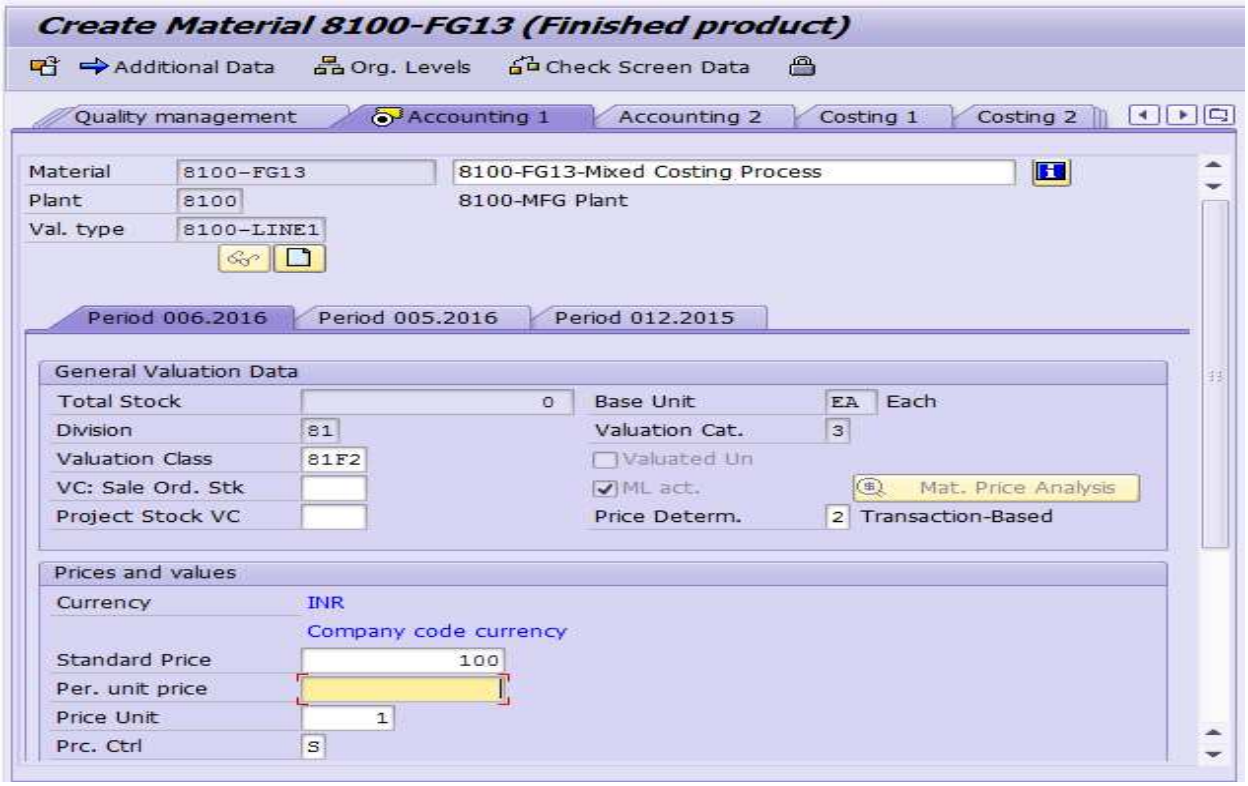


MM01-Material Master Creation

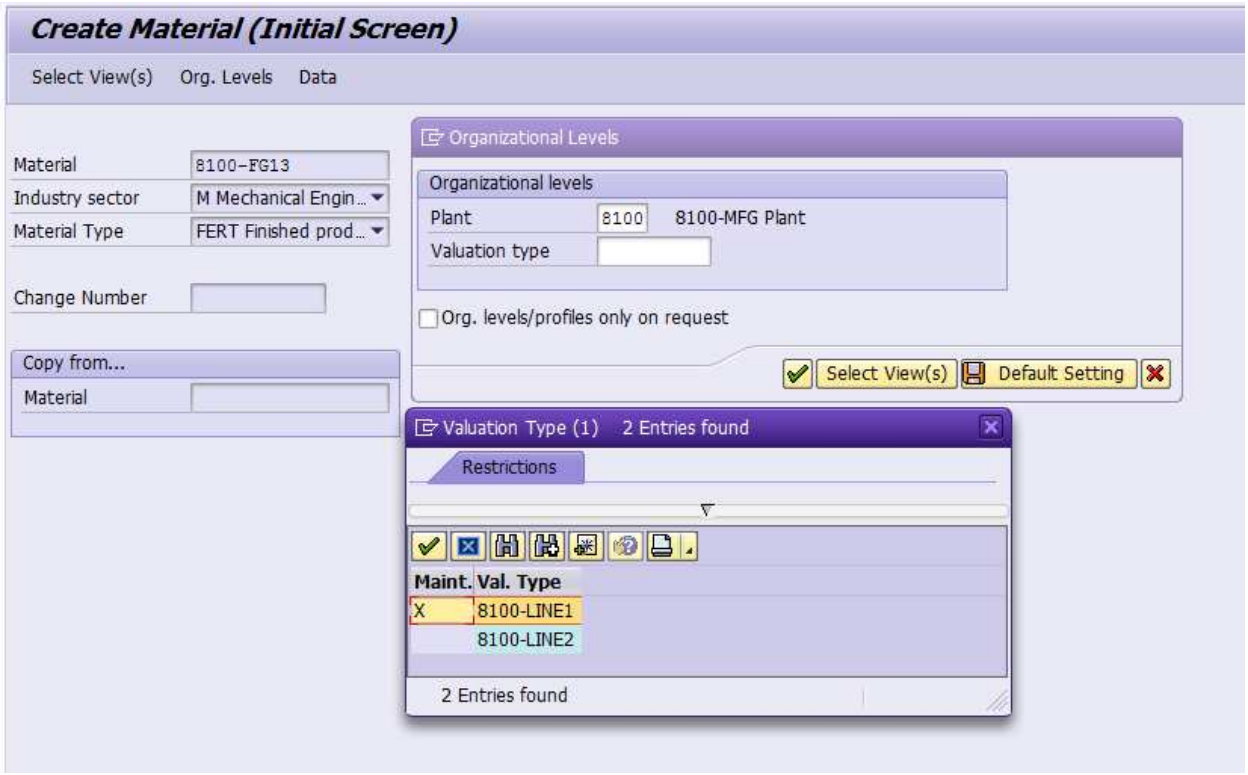


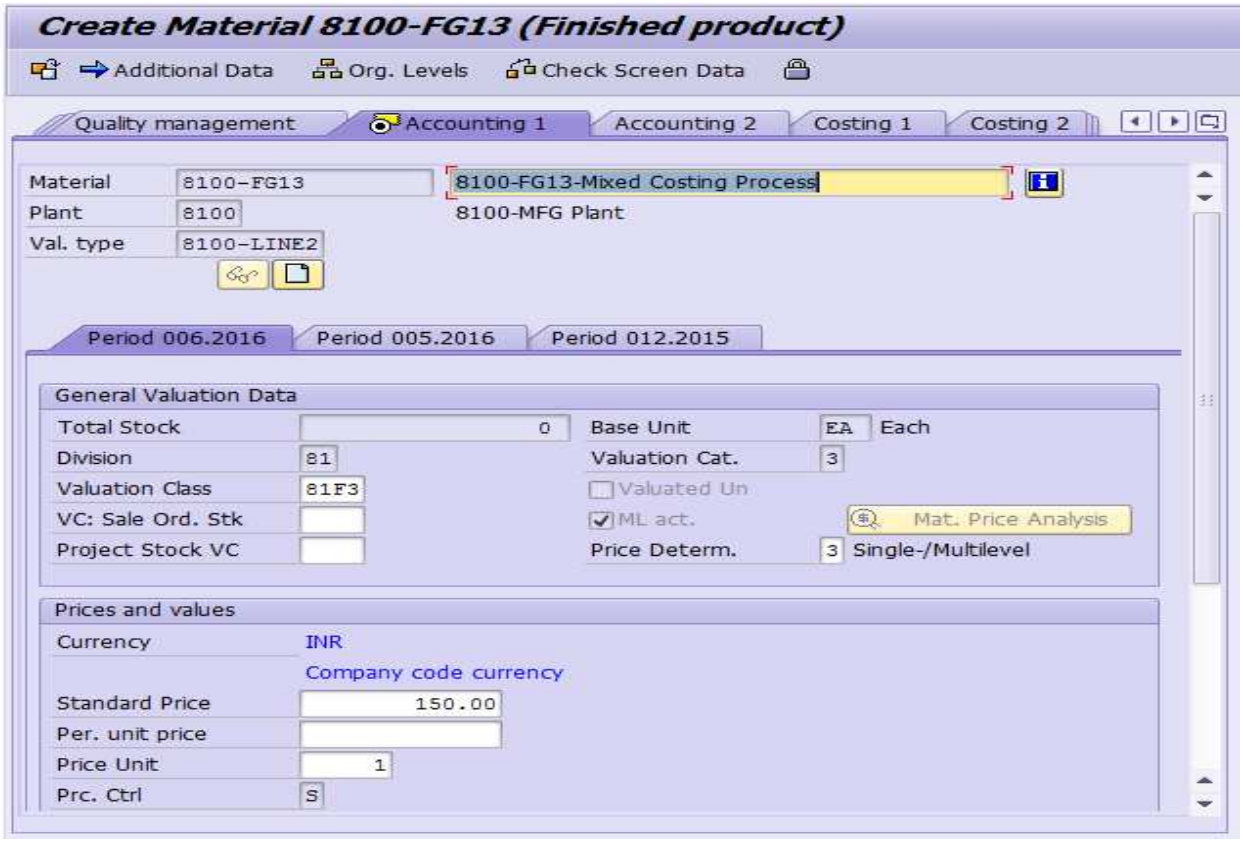


Extended with valuation Levels (8100-Line1 & Line2)-MM01



For 8100-Line2





CS01-Two Bill of Materials and Two Routing Creation for the same material

Display material BOM: General Item Overview

Subitems | Validity

Material 8100-FG13 8100-FG13-Mixed Costing Process
Plant 8100 8100-MFG Plant
Alternative BOM 2

Material | Document | General

Item	ICt	Component	Component description	Quantity	Un	A...	SIs	Valid From	Valid to	Change No.
0010	L	8100-RM2	8100-RM2	1	EA			16.06.2016	31.12.9999	
0020	L	8100-PACK	8100-PACK	1	EA			16.06.2016	31.12.9999	

CR01

Create Work Center: Cost Center Assignment

HRMS | Hierarchy | Template

Plant 8100 8100-MFG Plant
Work center 8100FG13 8100-FG13

Basic Data | Default Values | Capacities | Scheduling | Costing

Validity
Start date 16.06.2016 End Date 31.12.9999

Link to cost center/activity types
Controlling Area 8100 8100-Company Code
Cost Center 8100-FG13 8100-FG13

Activities Overview

Alt. activity descr.	Activity Type	Activity Unit	R...	Form...	Formula description
Machine Hr	DEPREC	HR		8881	Machine HR
Labor Hr	LABOUR	HR		8882	Labor HR
Power KWH	POWER	/H		8883	Power KWH
Fuel kwh	FUEL	KWH		8884	Fuel Kwh
Water L	WATER	L		8885	Water L

CA01

Display Routing: Operation Details

Work center | Routings | Sequences | CompAlloc | PRT

Material 8100-FG13 8100-FG13-Mixed Costing Process Grp.Count1

Operation
Operation/Activity 0010 Suboperation
Work center / Plnt 8100FG13 / 8100 8100-FG13
Control key PP99 In-house prod. milestone with GR
Standard text key
Long text exists

Standard Values

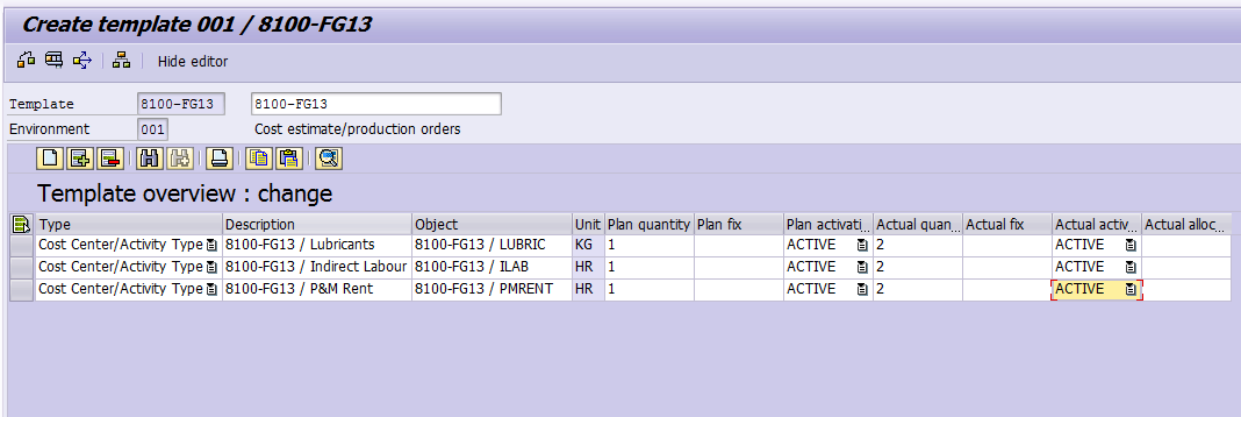
Base Quantity 1
Act./Operation UoM EA
Break 0.000

Conversion of Units of Measure

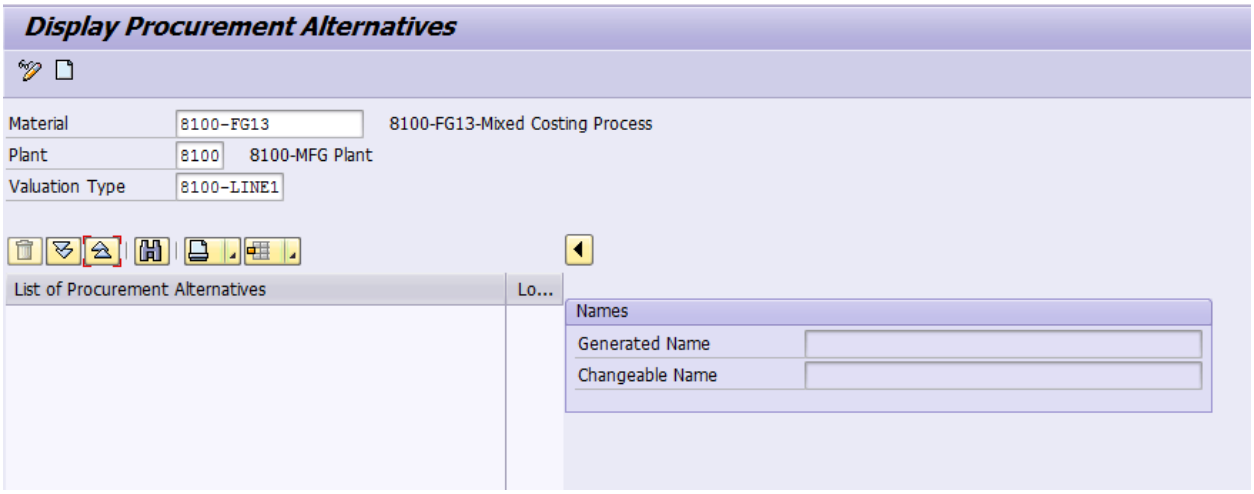
Header	Unit		Operat.	UoM
1	EA	<=>	1	EA

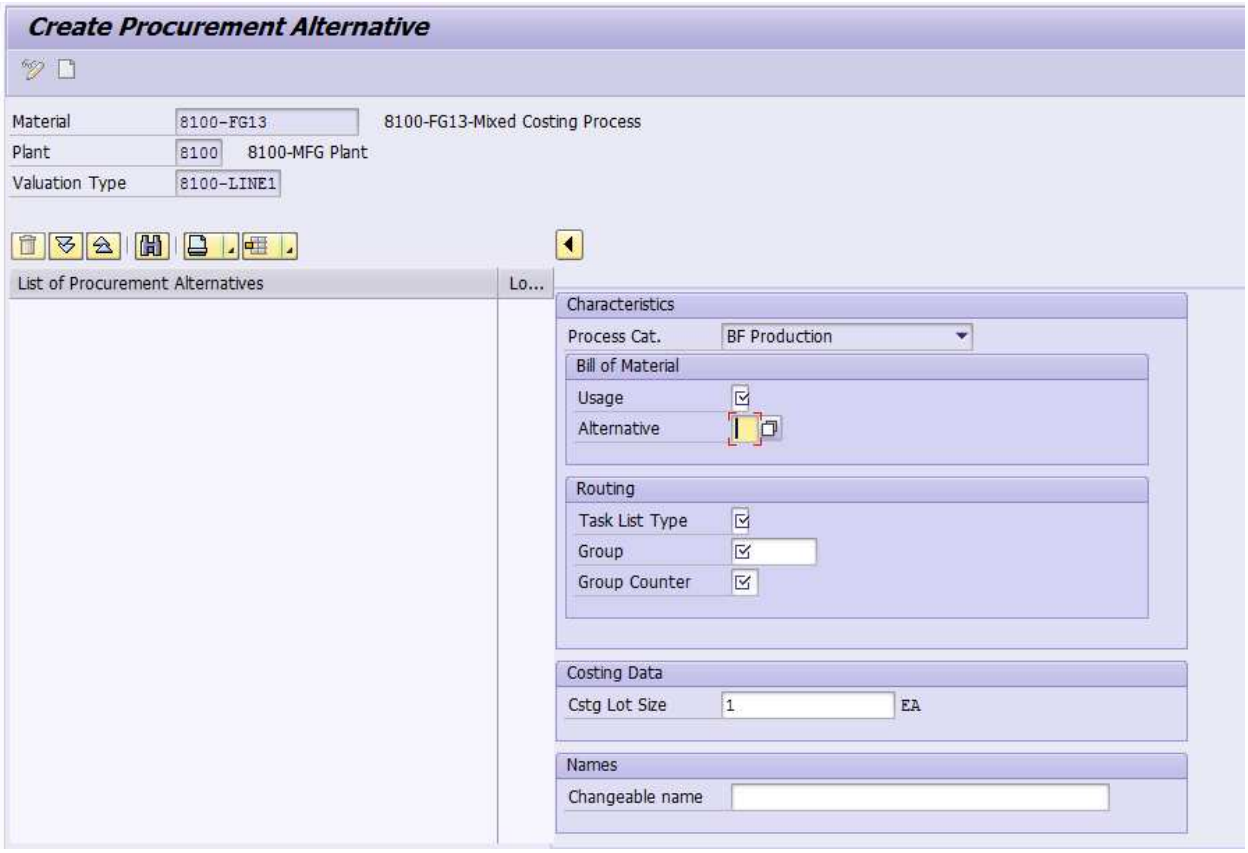
	Std Value	Un	Act. Type	Efficiency
Machine Hr	10.0	HR	DEPREC	
Labor Hr	8.0	HR	LABOUR	
Power KWH	5	KWH	POWER	
Fuel kwh	0.000		FUEL	
Water L	0.000		WATER	

Template allocation

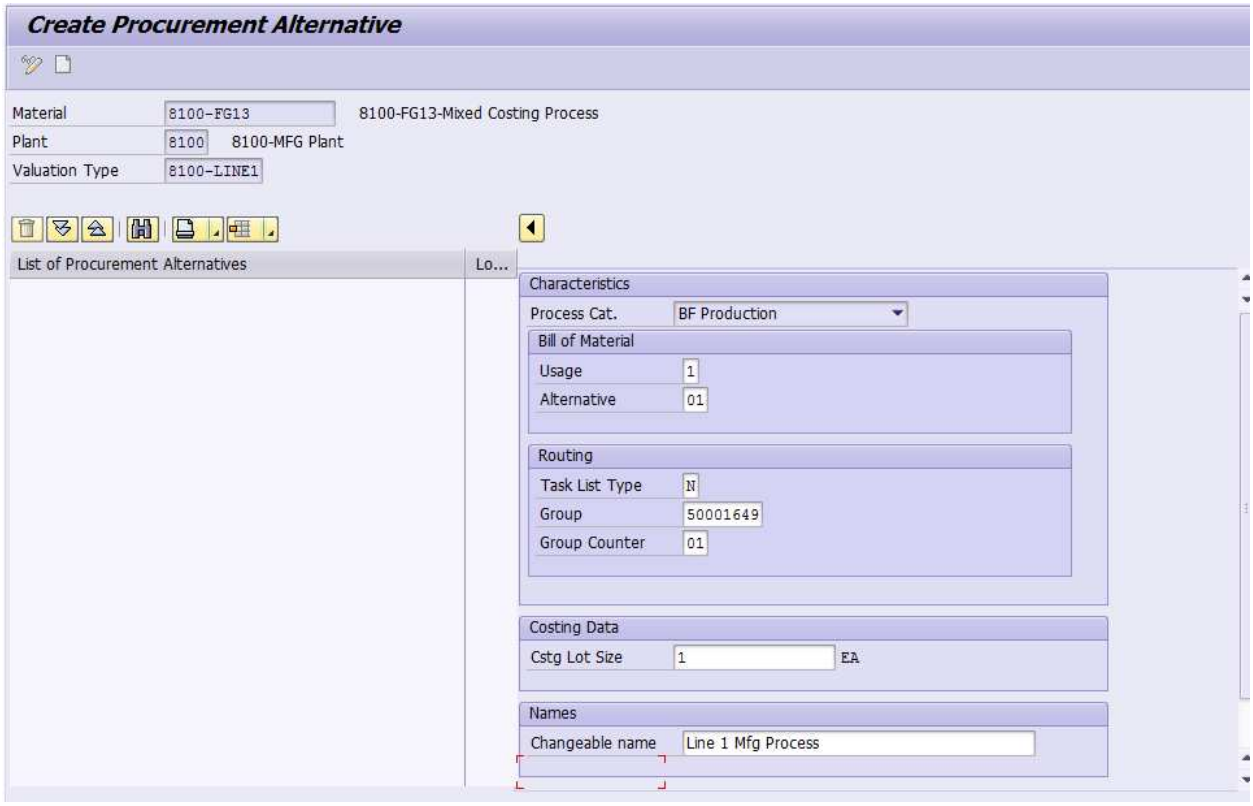


Master Data for Mixed Cost Estimate -CK91N - Edit Procurement Alternatives



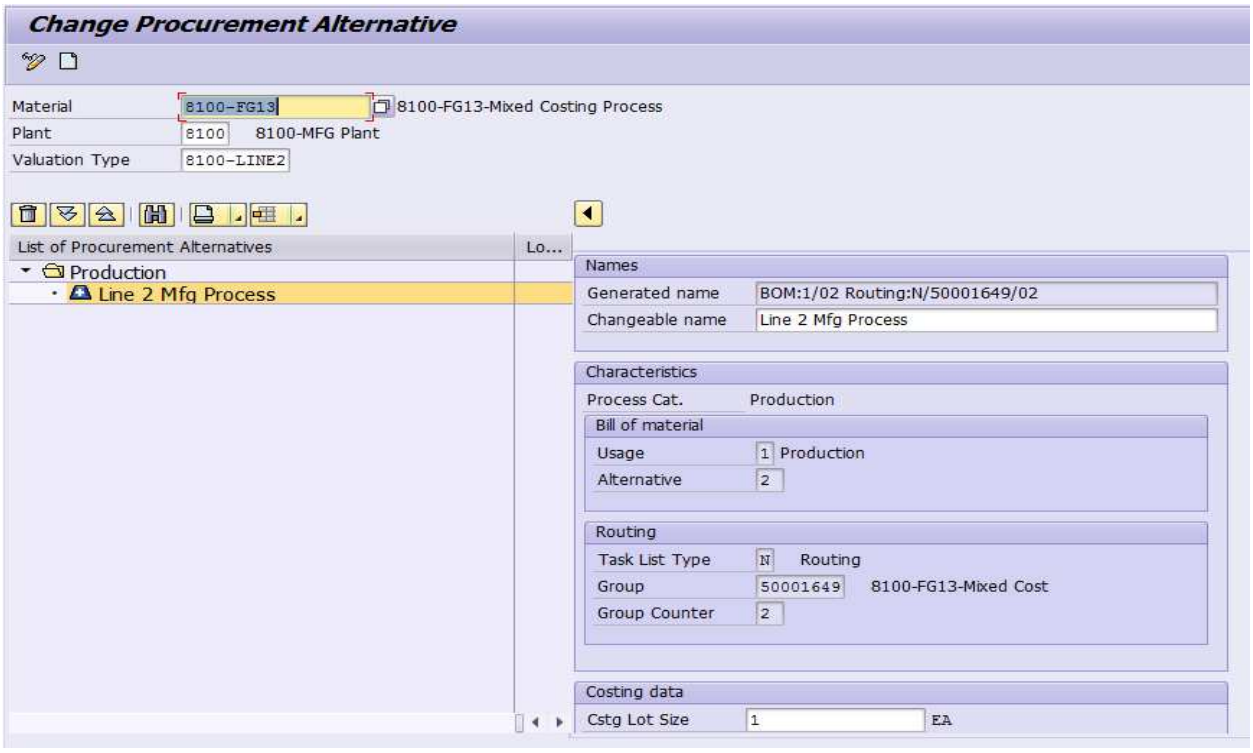


Choose BOM & Routing 1 st Combination

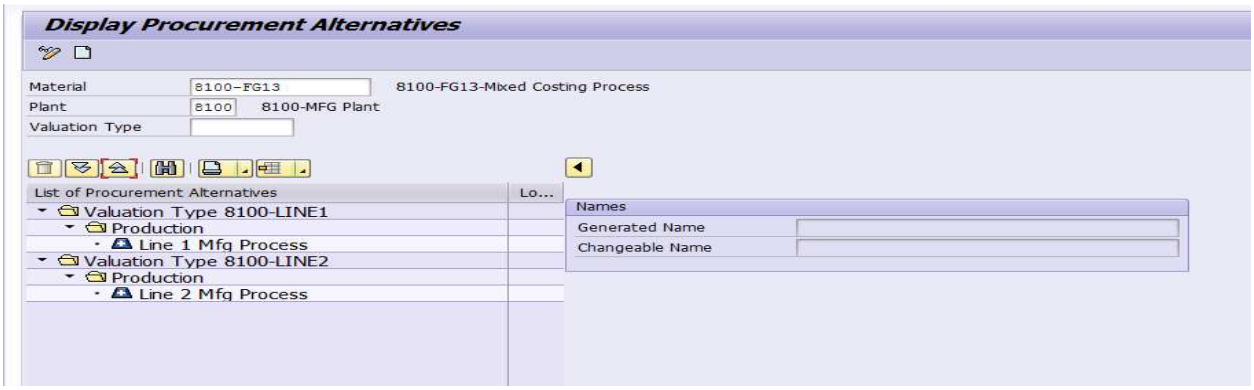


And then click on confirm and save button

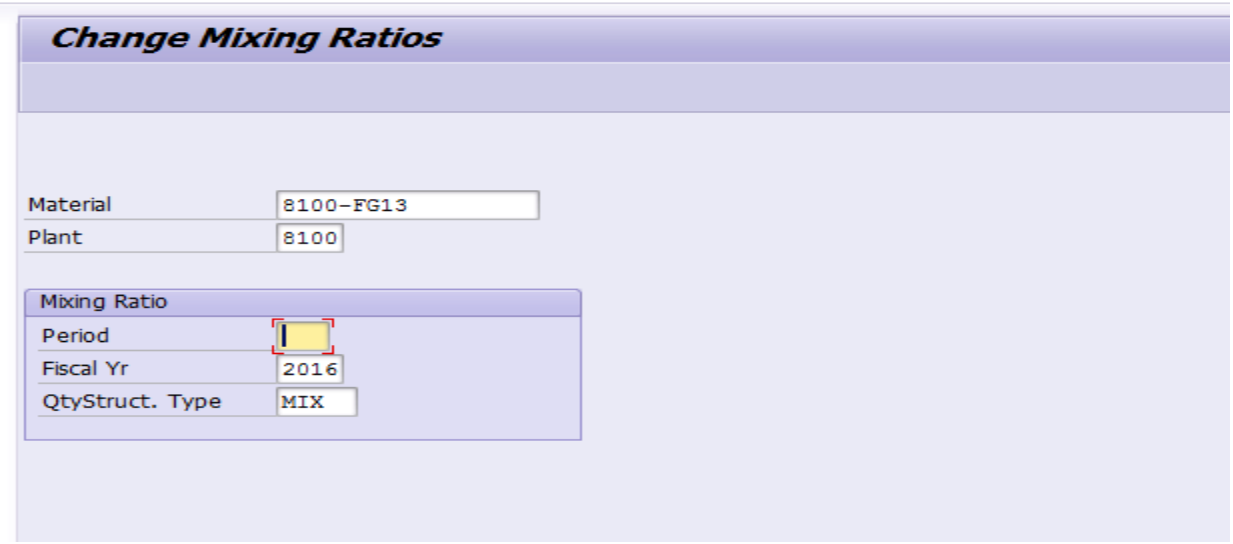
Similarly Second Valuation type- 8100-LINE2

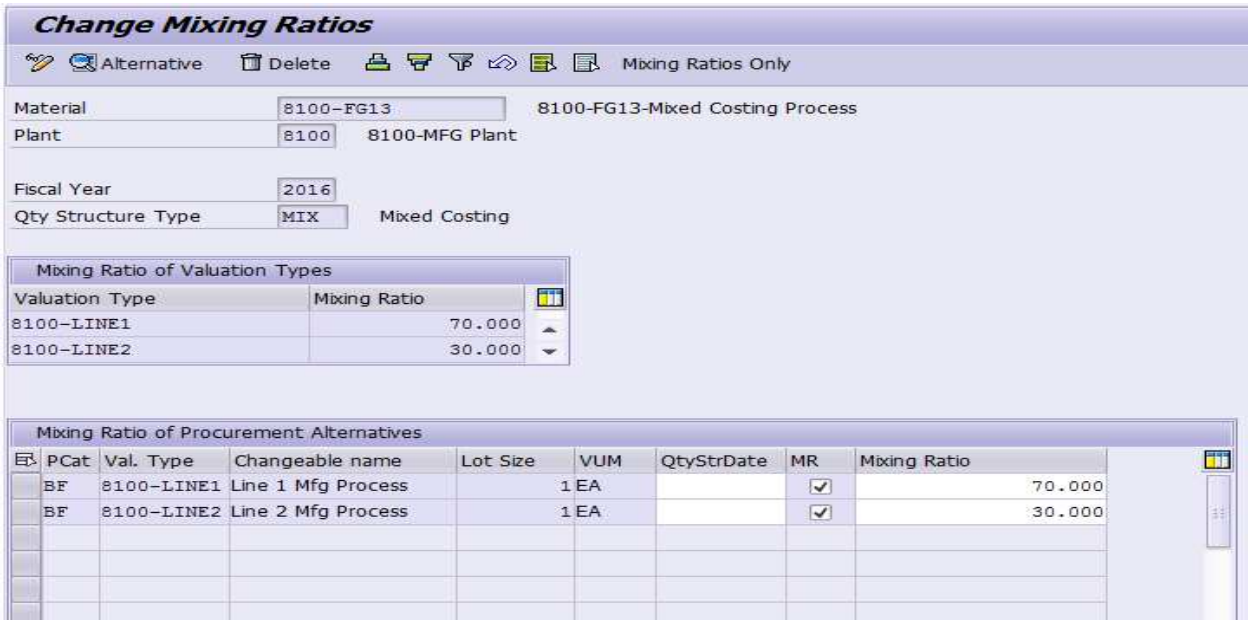


We can see overall

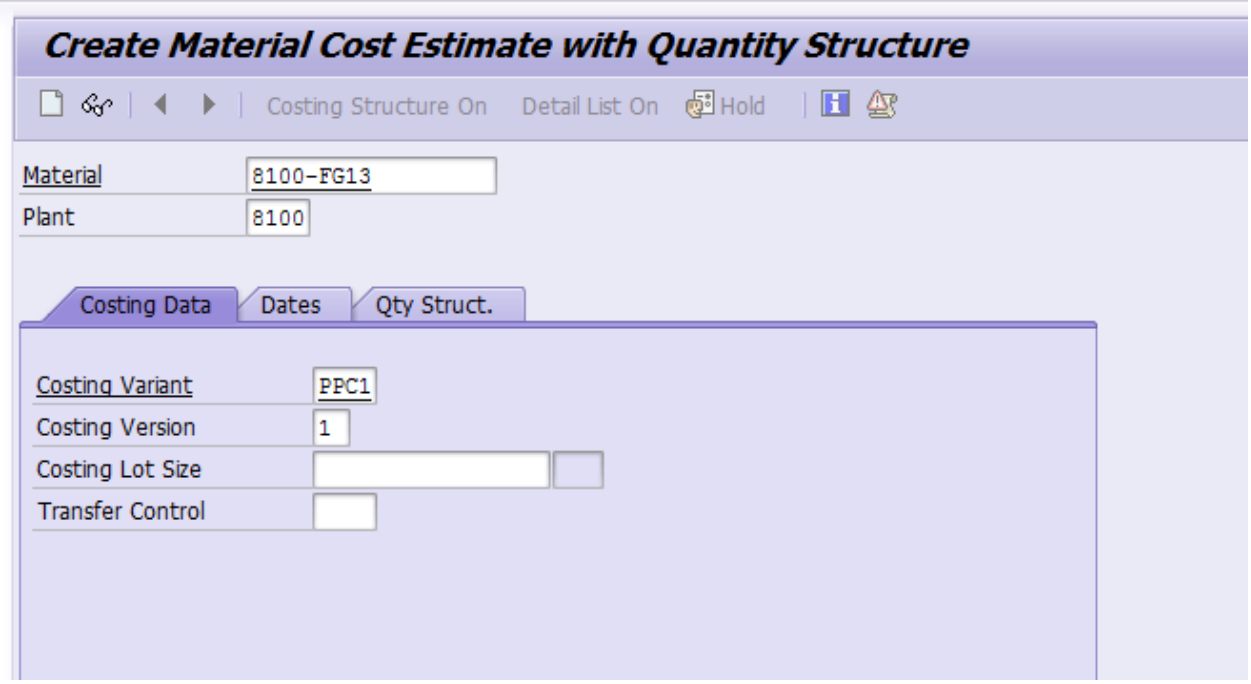


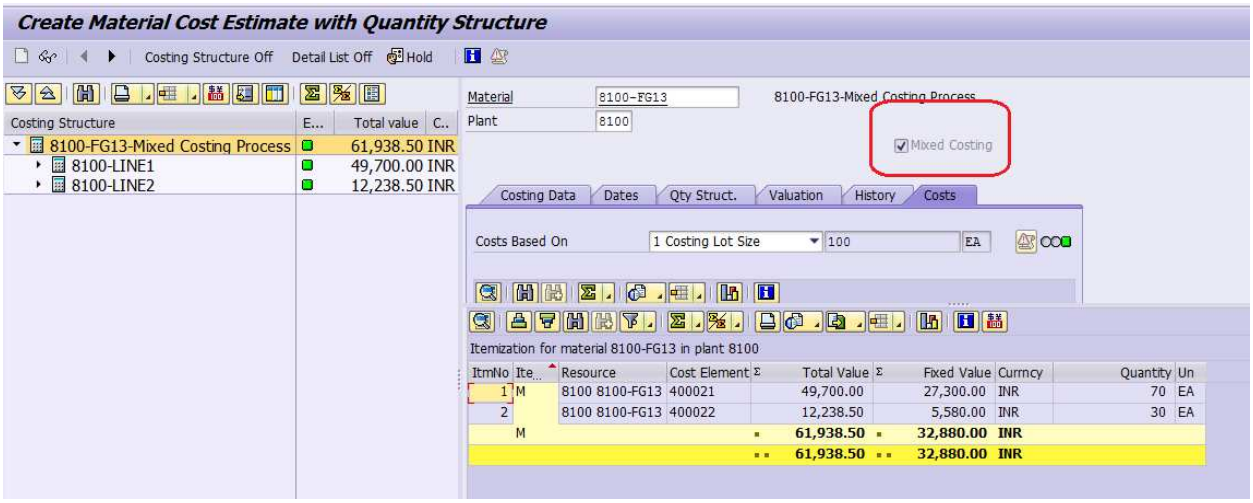
Mixing Ratios -CK94 - Create/Change





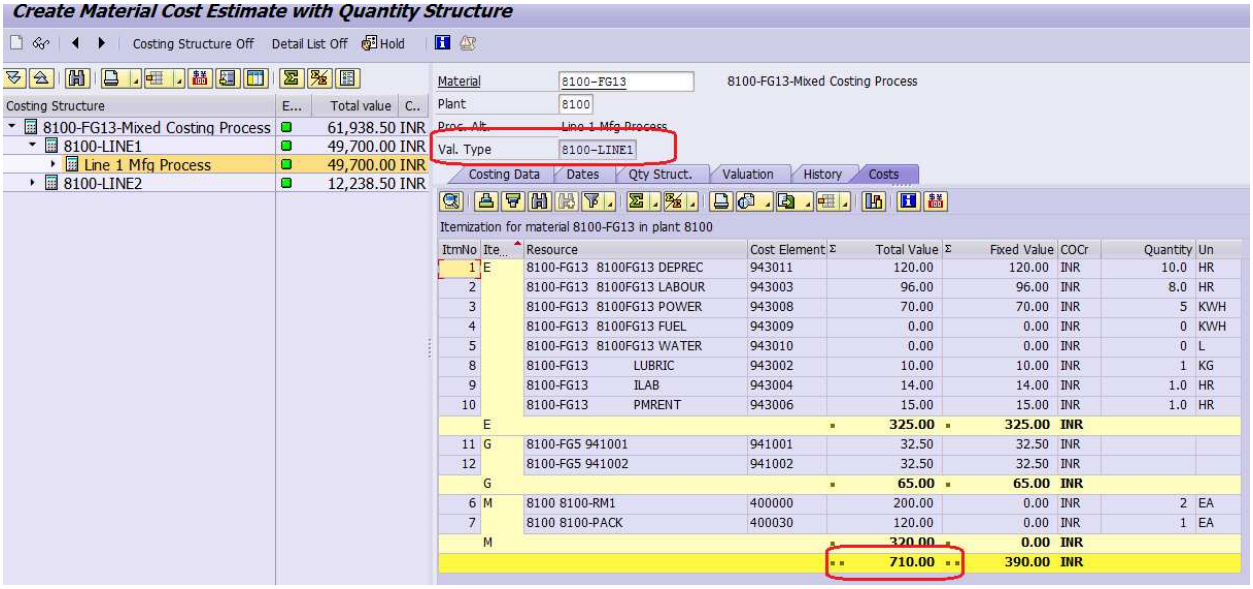
Cost Estimate with Quantity Structure- CK11N – Create



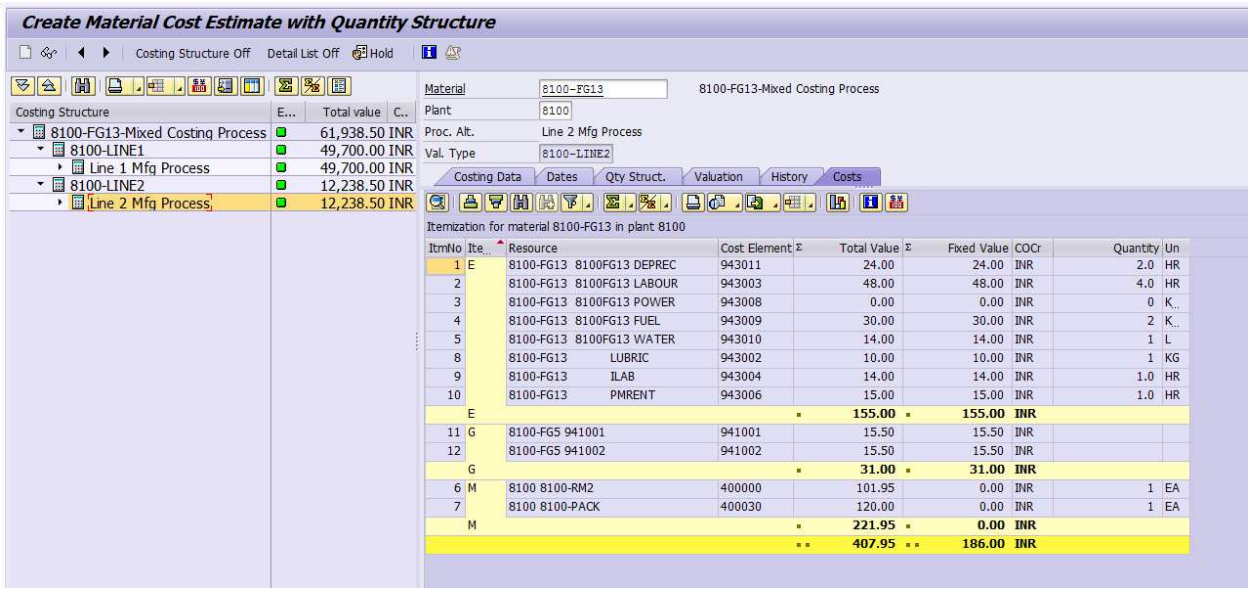


We can see Mixed Costing activation

Line 1 mfg process



Line 2 mfg process



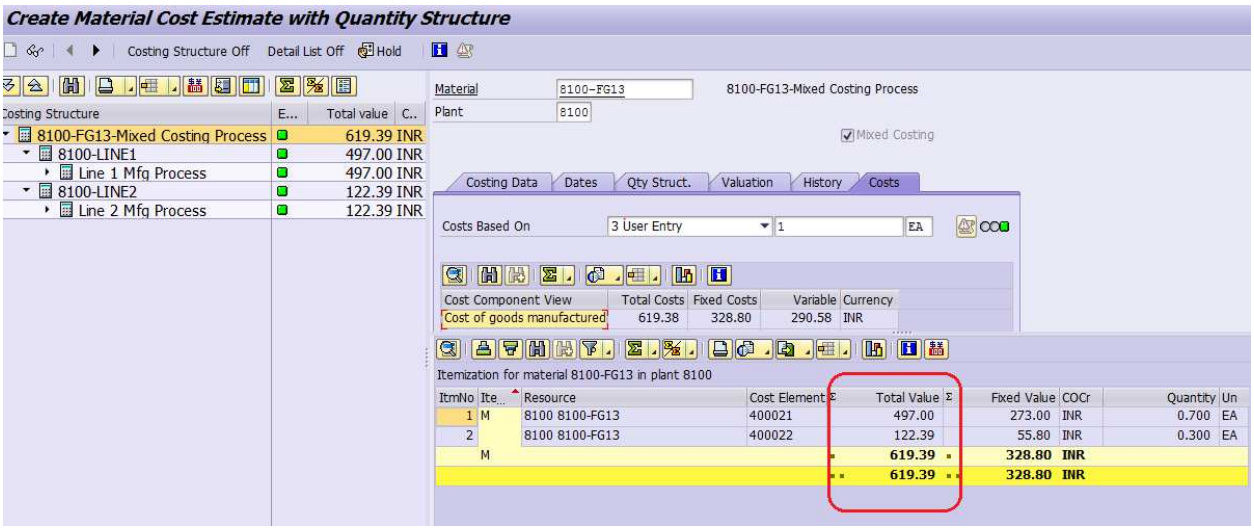
Line1 mfg cost : 710

Line 2 mfg cost : 407.95

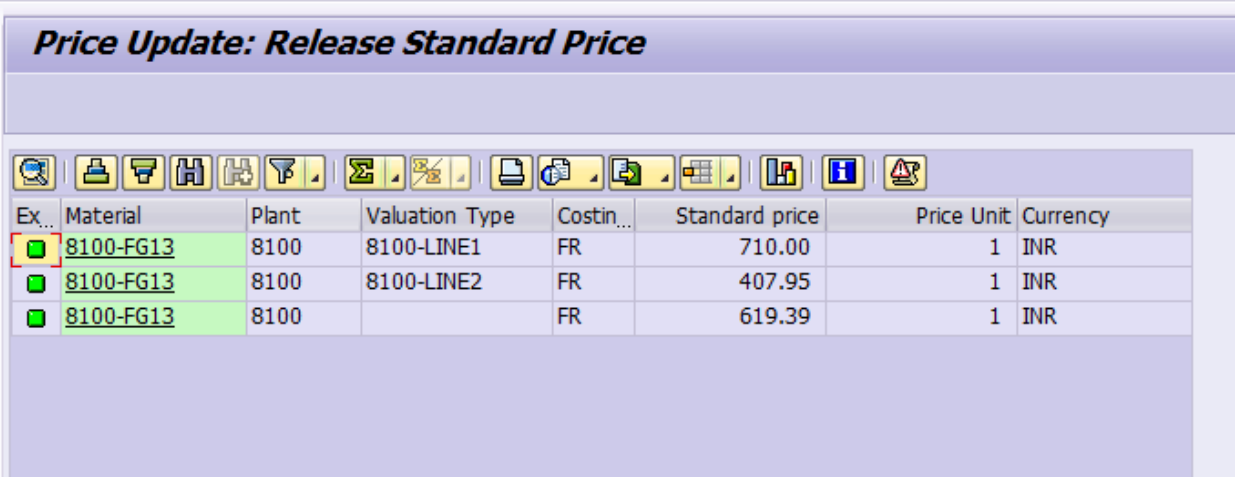
Ratio 70 % and 30 % given.

710 * 0.7=497 for 8100-LINE1

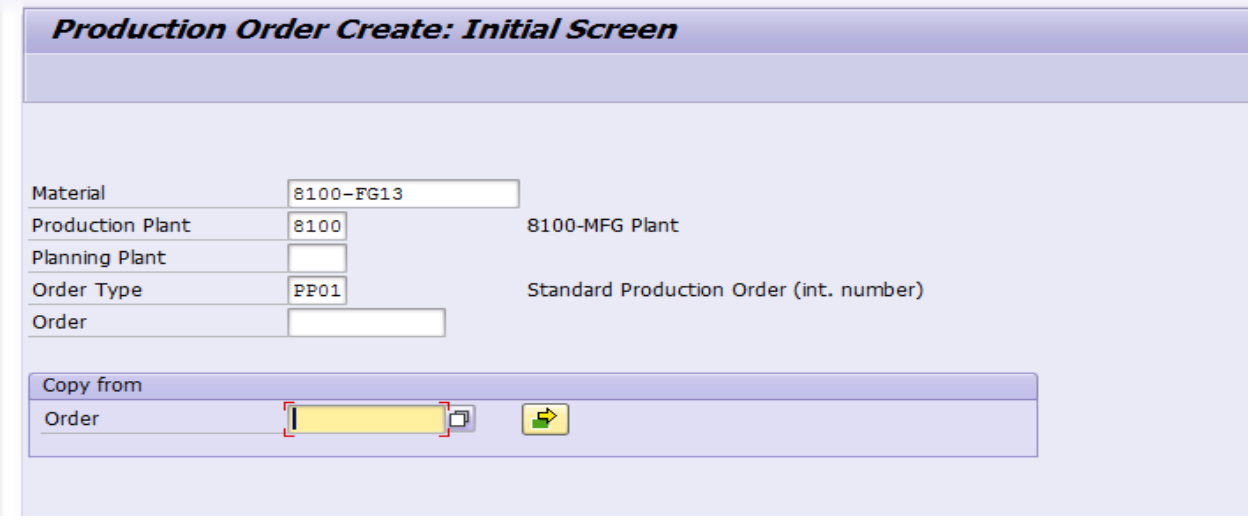
407.95 * 0.3 =122.385 for 8100-LINE2 will come while doing released costing.

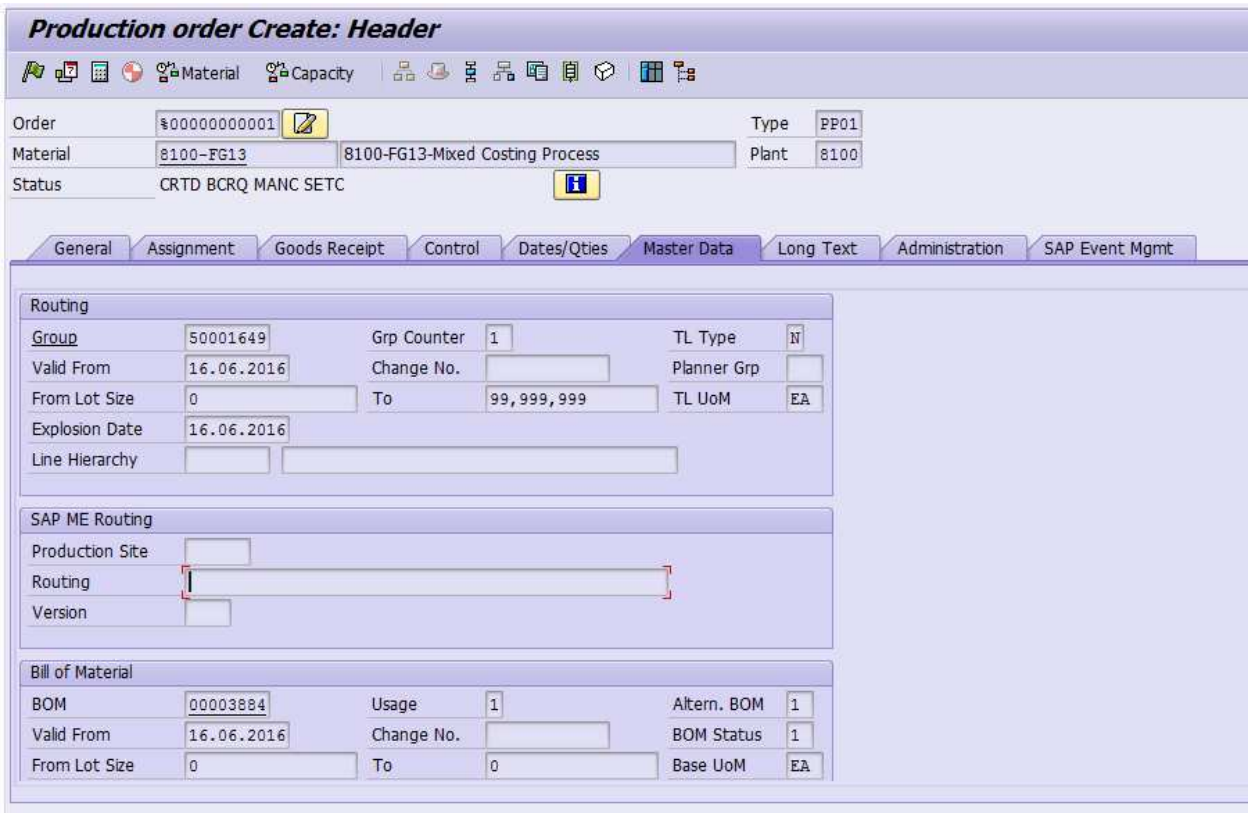


CK24-Released Standard Costing

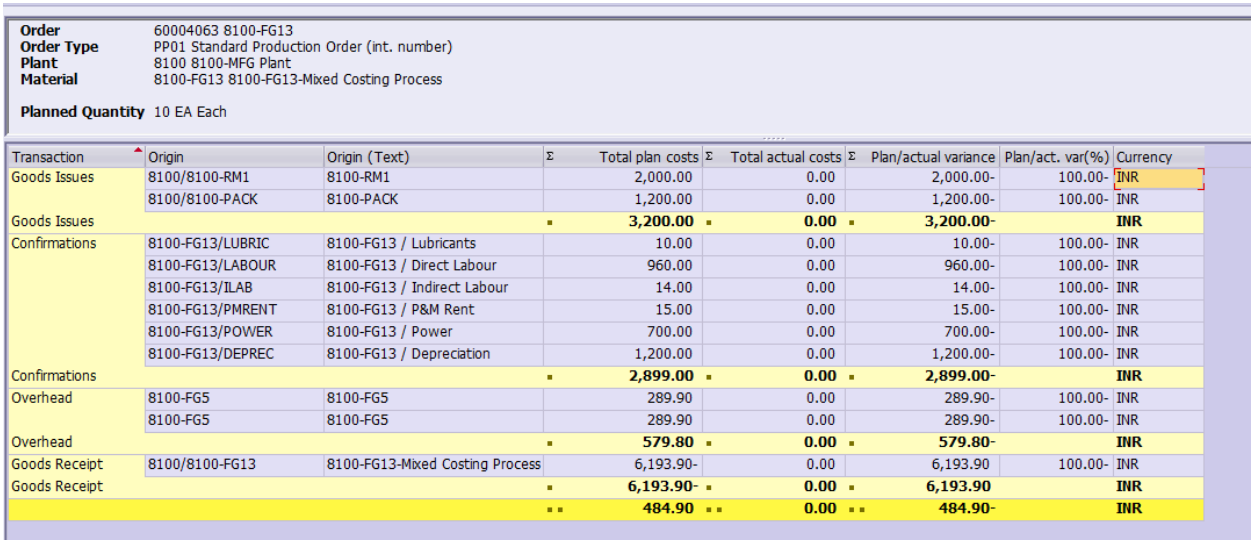


CO01-Product Order Creation





In master data tab we can choose BOM &Routing combination.

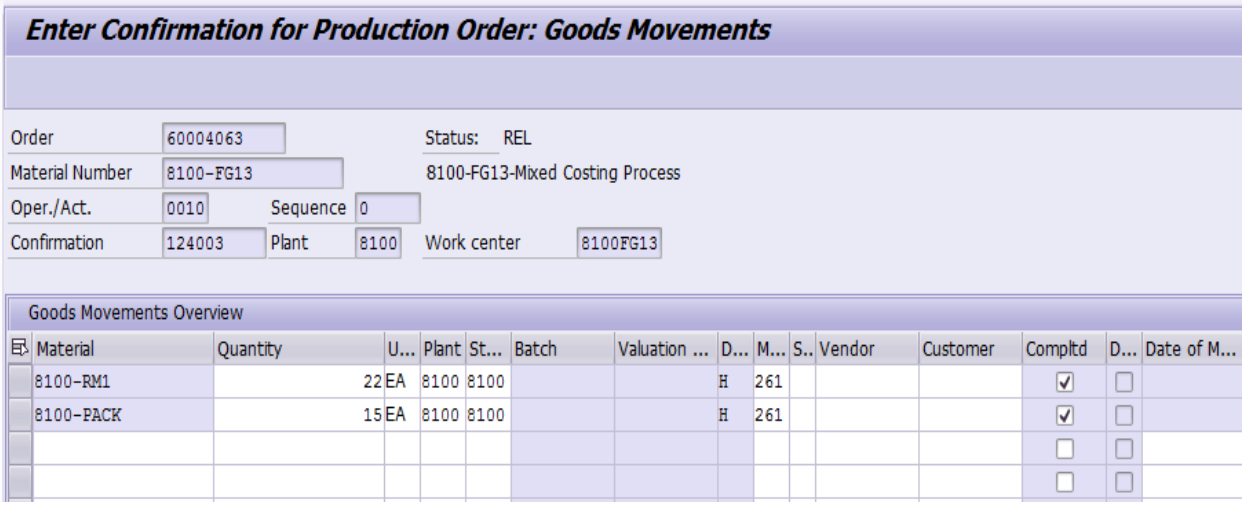


Order 60004063 8100-FG13
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG13 8100-FG13-Mixed Costing Process

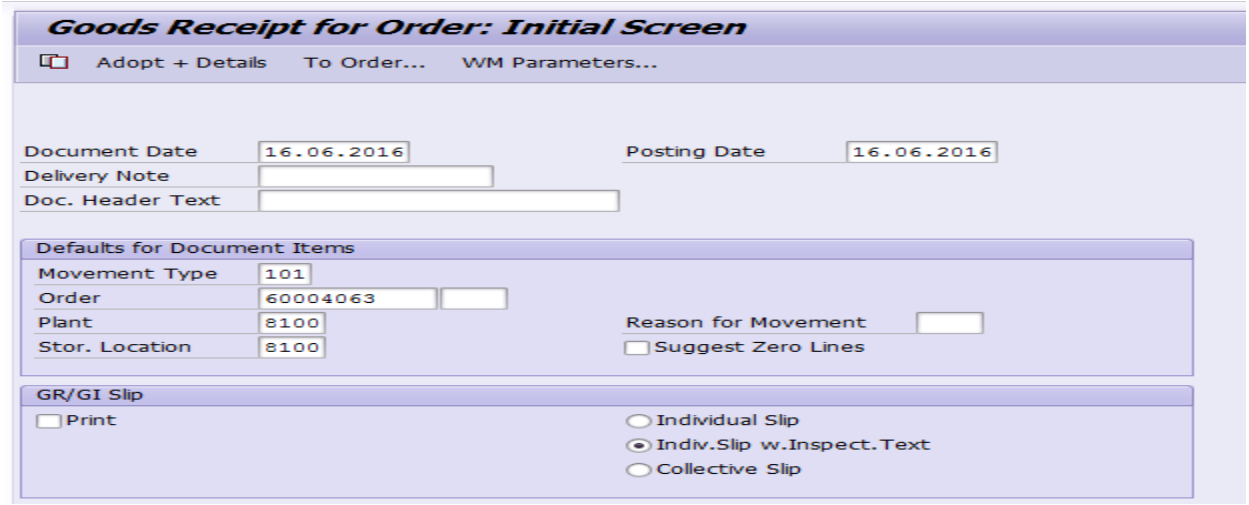
Planned Quantity 10 EA Each

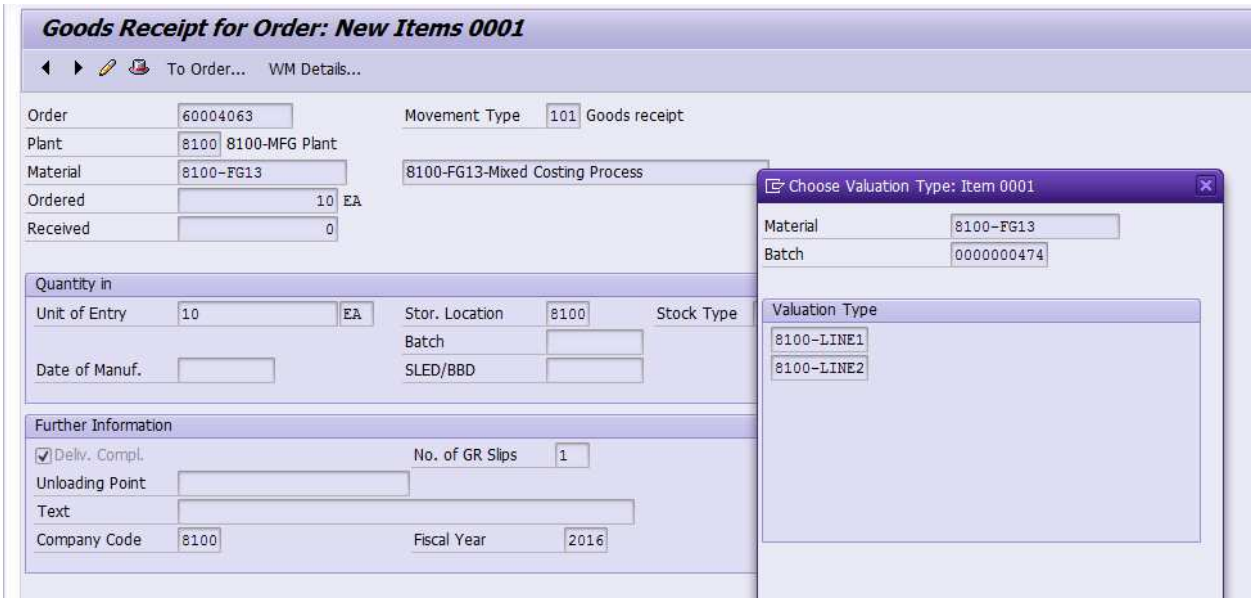
Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	Plan/act. var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	0.00	2,000.00-	100.00-	INR
	8100/8100-PACK	8100-PACK	1,200.00	0.00	1,200.00-	100.00-	INR
Goods Issues			**3,200.00**	**0.00**	**3,200.00-**		**INR**
Confirmations	8100-FG13/LUBRIC	8100-FG13 / Lubricants	10.00	0.00	10.00-	100.00-	INR
	8100-FG13/LABOUR	8100-FG13 / Direct Labour	960.00	0.00	960.00-	100.00-	INR
	8100-FG13/ILAB	8100-FG13 / Indirect Labour	14.00	0.00	14.00-	100.00-	INR
	8100-FG13/PMRENT	8100-FG13 / P&M Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG13/POWER	8100-FG13 / Power	700.00	0.00	700.00-	100.00-	INR
	8100-FG13/DEPREC	8100-FG13 / Depreciation	1,200.00	0.00	1,200.00-	100.00-	INR
Confirmations			**2,899.00**	**0.00**	**2,899.00-**		**INR**
Overhead	8100-FG5	8100-FG5	289.90	0.00	289.90-	100.00-	INR
	8100-FG5	8100-FG5	289.90	0.00	289.90-	100.00-	INR
Overhead			**579.80**	**0.00**	**579.80-**		**INR**
Goods Receipt	8100/8100-FG13	8100-FG13-Mixed Costing Process	6,193.90-	0.00	6,193.90	100.00-	INR
Goods Receipt			**6,193.90-**	**0.00**	**6,193.90**		**INR**
			484.90	**0.00**	**484.90-**		**INR**

CO11N-Production Order Confirmation

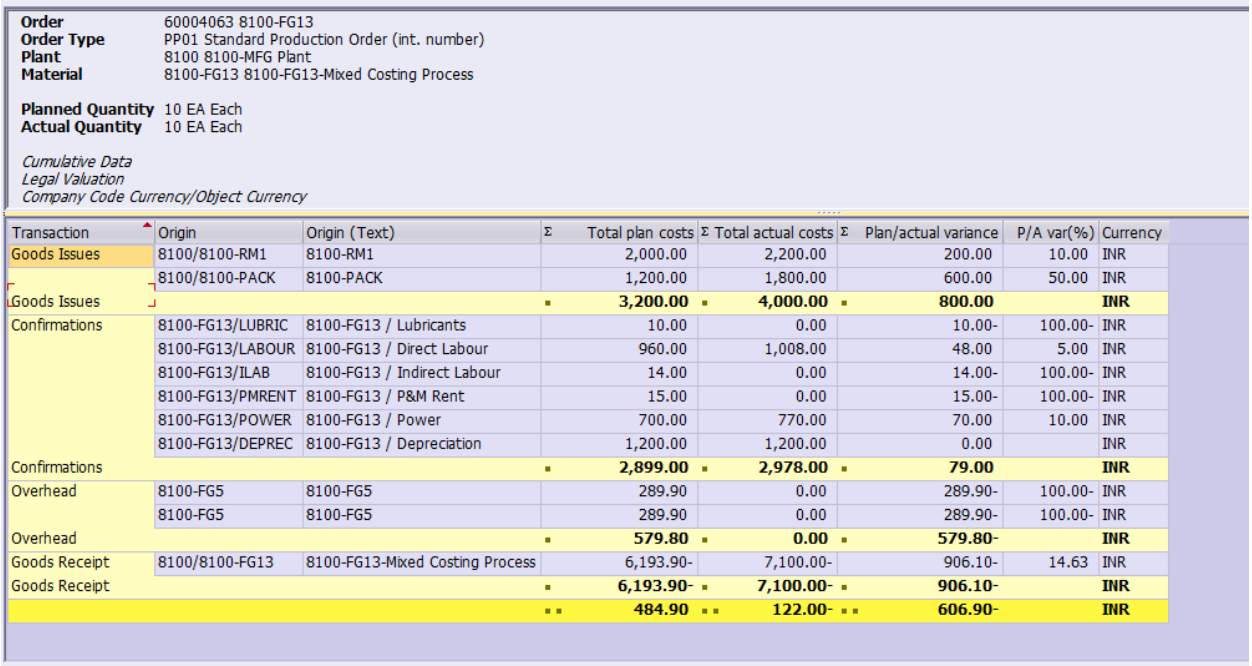


MB31-GRN





CO03-Cost Trend



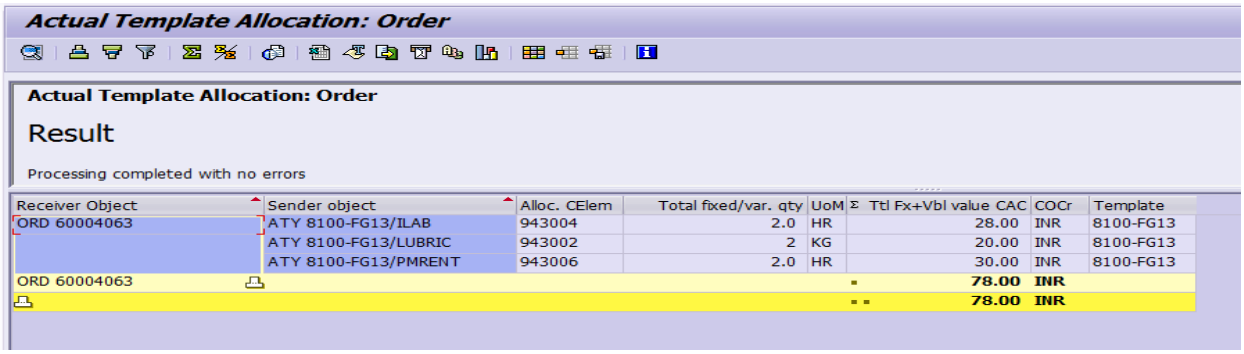
Order 60004063 8100-FG13
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG13 8100-FG13-Mixed Costing Process

Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

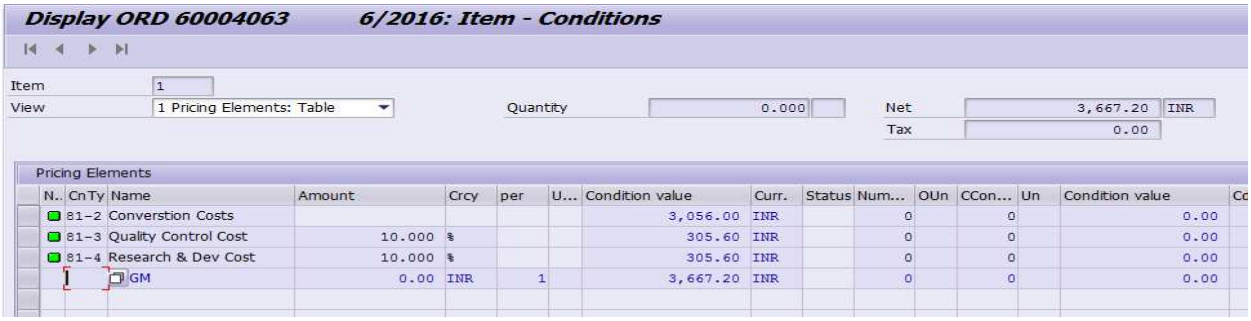
Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		2,000.00		2,200.00		200.00	10.00	INR
	8100/8100-PACK	8100-PACK		1,200.00		1,800.00		600.00	50.00	INR
Goods Issues			▪	**3,200.00**	▪	**4,000.00**	▪	**800.00**		**INR**
Confirmations	8100-FG13/LUBRIC	8100-FG13 / Lubricants		10.00		0.00		10.00-	100.00-	INR
	8100-FG13/LABOUR	8100-FG13 / Direct Labour		960.00		1,008.00		48.00	5.00	INR
	8100-FG13/ILAB	8100-FG13 / Indirect Labour		14.00		0.00		14.00-	100.00-	INR
	8100-FG13/PMRENT	8100-FG13 / P&M Rent		15.00		0.00		15.00-	100.00-	INR
	8100-FG13/POWER	8100-FG13 / Power		700.00		770.00		70.00	10.00	INR
	8100-FG13/DEPREC	8100-FG13 / Depreciation		1,200.00		1,200.00		0.00		INR
Confirmations			▪	**2,899.00**	▪	**2,978.00**	▪	**79.00**		**INR**
Overhead	8100-FG5	8100-FG5		289.90		0.00		289.90-	100.00-	INR
	8100-FG5	8100-FG5		289.90		0.00		289.90-	100.00-	INR
Overhead			▪	**579.80**	▪	**0.00**	▪	**579.80-**		**INR**
Goods Receipt	8100/8100-FG13	8100-FG13-Mixed Costing Process		6,193.90-		7,100.00-		906.10-	14.63	INR
Goods Receipt			▪	**6,193.90-**	▪	**7,100.00-**	▪	**906.10-**		**INR**
			▪▪	**484.90**	▪▪	**122.00-**	▪▪	**606.90-**		**INR**

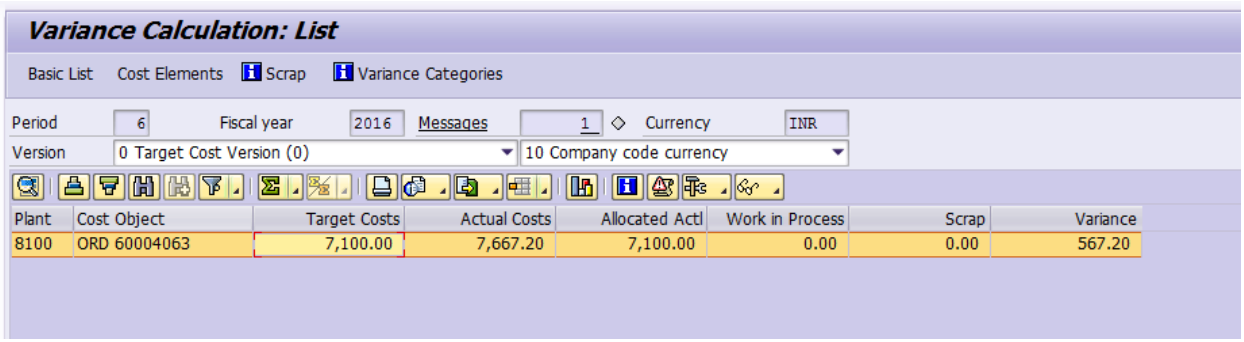
Template Allocation -CPTA - Individual Processing

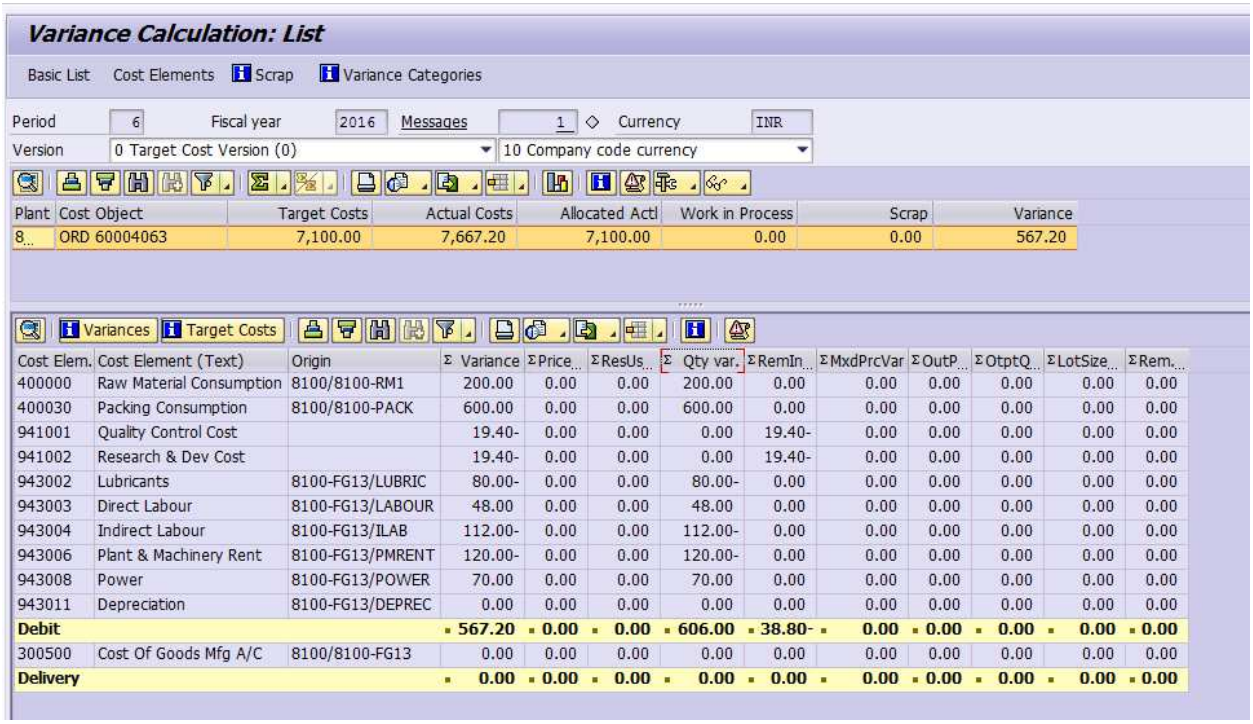


KGI2



KKS2





Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 6 Fiscal year 2016 Messages 1 Currency INR

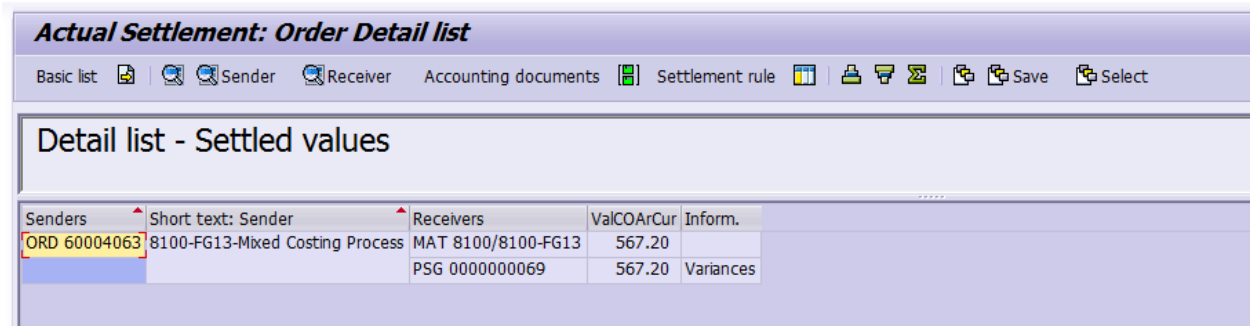
Version 0 Target Cost Version (0) | 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
8...	ORD 60004063	7,100.00	7,667.20	7,100.00	0.00	0.00	567.20

Variances | Target Costs

Cost Elem.	Cost Element (Text)	Origin	Variance	Price...	ResUs...	Qty var.	RemIn...	MxdPrcVar	OutP...	OtptQ...	LotSize...	Rem...
400000	Raw Material Consumption	8100/8100-RM1	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
400030	Packing Consumption	8100/8100-PACK	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
941001	Quality Control Cost		19.40-	0.00	0.00	0.00	19.40-	0.00	0.00	0.00	0.00	0.00
941002	Research & Dev Cost		19.40-	0.00	0.00	0.00	19.40-	0.00	0.00	0.00	0.00	0.00
943002	Lubricants	8100-FG13/LUBRIC	80.00-	0.00	0.00	80.00-	0.00	0.00	0.00	0.00	0.00	0.00
943003	Direct Labour	8100-FG13/LABOUR	48.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00
943004	Indirect Labour	8100-FG13/ILAB	112.00-	0.00	0.00	112.00-	0.00	0.00	0.00	0.00	0.00	0.00
943006	Plant & Machinery Rent	8100-FG13/PMRENT	120.00-	0.00	0.00	120.00-	0.00	0.00	0.00	0.00	0.00	0.00
943008	Power	8100-FG13/POWER	70.00	0.00	0.00	70.00	0.00	0.00	0.00	0.00	0.00	0.00
943011	Depreciation	8100-FG13/DEPREC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debit			**567.20**	**0.00**	**0.00**	**606.00**	**38.80-**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
300500	Cost Of Goods Mfg A/C	8100/8100-FG13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delivery			**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

KO88-Settlement



Actual Settlement: Order Detail list

Basic list | Sender | Receiver | Accounting documents | Settlement rule | Save | Select

Detail list - Settled values

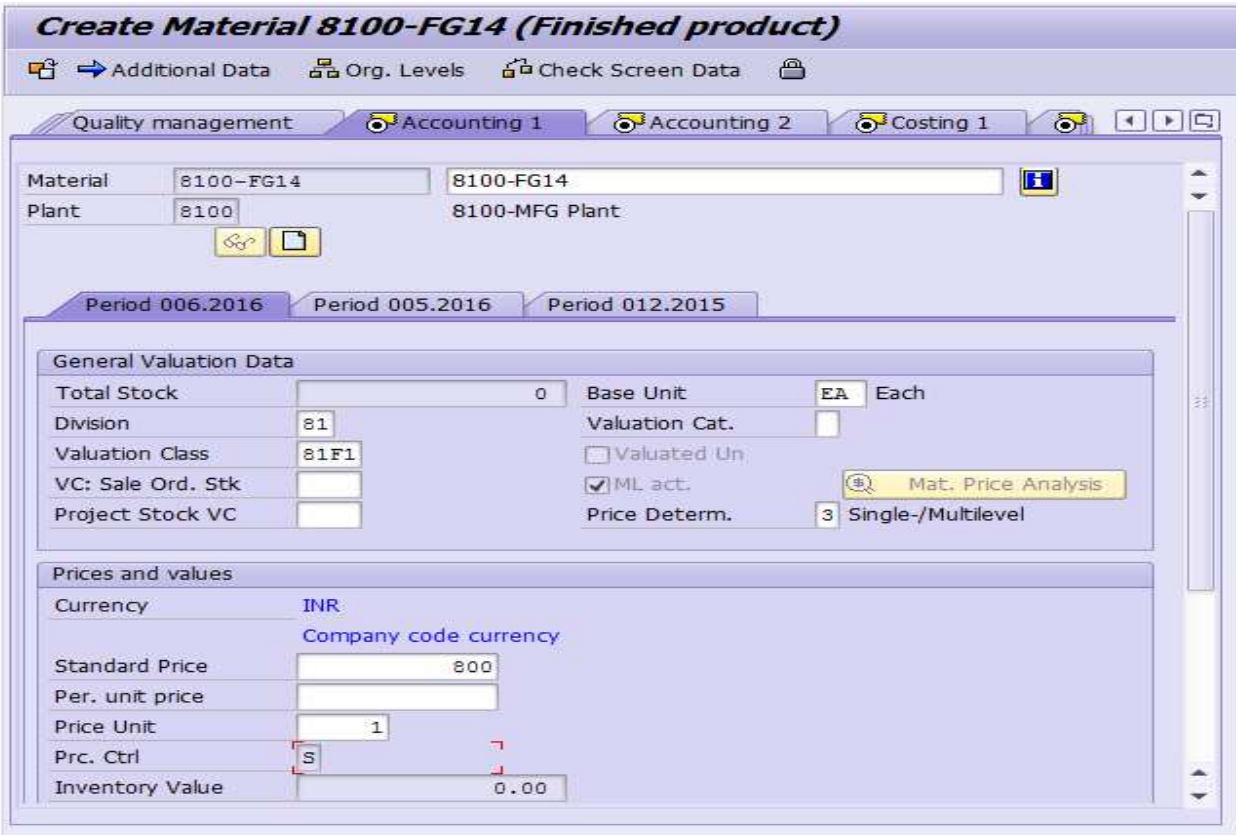
Senders	Short text: Sender	Receivers	ValCOArCur	Inform.
ORD 60004063	8100-FG13-Mixed Costing Process	MAT 8100/8100-FG13	567.20	
		PSG 0000000069	567.20	Variances

Without Split Valuation Mixed Costing process

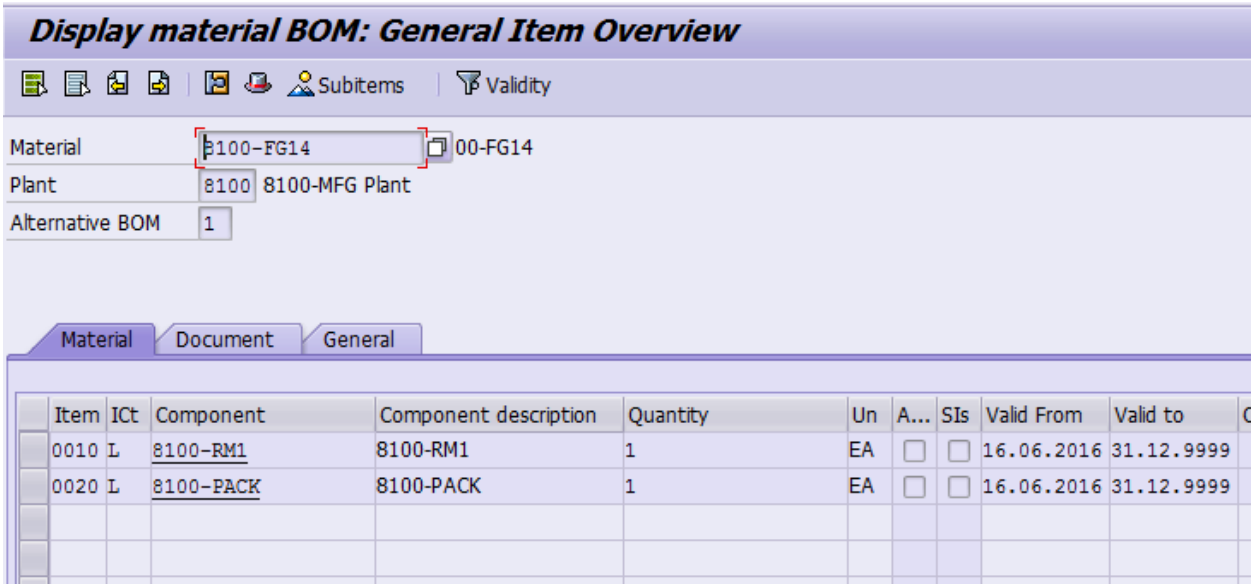
4).Multiple manufacturing process for FG Materials

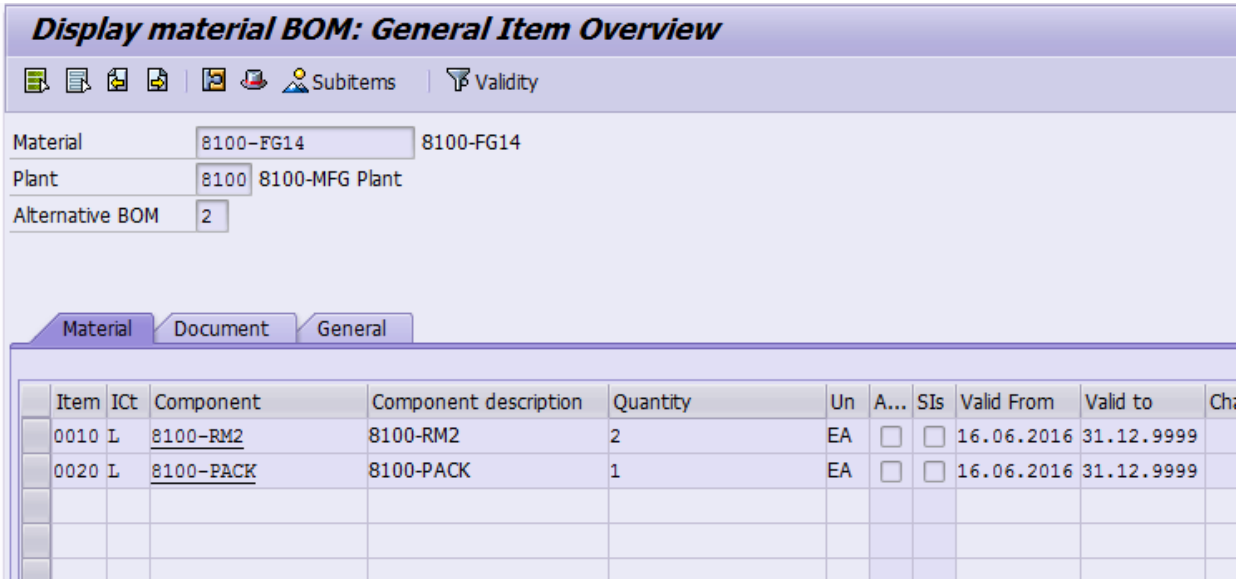
Testing

Material Master Creation

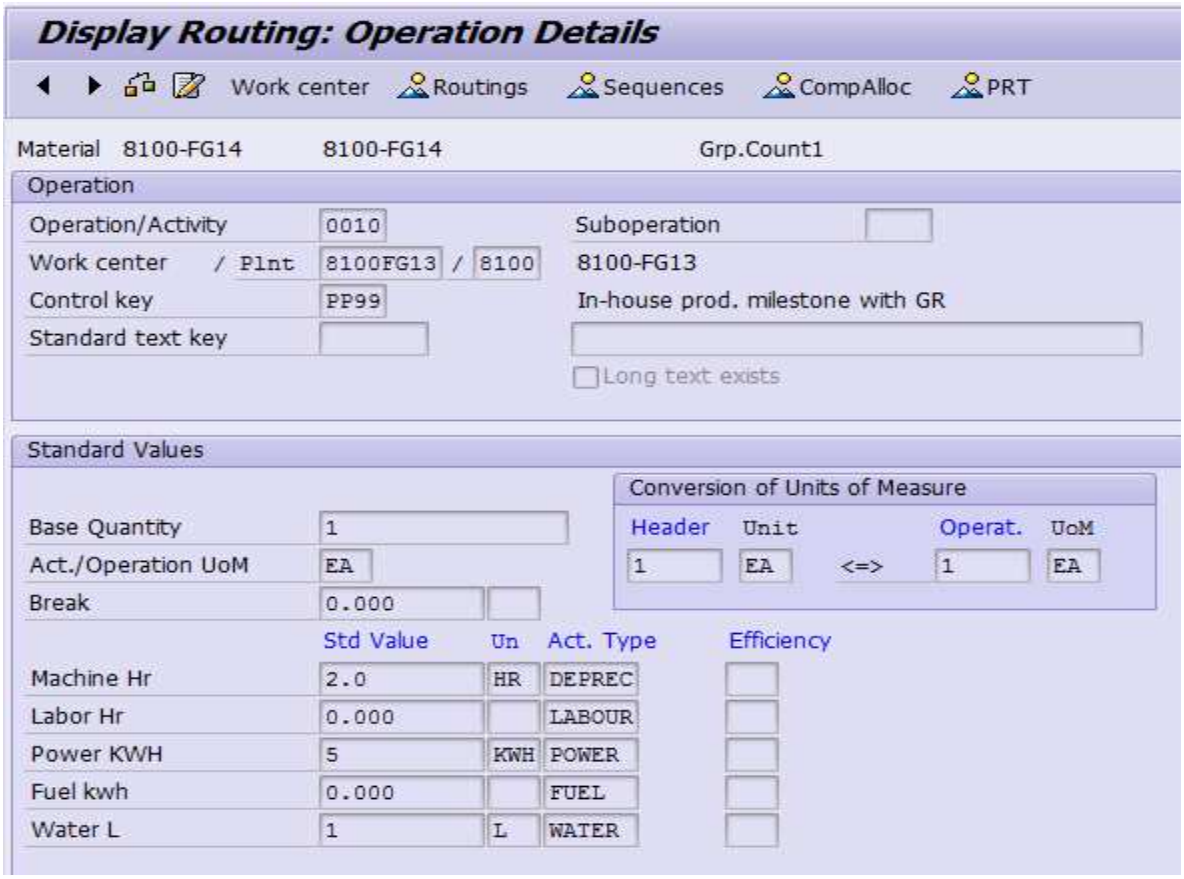


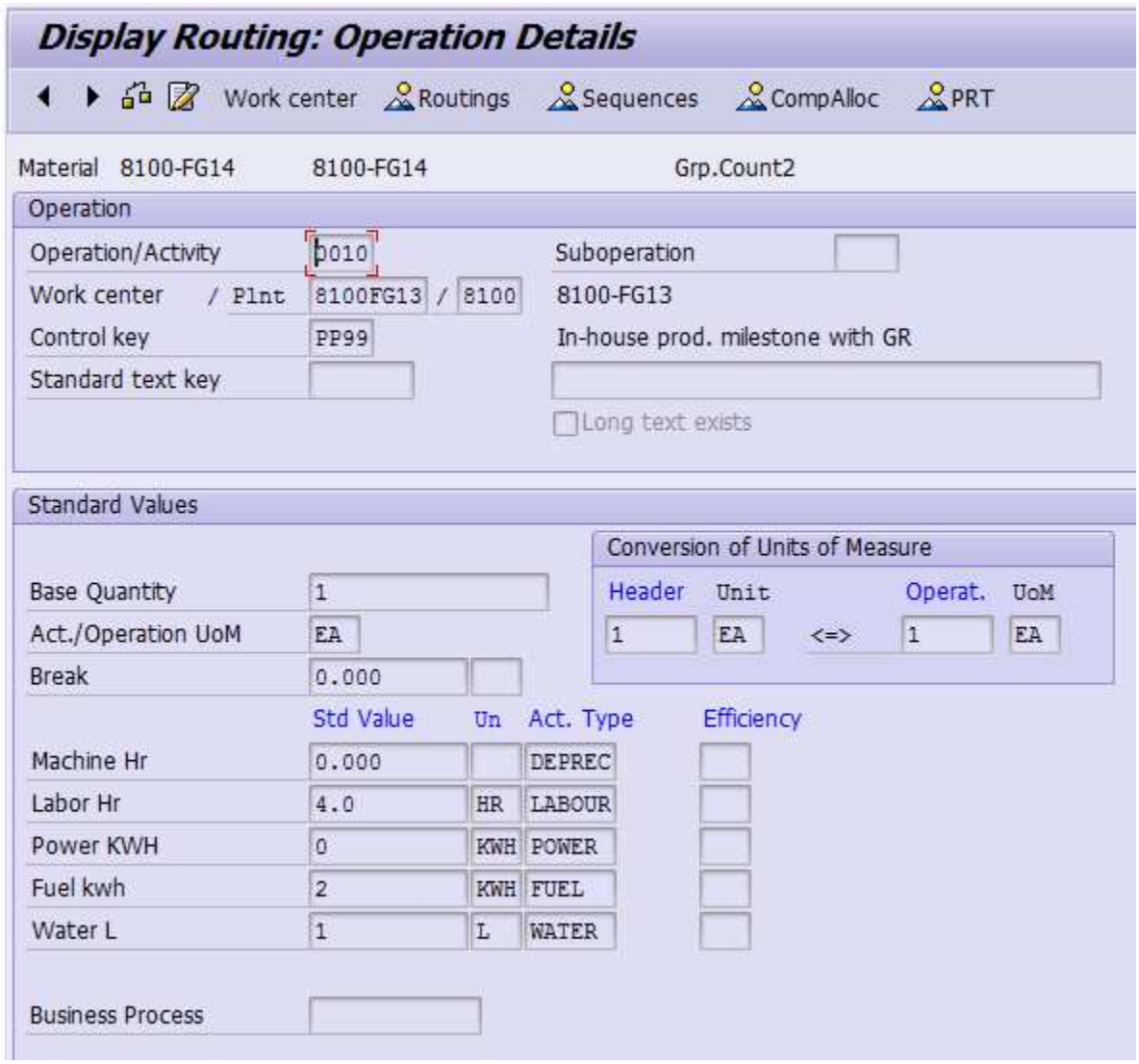
CS01-2 Bill of Material Creation

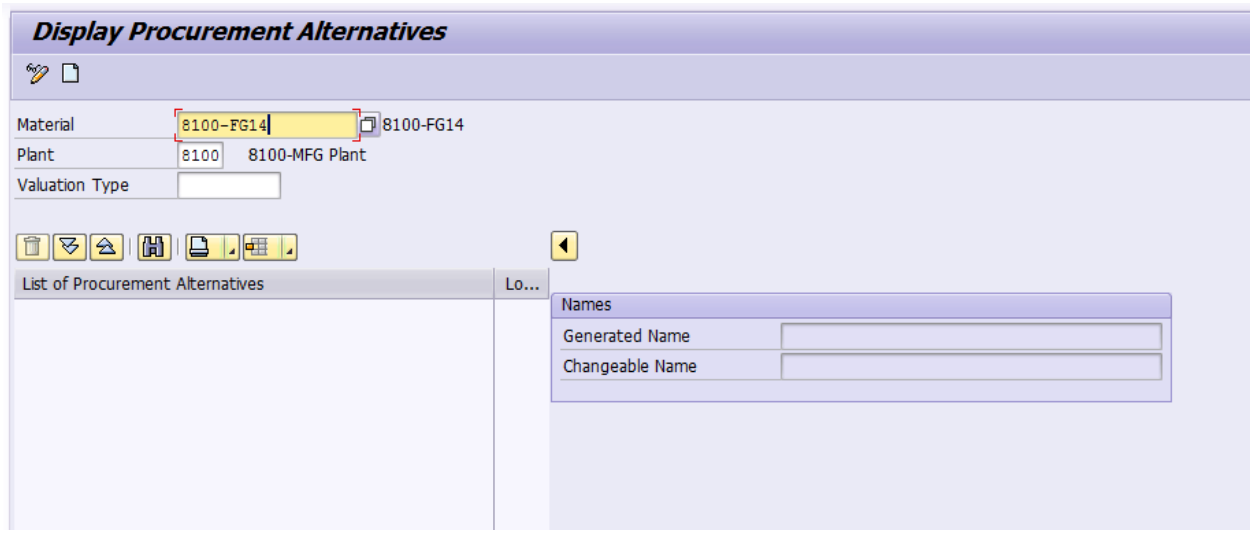


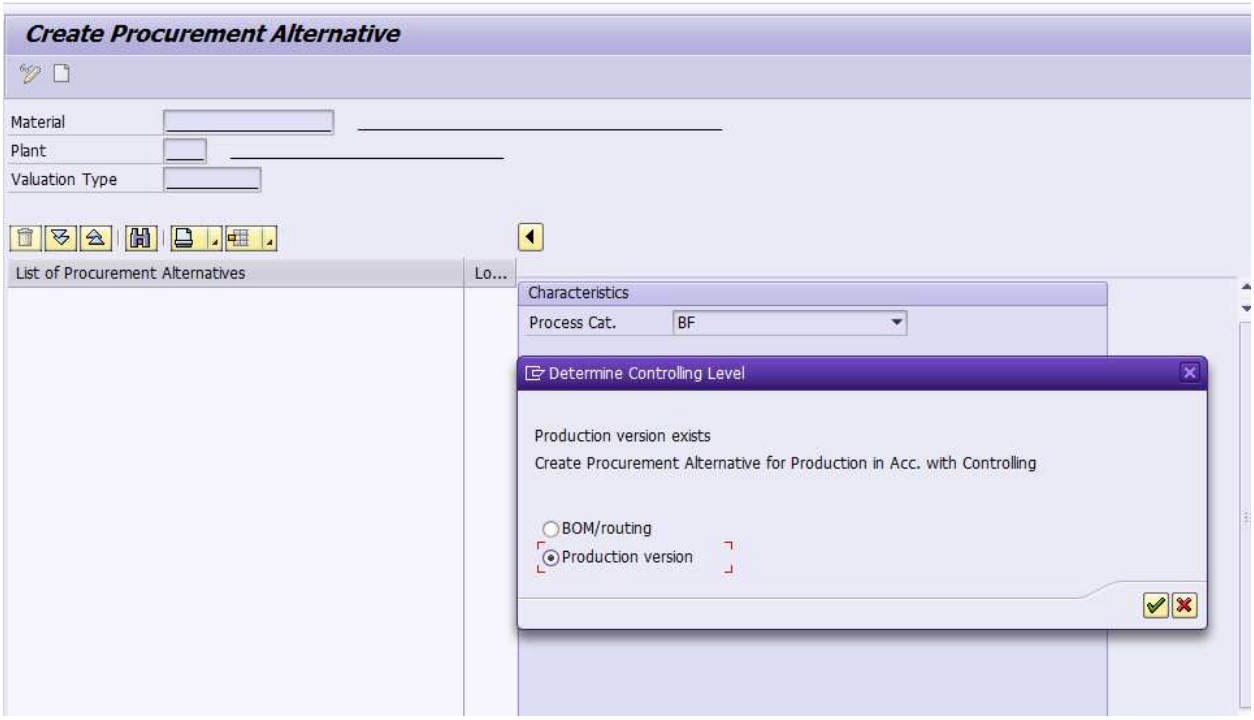


CA01-2 Routing Master data

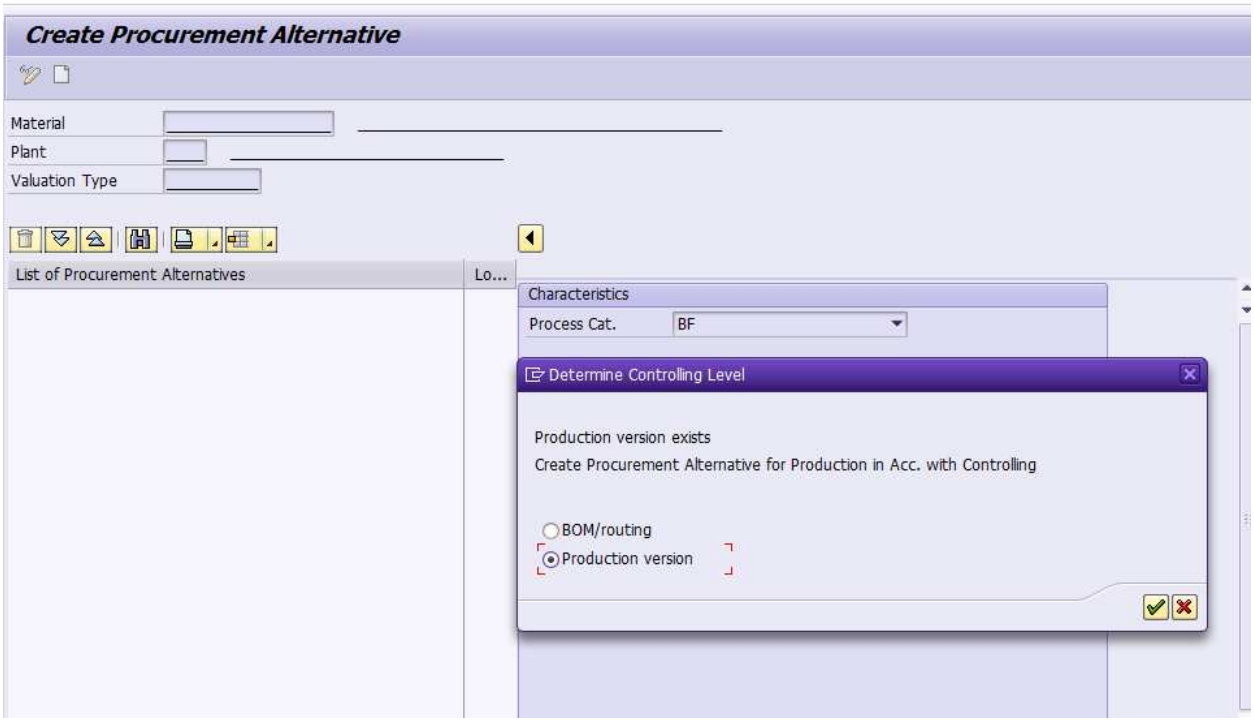



Display Routing: Operation Details
Work center
Routings
Sequences
CompAlloc
PRT
Material 8100-FG14 8100-FG14 Grp.Count2
Operation
Operation/Activity 0010
Suboperation
Work center / Plnt 8100FG13 / 8100
8100-FG13
Control key PP99
In-house prod. milestone with GR
Standard text key
Long text exists
Standard Values
Conversion of Units of Measure
Header Unit Operat. UoM
1 EA <=> 1 EA
Base Quantity 1
Act./Operation UoM EA
Break 0.000
Std Value Un Act. Type Efficiency
Machine Hr 0.000 DEPREC
Labor Hr 4.0 HR LABOUR
Power KWH 0 KWH POWER
Fuel kwh 2 KWH FUEL
Water L 1 L WATER
Business Process

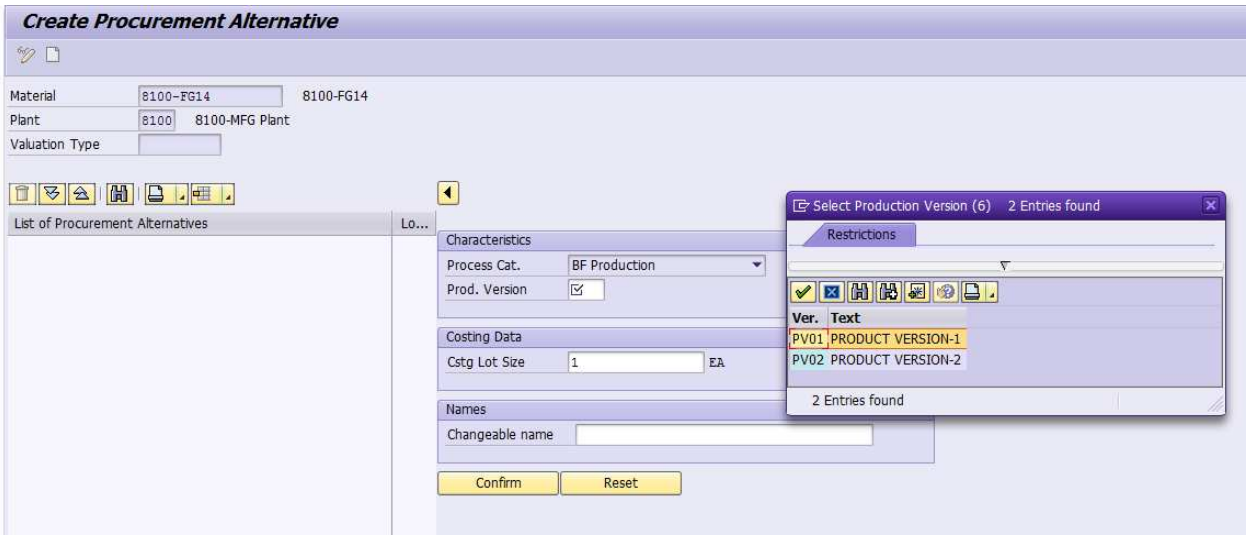


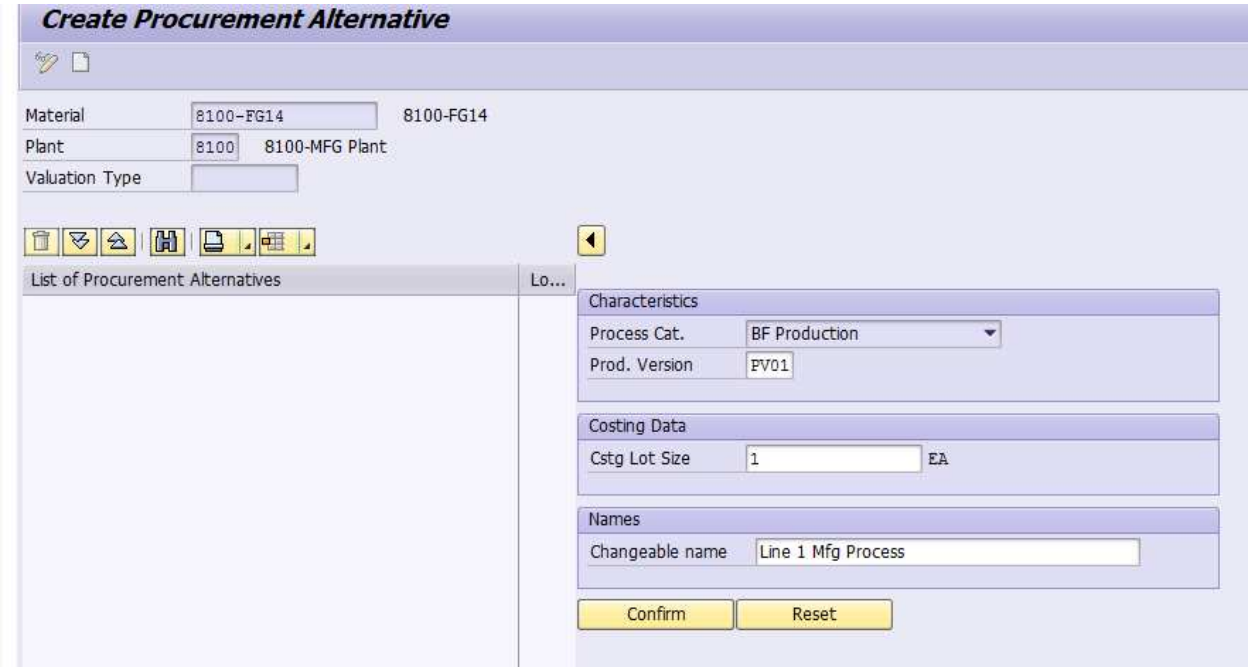


Select Production Version and then enter

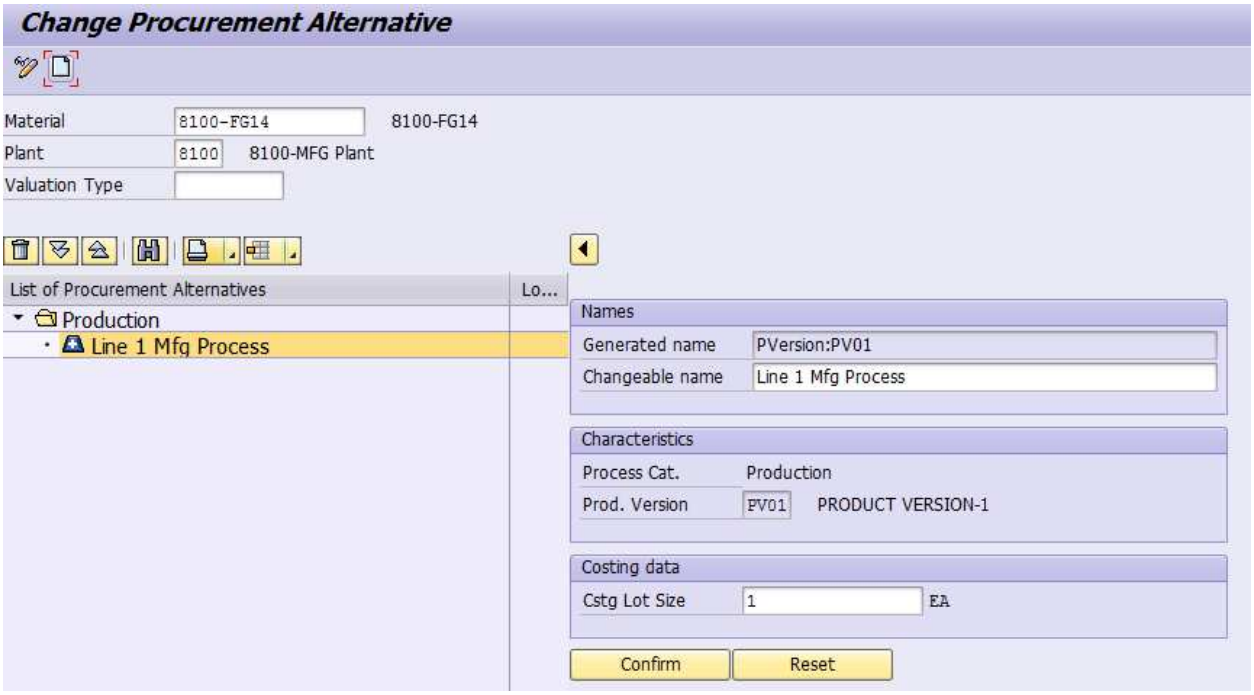


Select first Production Version-1

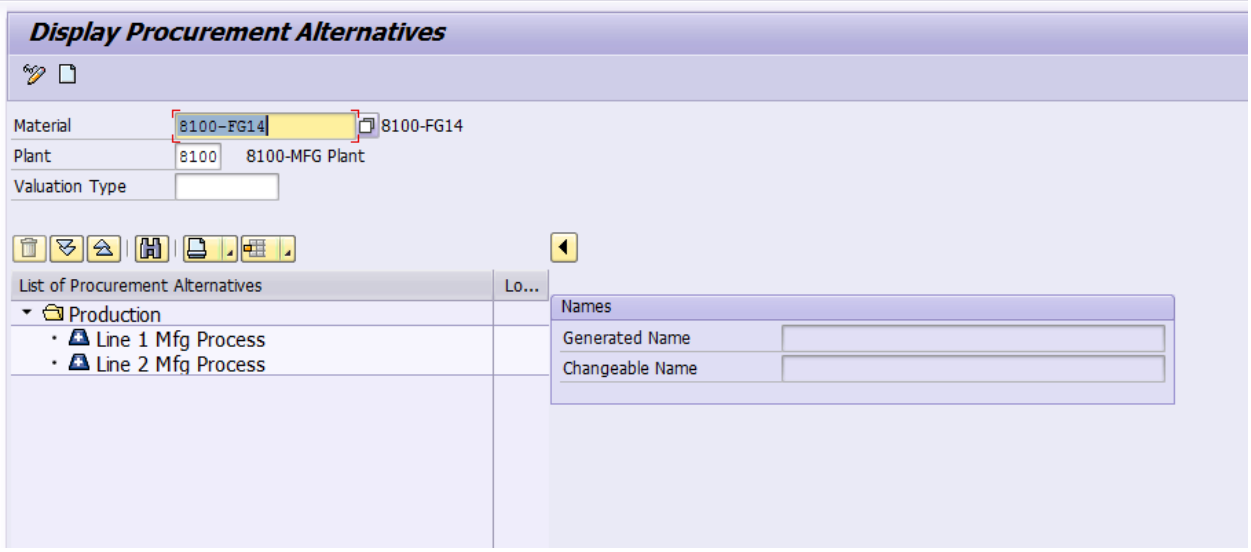




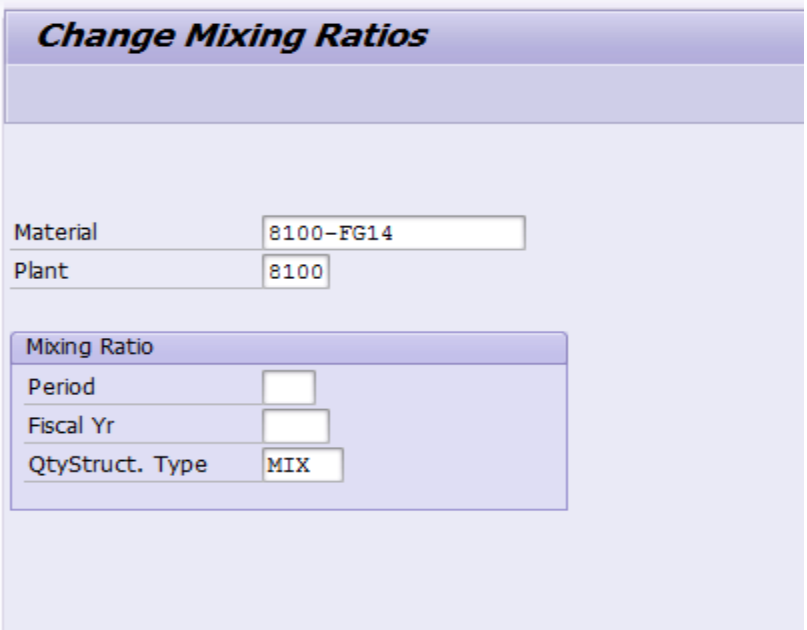
Then Confirm

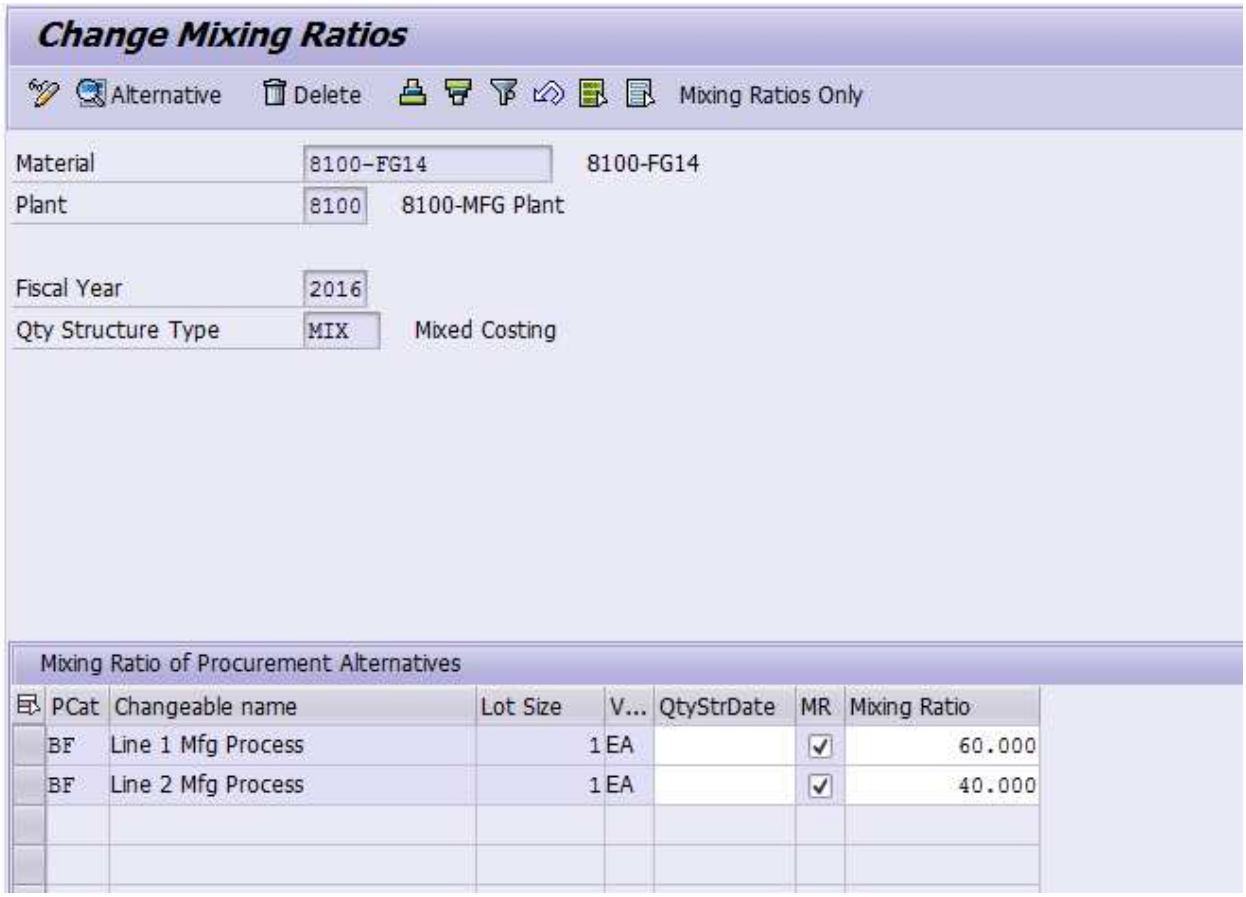


Similarly create second production version also

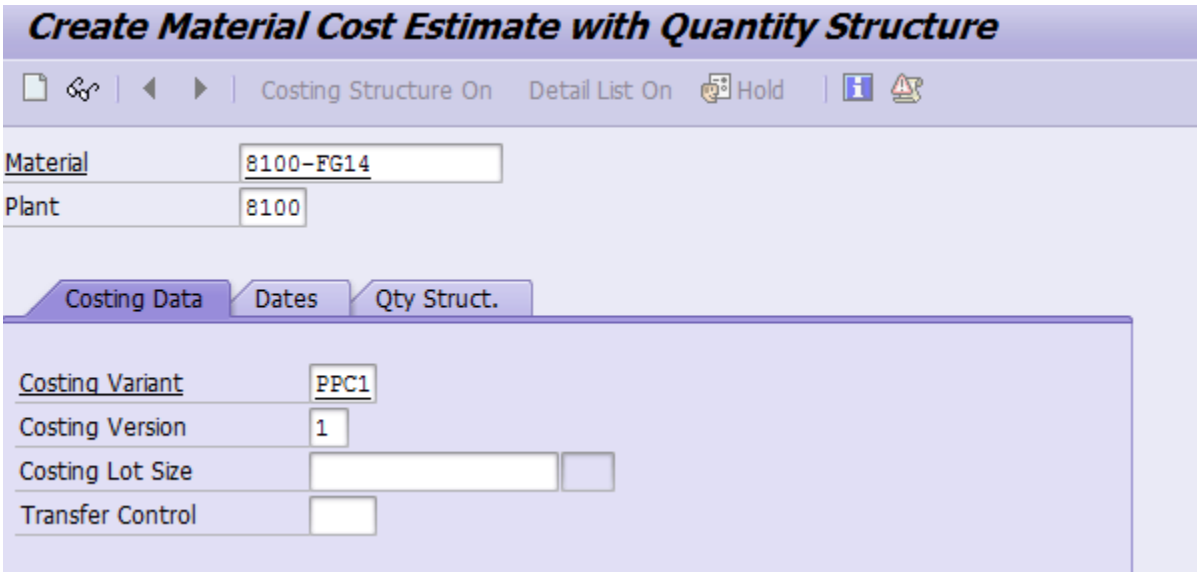


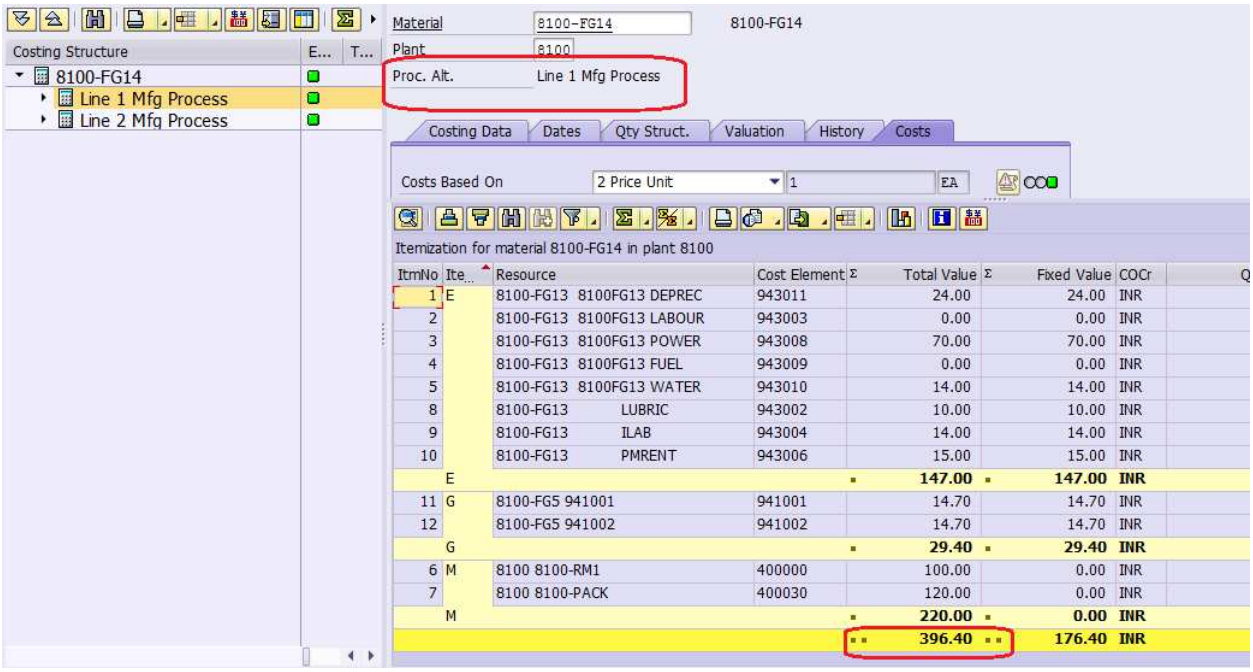
Mixing Ratios - CK94 - Create/Change

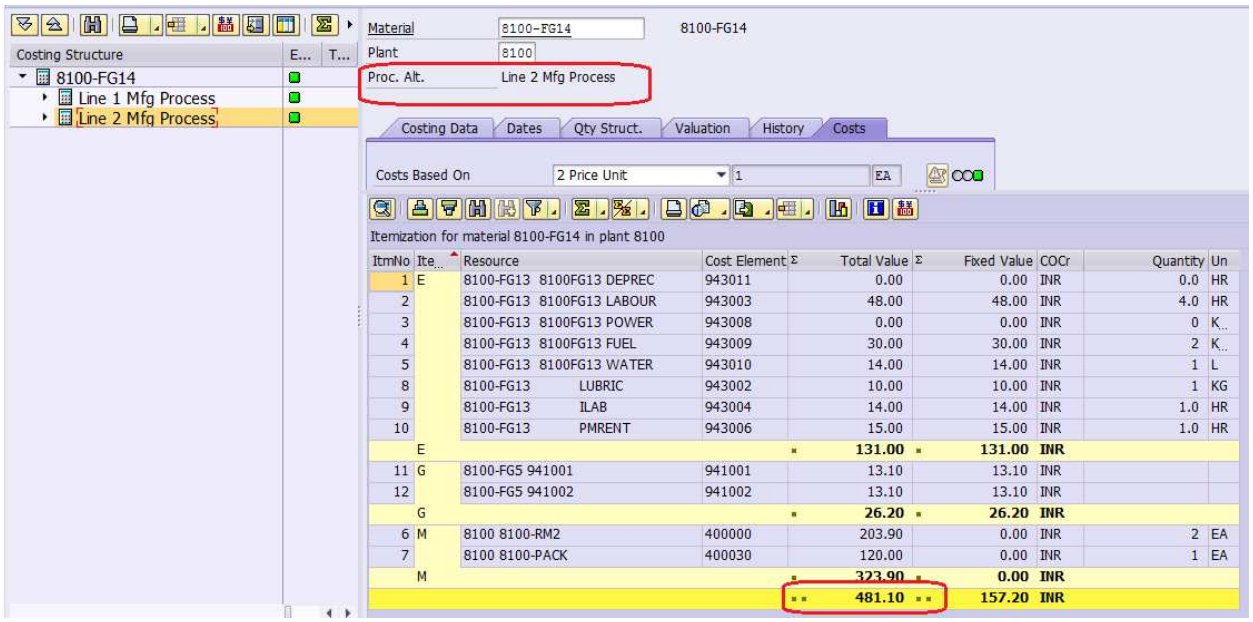




CK11N-Cost estimate with QTy Structure



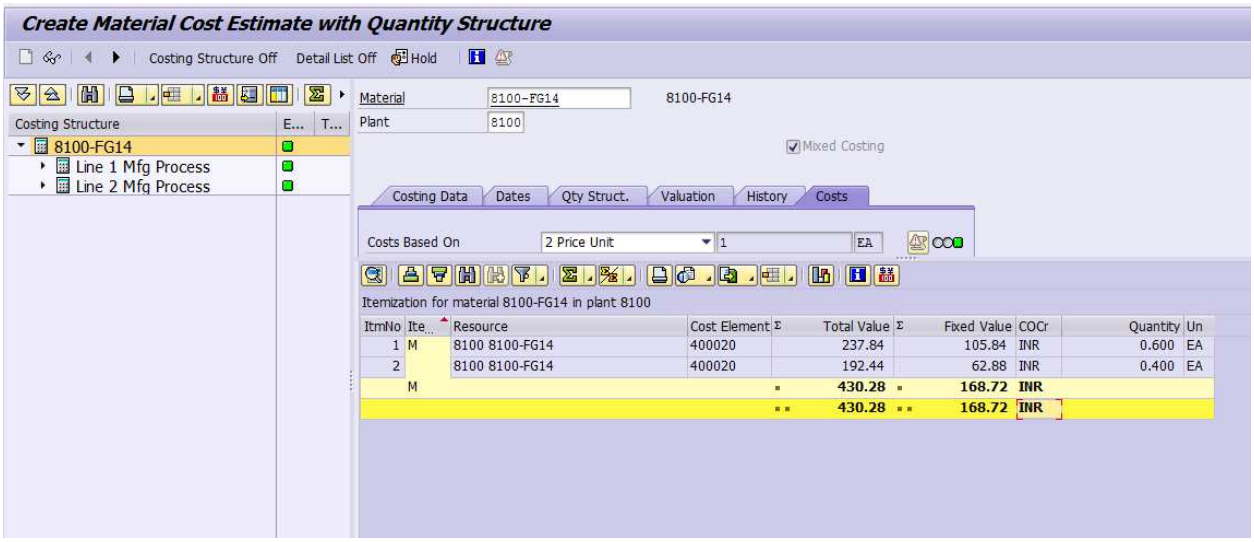




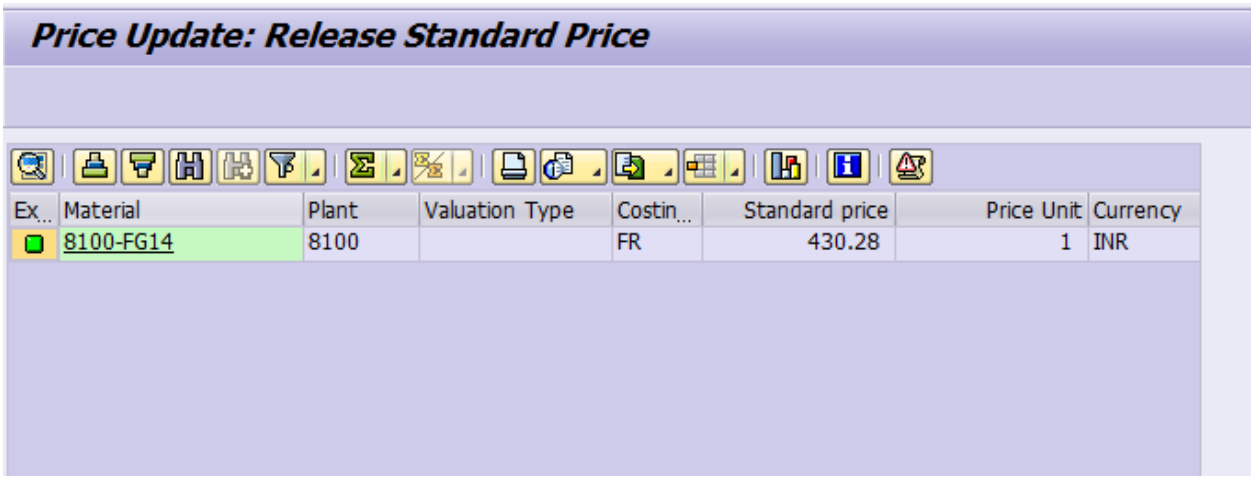
Here Line 1 Mfg Process cost is 396.40 and Line 2 Mfg Process cost is 481.10

Line 1 Mfg Process 396.40 * 0.6 = 237.84

Line 2 Mfg Process 481.10 * 0.4 = 192.44



CK24-Standard Cost release



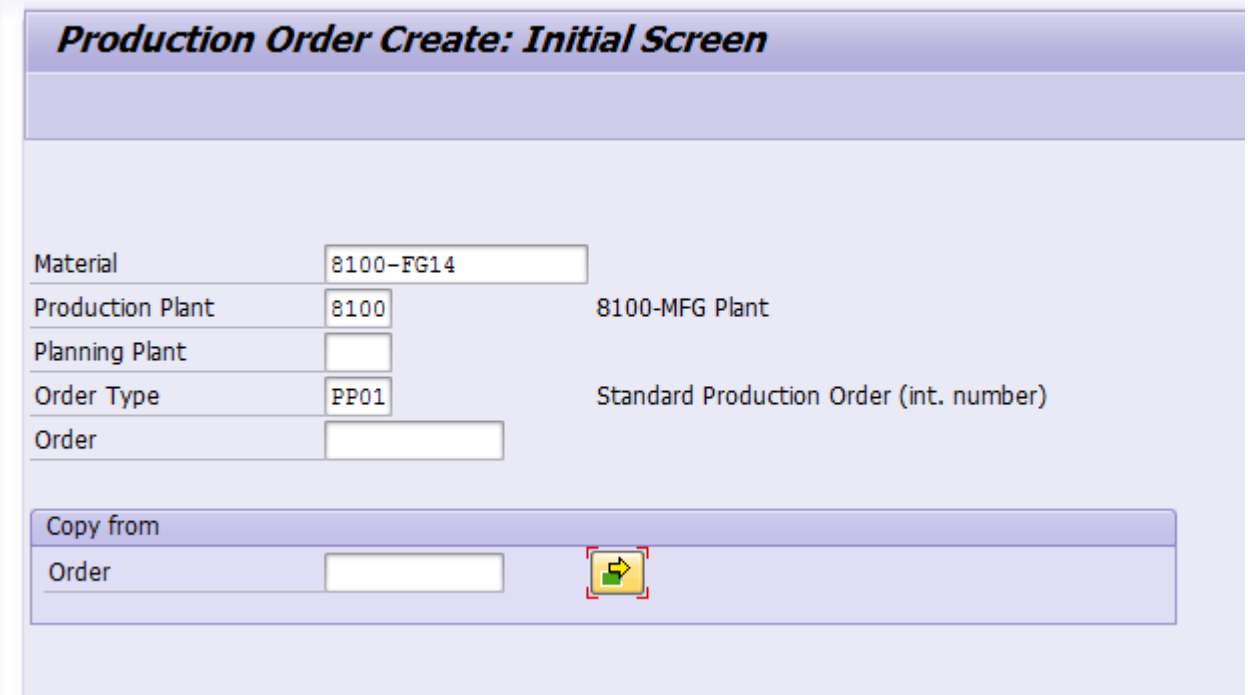
While doing releasing standard cost system will consider Average rate

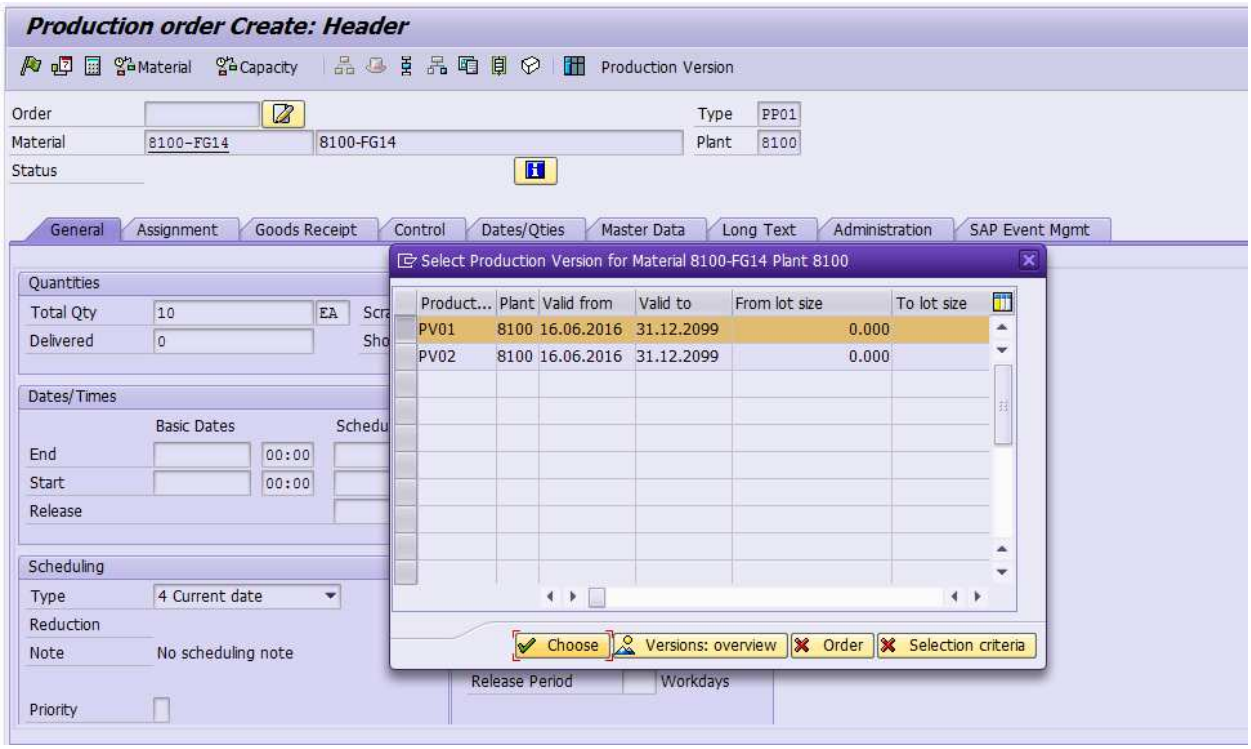
i.e., Line 1 Mfg Process 396.40 * 0.6 = 237.84

Line 2 Mfg Process 481.10 * 0.4 = 192.44

Total = 237.84 + 192.44 = 430.28

CO01-Production Order Creation





Cost Trend

Order 60004064 8100-FG14
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG14 8100-FG14

Planned Quantity 10 EA Each

Transaction	Origin	Origin (Text)	Σ	Total plan costs	Σ	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1		1,000.00		0.00		1,000.00-	100.00-	INR
	8100/8100-PACK	8100-PACK		1,200.00		0.00		1,200.00-	100.00-	INR
Goods Issues			▪	**2,200.00**	▪	**0.00**	▪	**2,200.00-**		**INR**
Confirmations	8100-FG13/LUBRIC	8100-FG13 / Lubricants		10.00		0.00		10.00-	100.00-	INR
	8100-FG13/ILAB	8100-FG13 / Indirect Labour		14.00		0.00		14.00-	100.00-	INR
	8100-FG13/PMRENT	8100-FG13 / P&M Rent		15.00		0.00		15.00-	100.00-	INR
	8100-FG13/POWER	8100-FG13 / Power		700.00		0.00		700.00-	100.00-	INR
	8100-FG13/WATER	8100-FG13 / Water		140.00		0.00		140.00-	100.00-	INR
	8100-FG13/DEPREC	8100-FG13 / Depreciation		240.00		0.00		240.00-	100.00-	INR
Confirmations			▪	**1,119.00**	▪	**0.00**	▪	**1,119.00-**		**INR**
Overhead	8100-FG5	8100-FG5		111.90		0.00		111.90-	100.00-	INR
	8100-FG5	8100-FG5		111.90		0.00		111.90-	100.00-	INR
Overhead			▪	**223.80**	▪	**0.00**	▪	**223.80-**		**INR**
Goods Receipt	8100/8100-FG14	8100-FG14		4,302.80-		0.00		4,302.80	100.00-	INR
Goods Receipt			▪	**4,302.80-**	▪	**0.00**	▪	**4,302.80**		**INR**
			▪▪	**760.00-**	▪▪	**0.00**	▪▪	**760.00**		**INR**

CO11N

Enter Time Ticket for Production Order

Goods Movements | Actual Data

Confirmation	124004			
Order	60004064	Material	8100-FG14	8100-FG14
Operation	0010	Sequence	0	
Suboperation				
Capacity Cat.		Split		
Work Center	8100FG13	Plant	8100	8100-FG13

Confirm.type: X Final confirmation ☐ Clear open reservations

Quantities

	To Be Confirmed	Unit
Yield	10	EA
Scrap		
Rework		
Reason for Var.		

Activities

	To Be Confirmed	Unit	R
Machine Hr	25.0	HR	☐
Labor Hr		HR	☐
Power KWH	55	KWH	☐
Fuel kwh		KWH	☐
Water L	12	L	☐

Enter Confirmation for Production Order: Goods Movements

Order	60004064		Status:	REL	
Material Number	8100-FG14		8100-FG14		
Oper./Act.	0010	Sequence	0		
Confirmation	124004	Plant	8100	Work center	8100FG13

Goods Movements Overview

Material	Quantity	U...	Plant	St...	Batch	Valuation ...	D...	M...	S..	Vendor	Customer	Complted	D...
8100-FG14	10	EA	8100	8100			S	101				☑	☐
8100-RM1	13	EA	8100	8100			H	261				☑	☐
8100-PACK	12	EA	8100	8100			H	261				☑	☐
												☐	☐
												☐	☐
												☐	☐

COST TREND

Order 60004064 8100-FG14
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG14 8100-FG14

Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	1,000.00	1,300.00	300.00	30.00	INR
	8100/8100-PACK	8100-PACK	1,200.00	1,440.00	240.00	20.00	INR
Goods Issues			**2,200.00**	**2,740.00**	**540.00**		**INR**
Confirmations	8100-FG13/LUBRIC	8100-FG13 / Lubricants	10.00	0.00	10.00-	100.00-	INR
	8100-FG13/ILAB	8100-FG13 / Indirect Labour	14.00	0.00	14.00-	100.00-	INR
	8100-FG13/PMRENT	8100-FG13 / P&M Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG13/POWER	8100-FG13 / Power	700.00	770.00	70.00	10.00	INR
	8100-FG13/WATER	8100-FG13 / Water	140.00	168.00	28.00	20.00	INR
	8100-FG13/DEPREC	8100-FG13 / Depreciation	240.00	300.00	60.00	25.00	INR
Confirmations			**1,119.00**	**1,238.00**	**119.00**		**INR**
Overhead	8100-FG5	8100-FG5	111.90	0.00	111.90-	100.00-	INR
	8100-FG5	8100-FG5	111.90	0.00	111.90-	100.00-	INR
Overhead			**223.80**	**0.00**	**223.80-**		**INR**
Goods Receipt	8100/8100-FG14	8100-FG14	4,302.80-	4,302.80-	0.00		INR
Goods Receipt			**4,302.80-**	**4,302.80-**	**0.00**		**INR**
			760.00-	**324.80-**	**435.20**		**INR**

Template Allocation

Actual Template Allocation: Order

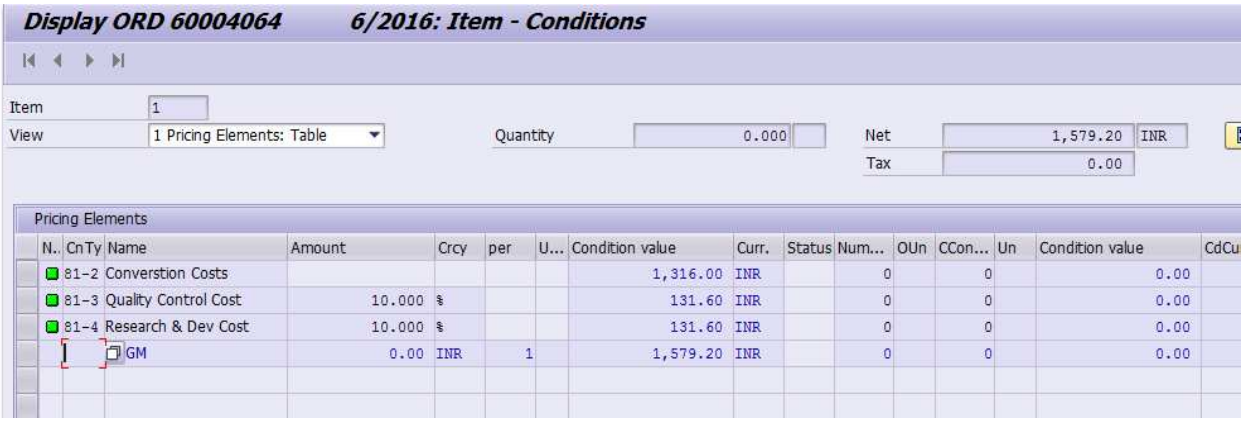
Actual Template Allocation: Order

Result

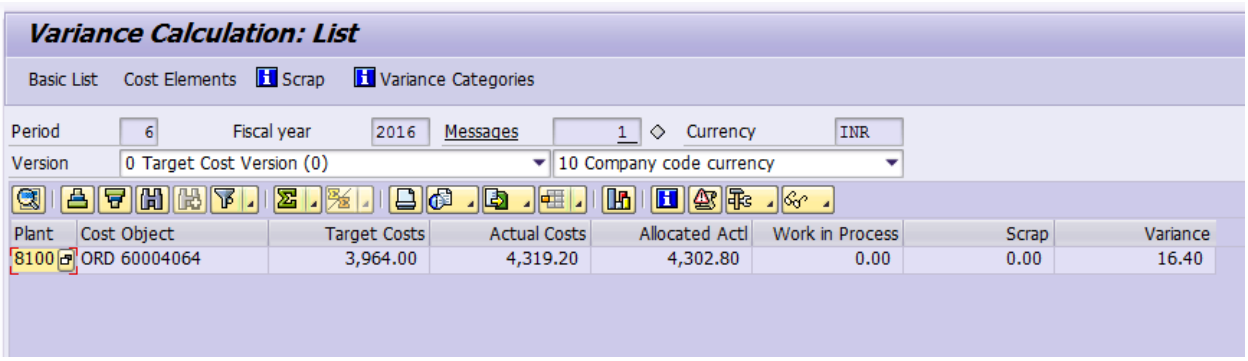
Processing completed with no errors

Receiver Object	Sender object	Alloc. CElem	Total fixed/var. qty	UoM	Ttl Fx+Vbl value CAC	COCr	Template
ORD 60004064	ATY 8100-FG13/ILAB	943004	2.0	HR	28.00	INR	8100-FG13
	ATY 8100-FG13/LUBRIC	943002	2	KG	20.00	INR	8100-FG13
	ATY 8100-FG13/PMRENT	943006	2.0	HR	30.00	INR	8100-FG13
ORD 60004064					**78.00**	**INR**	
					78.00	**INR**	

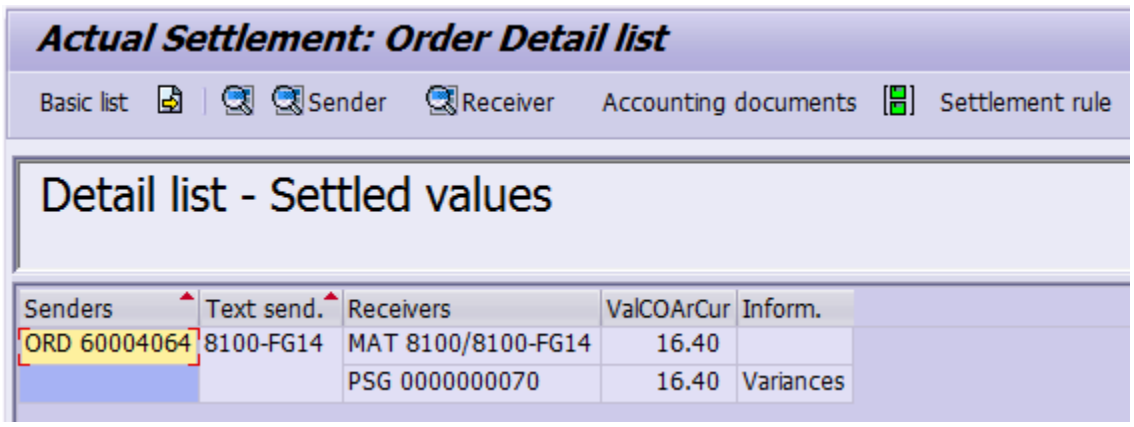
Overhead



Variances



Settlement

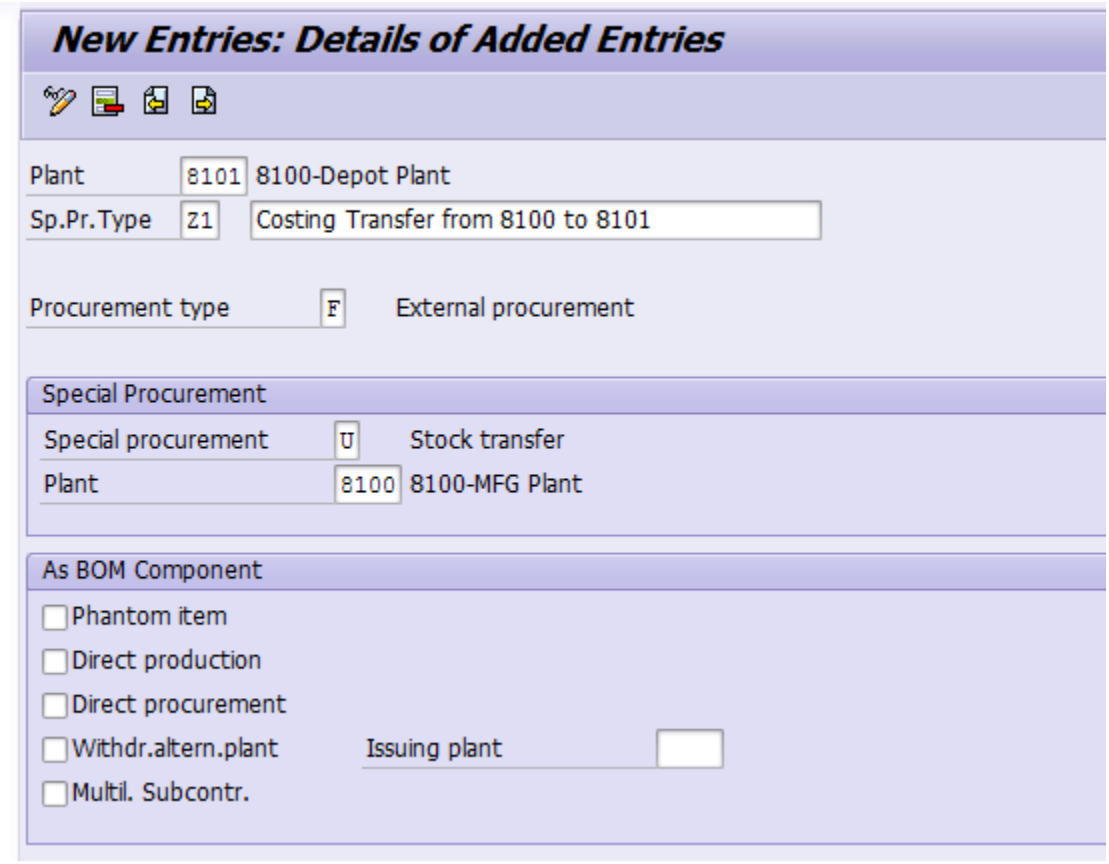


Cross Plant Costing

Special procurement process

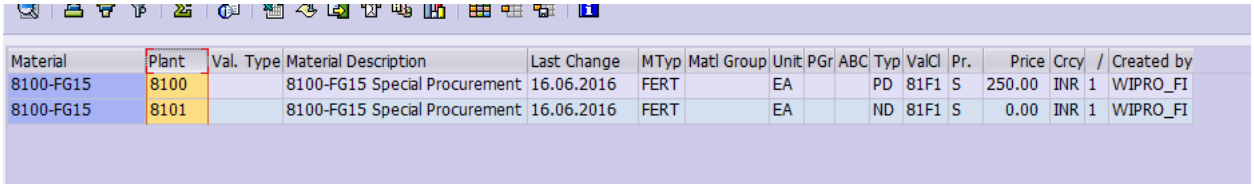
Configuration

Check Special Procurement Types-OMD9



Same material need to be create in both the plants (8100 & 8101)

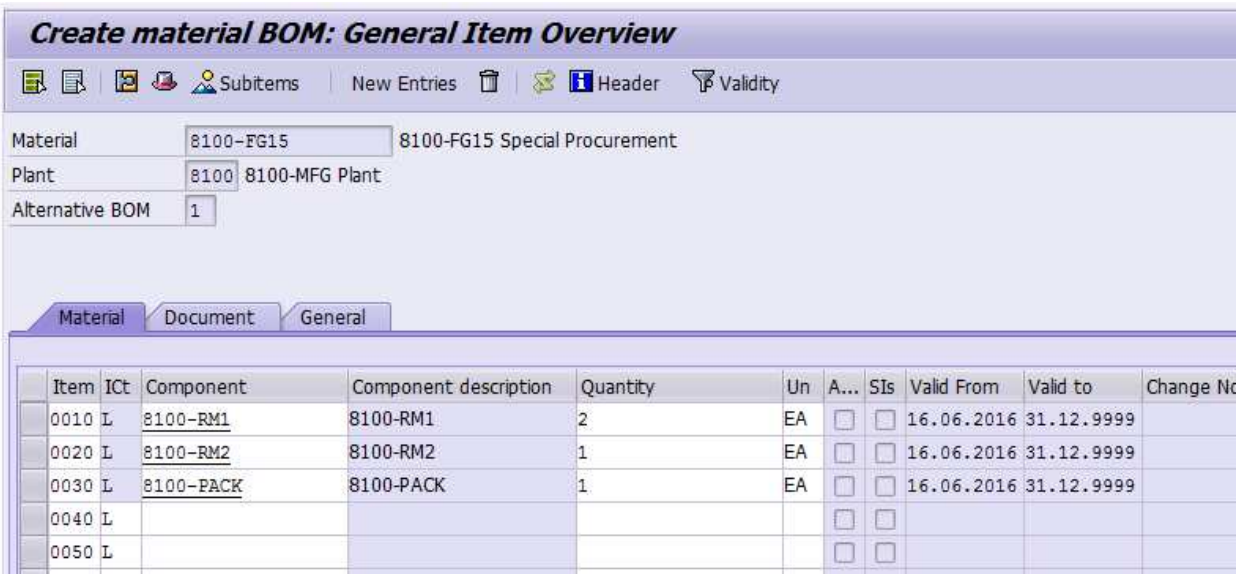
MM60.



Material	Plant	Val. Type	Material Description	Last Change	MTyp	Matl Group	Unit	PGr	ABC	Typ	ValCl	Pr.	Price	Crcy	/	Created by
8100-FG15	8100		8100-FG15 Special Procurement	16.06.2016	FERT		EA			PD	81F1	S	250.00	INR	1	WIPRO_FI
8100-FG15	8101		8100-FG15 Special Procurement	16.06.2016	FERT		EA			ND	81F1	S	0.00	INR	1	WIPRO_FI

BOM & Routing need to be create for 8100 mfg plant only

CS01

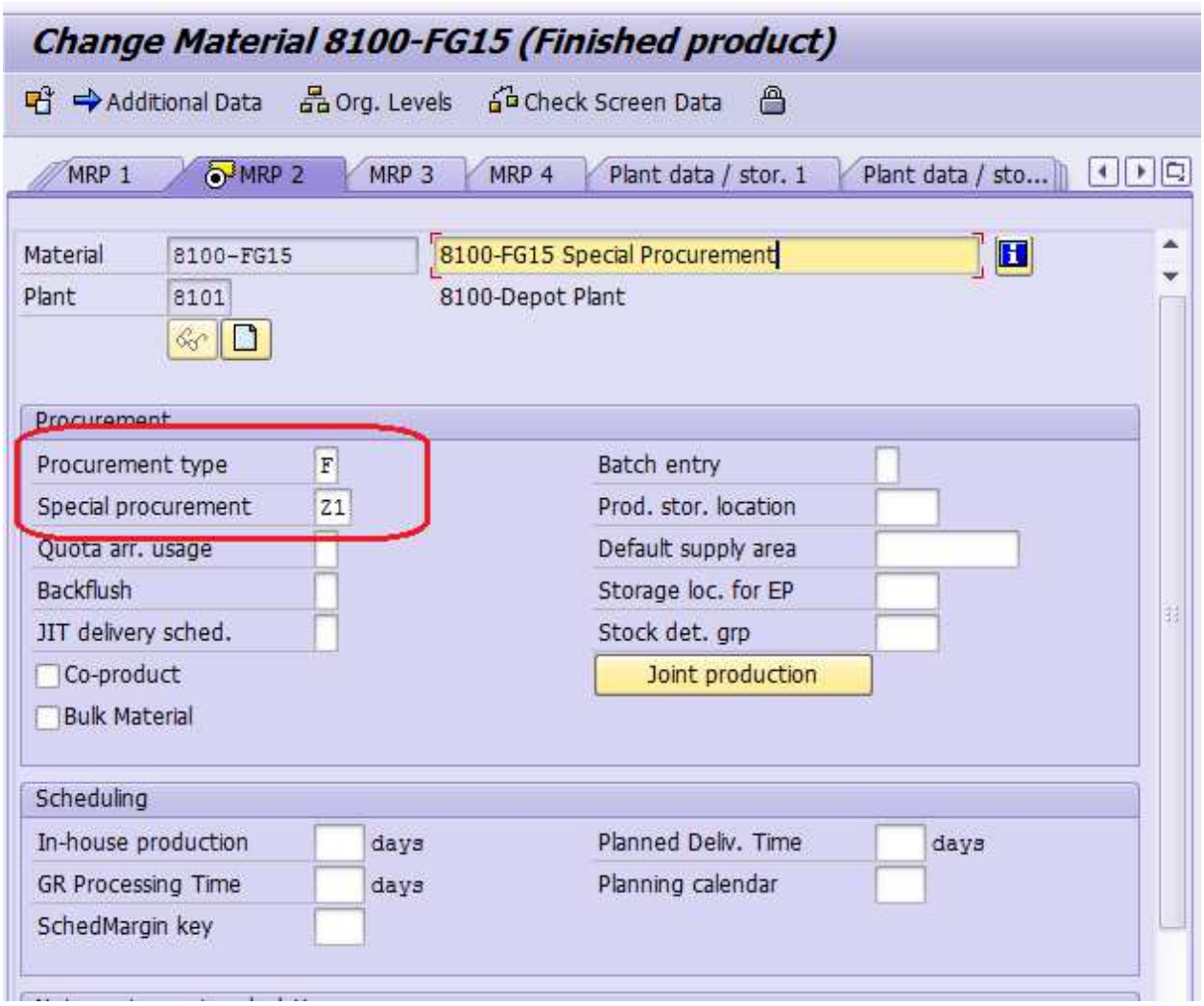


CA01

MM02

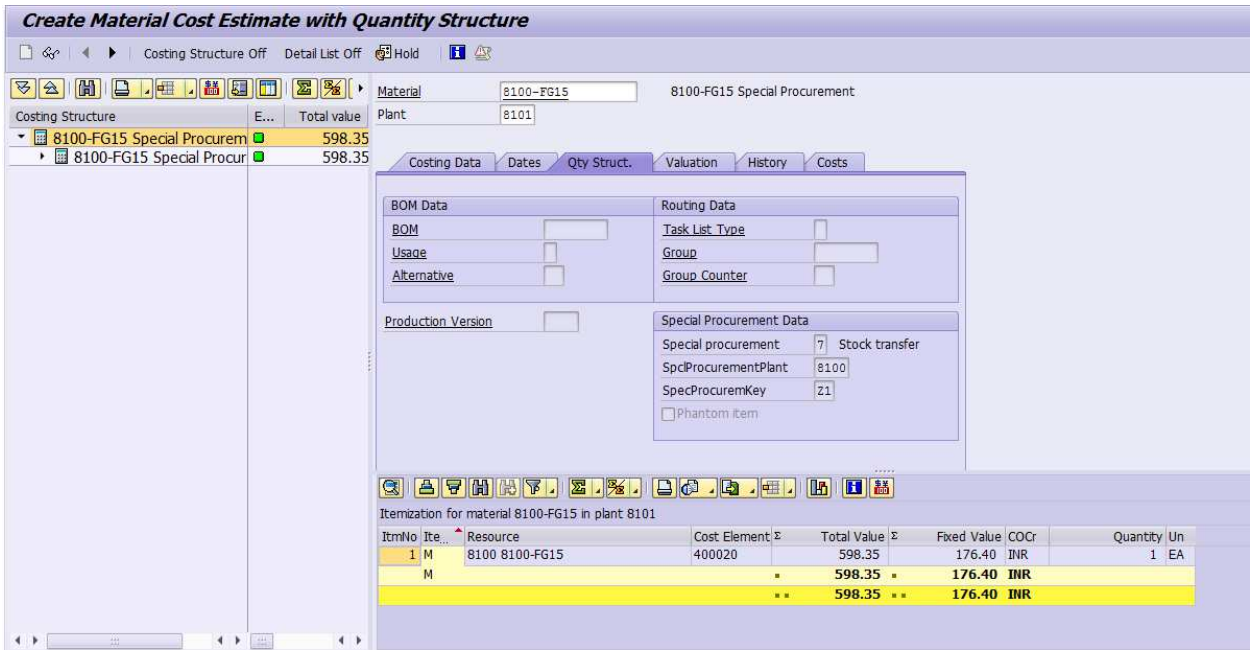
For 8101 Plant material

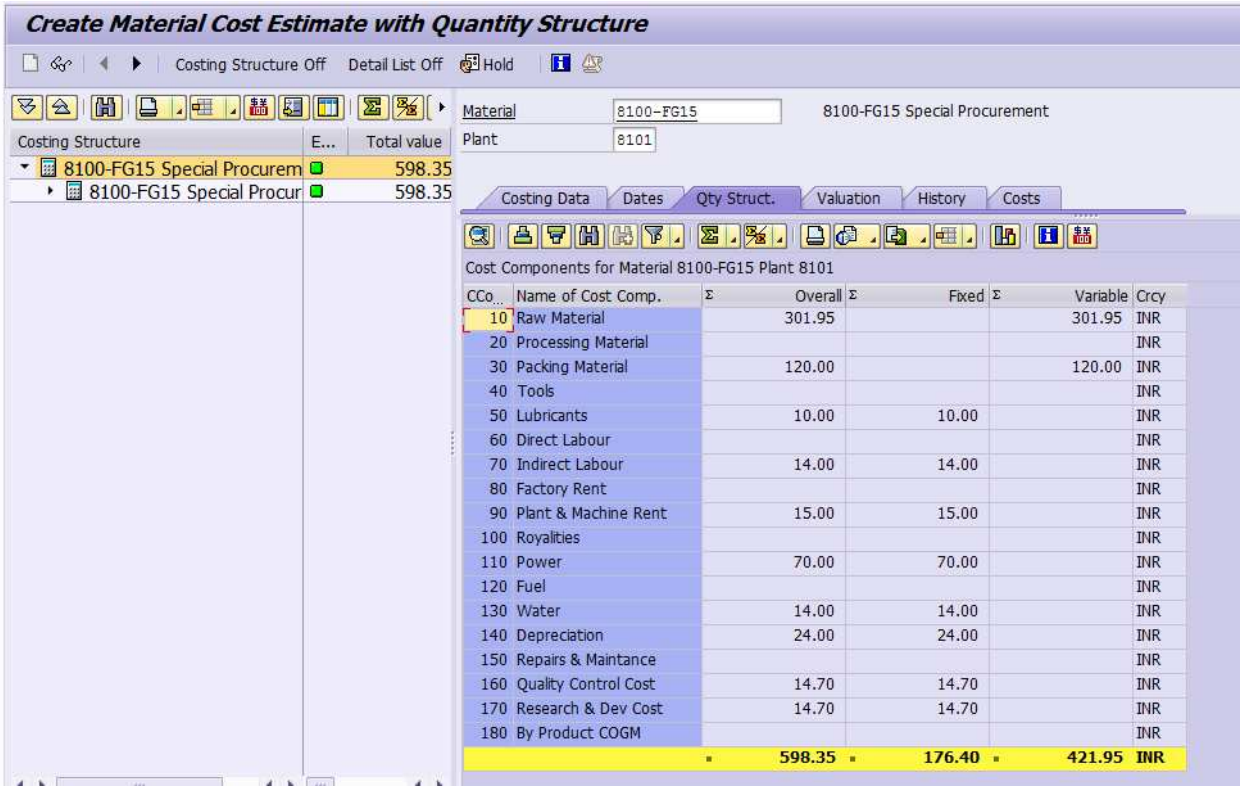
Procurement type & Special procurement need to be assigned

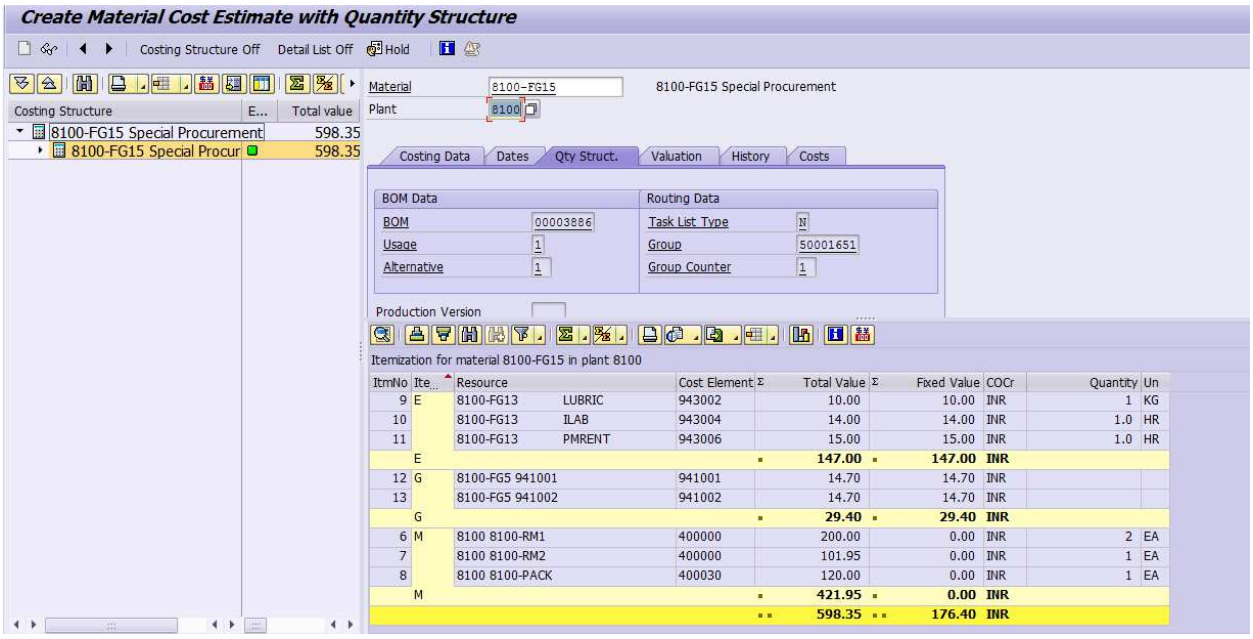


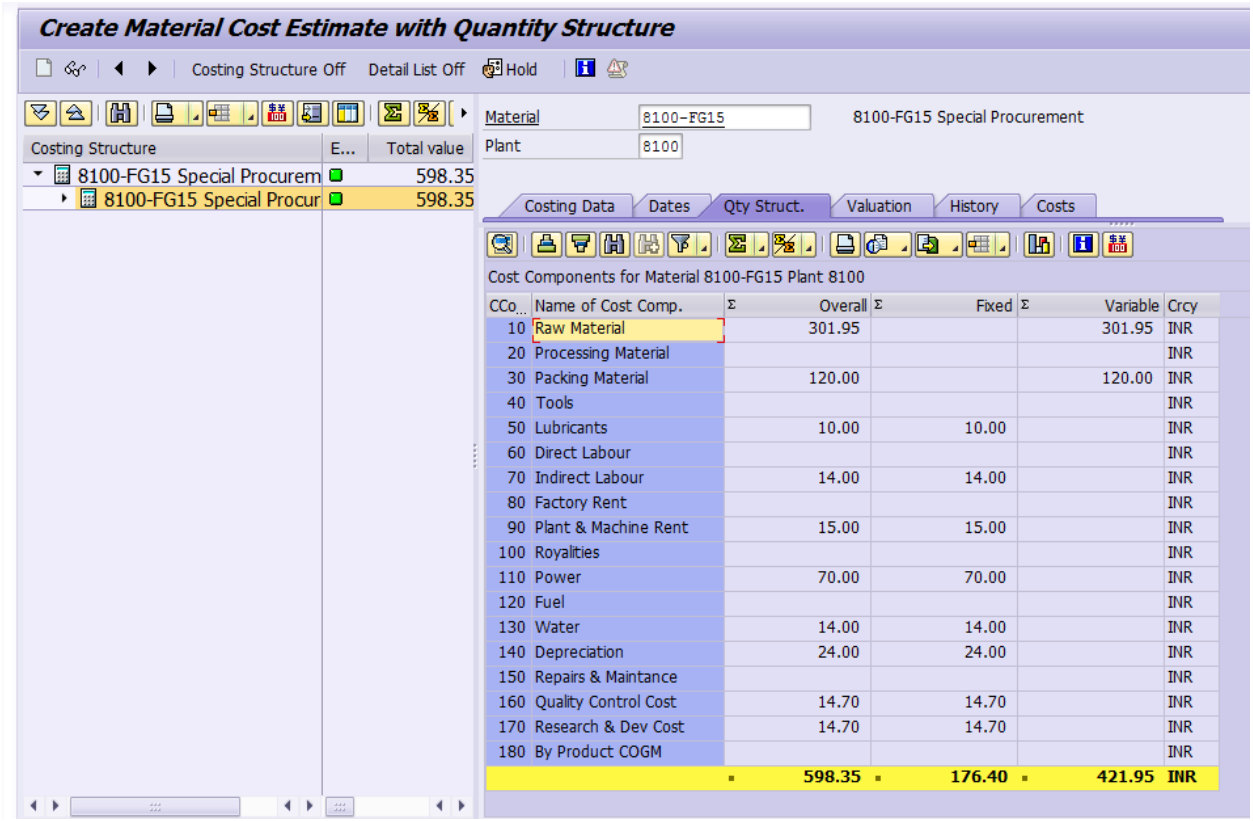
CK11N For both the plants

We Can observe 8101 plant, no BOM & Routing .Only Special Procurement data only and itemization break up will not come but cost component level will come.

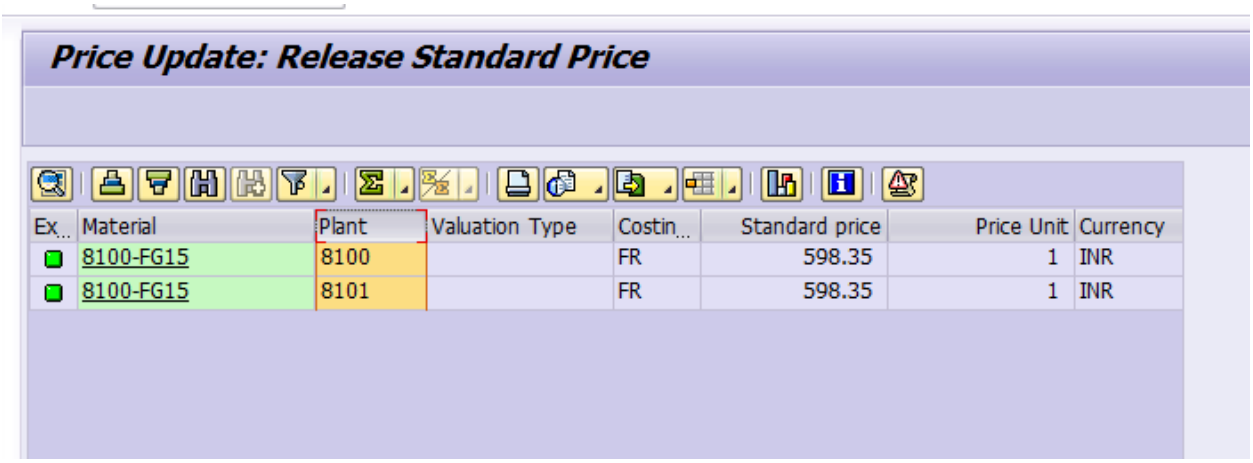

Create Material Cost Estimate with Quantity Structure
Costing Structure Off
Detail List Off
Hold
Material 8100-FG15
8100-FG15 Special Procurement
Plant 8101
Costing Structure
E...
Total value
8100-FG15 Special Procurem 598.35
8100-FG15 Special Procur 598.35
Costing Data
Dates
Qty Struct.
Valuation
History
Costs
BOM Data
BOM
Usage
Alternative
Routing Data
Task List Type
Group
Group Counter
Production Version
Special Procurement Data
Special procurement 7 Stock transfer
SpclProcurementPlant 8100
SpecProcuremKey Z1
Phantom item
Itemization for material 8100-FG15 in plant 8101
ItmNo Ite... Resource Cost Element Total Value Fixed Value COCr Quantity Un
1 M 8100 8100-FG15 400020 598.35 176.40 INR 1 EA
M 598.35 176.40 INR
598.35 176.40 INR


Create Material Cost Estimate with Quantity Structure
Costing Structure Off
Detail List Off
Hold
Material 8100-FG15
8100-FG15 Special Procurement
Plant 8101
Costing Structure
E...
Total value
8100-FG15 Special Procurem 598.35
8100-FG15 Special Procur 598.35
Costing Data
Dates
Qty Struct.
Valuation
History
Costs
Cost Components for Material 8100-FG15 Plant 8101
CCo... Name of Cost Comp. Overall Fixed Variable Crcy
10 Raw Material 301.95 301.95 INR
20 Processing Material INR
30 Packing Material 120.00 120.00 INR
40 Tools INR
50 Lubricants 10.00 10.00 INR
60 Direct Labour INR
70 Indirect Labour 14.00 14.00 INR
80 Factory Rent INR
90 Plant & Machine Rent 15.00 15.00 INR
100 Royalities INR
110 Power 70.00 70.00 INR
120 Fuel INR
130 Water 14.00 14.00 INR
140 Depreciation 24.00 24.00 INR
150 Repairs & Maintance INR
160 Quality Control Cost 14.70 14.70 INR
170 Research & Dev Cost 14.70 14.70 INR
180 By Product COGM INR
598.35 176.40 421.95 INR





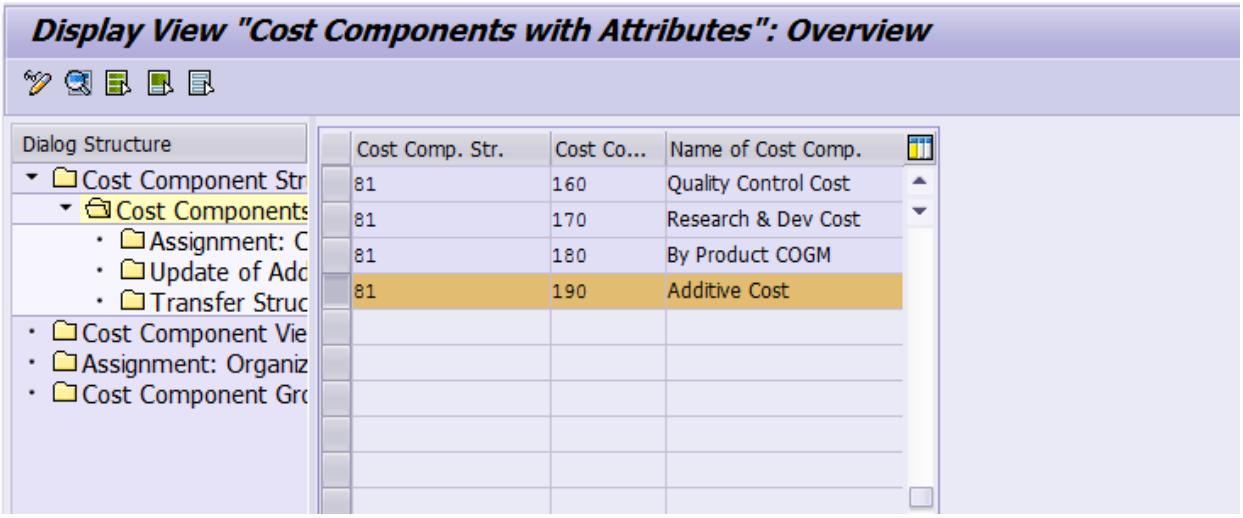
CK24-Relase Standard Cost estimation for both the plants



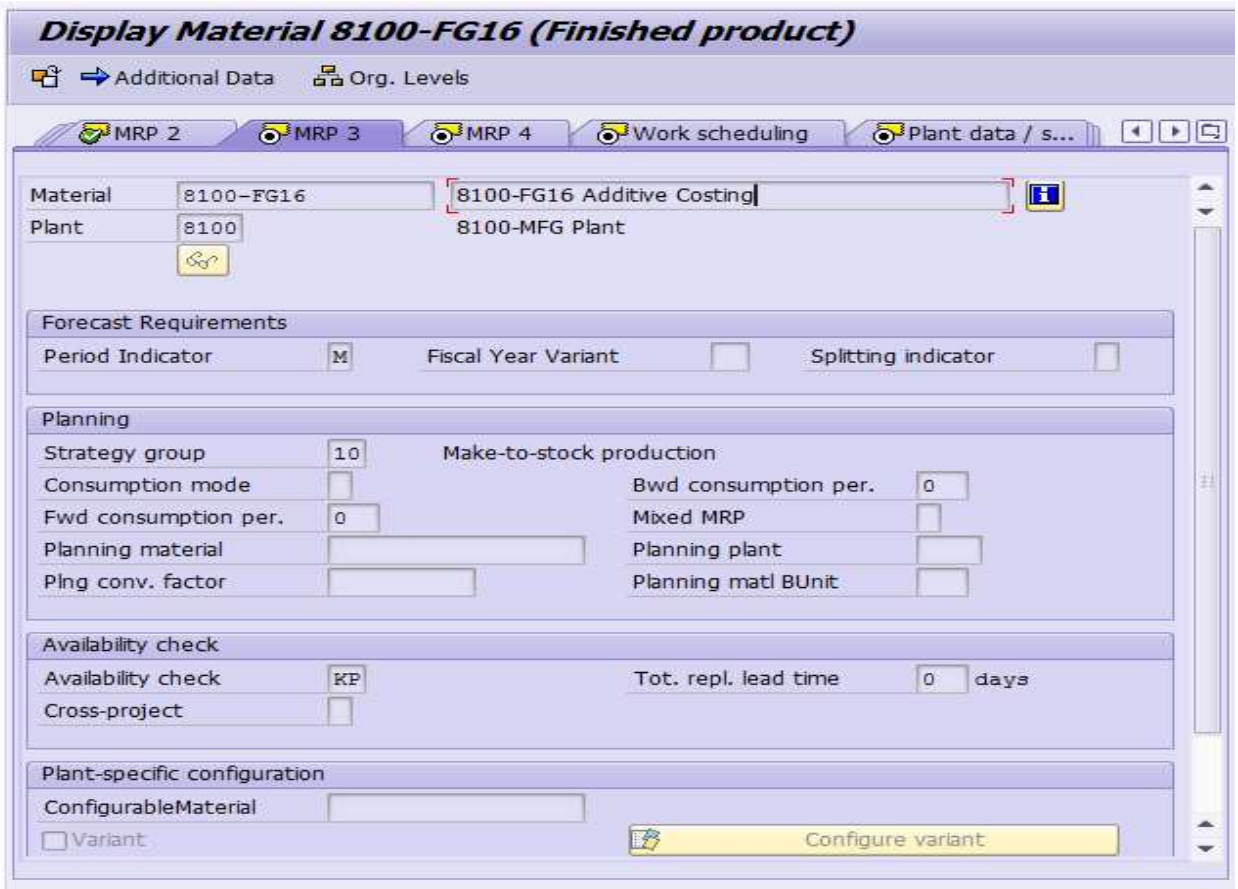
We can do production process for the 8100 mfg plant material.

Additive Costing

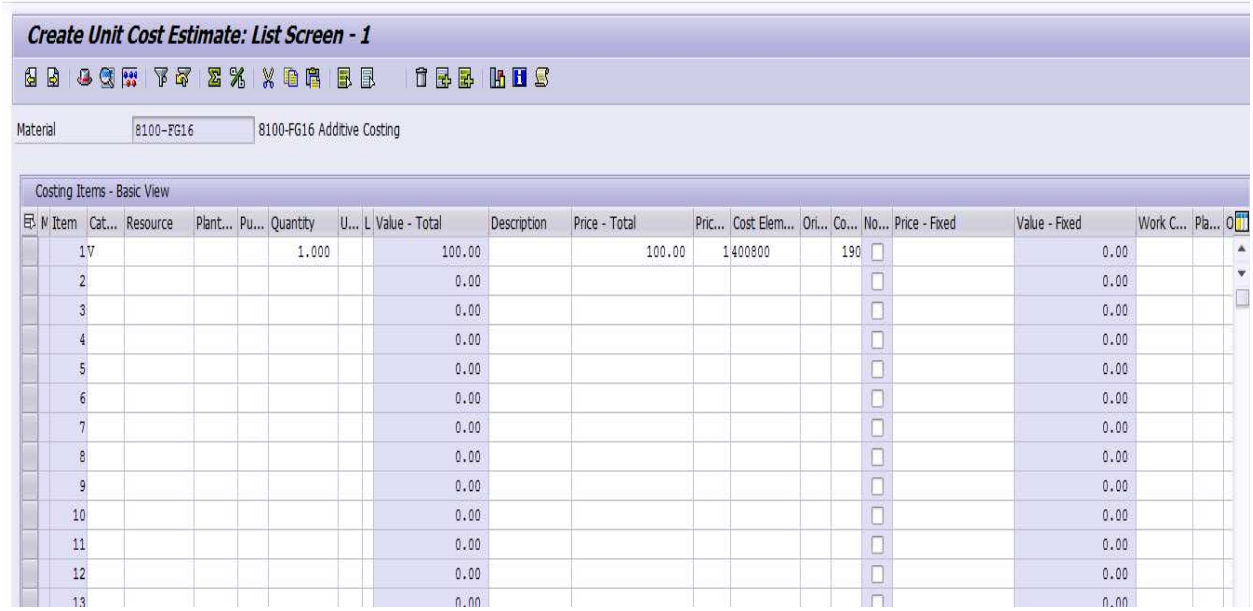
OKTZ-Create Additive Cost as one of the component.

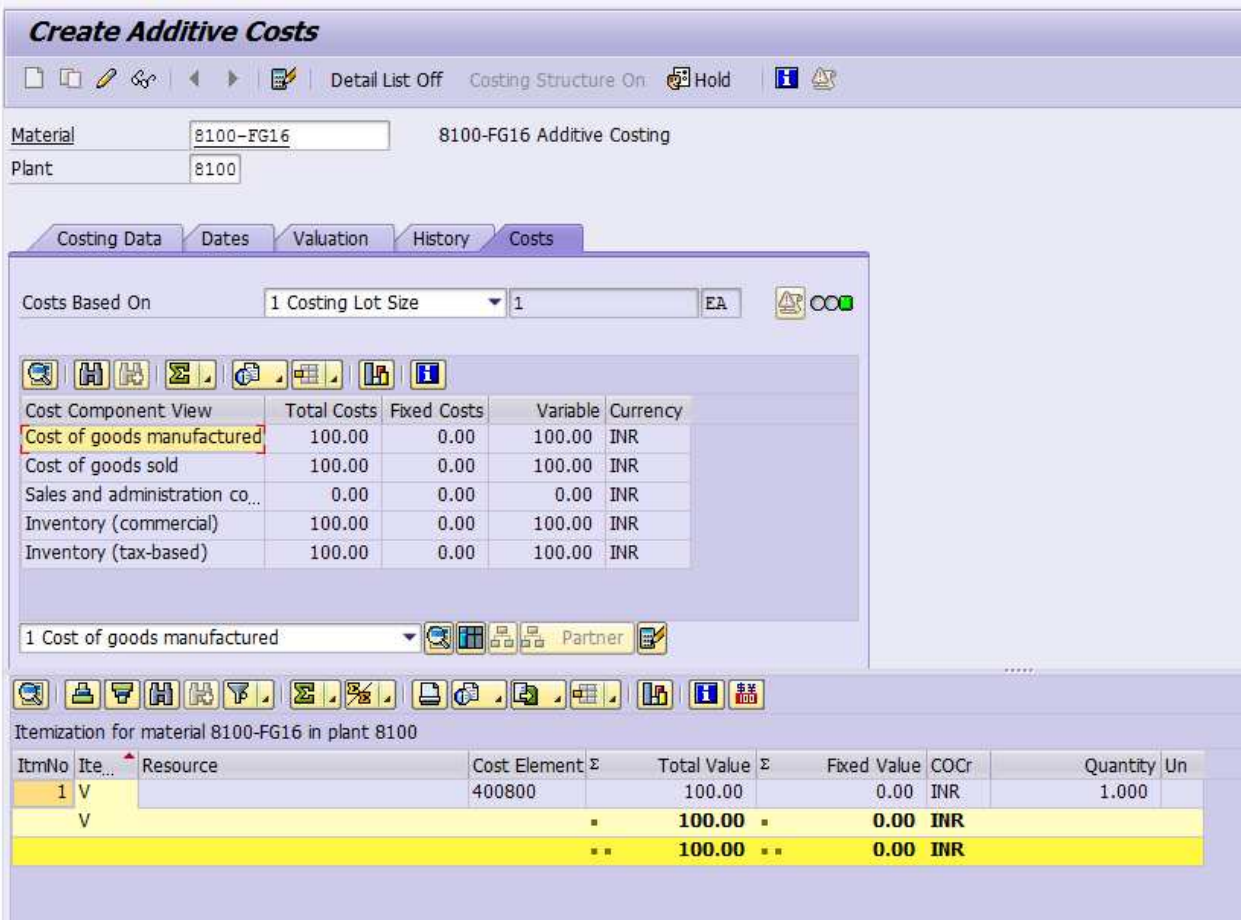


MM01

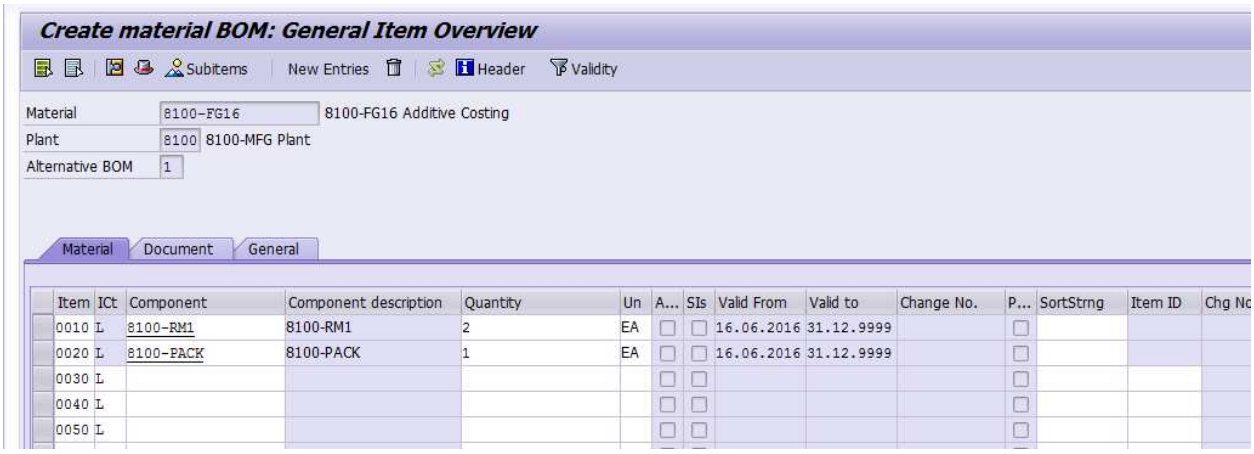


Additive Costs -CK74N – Create



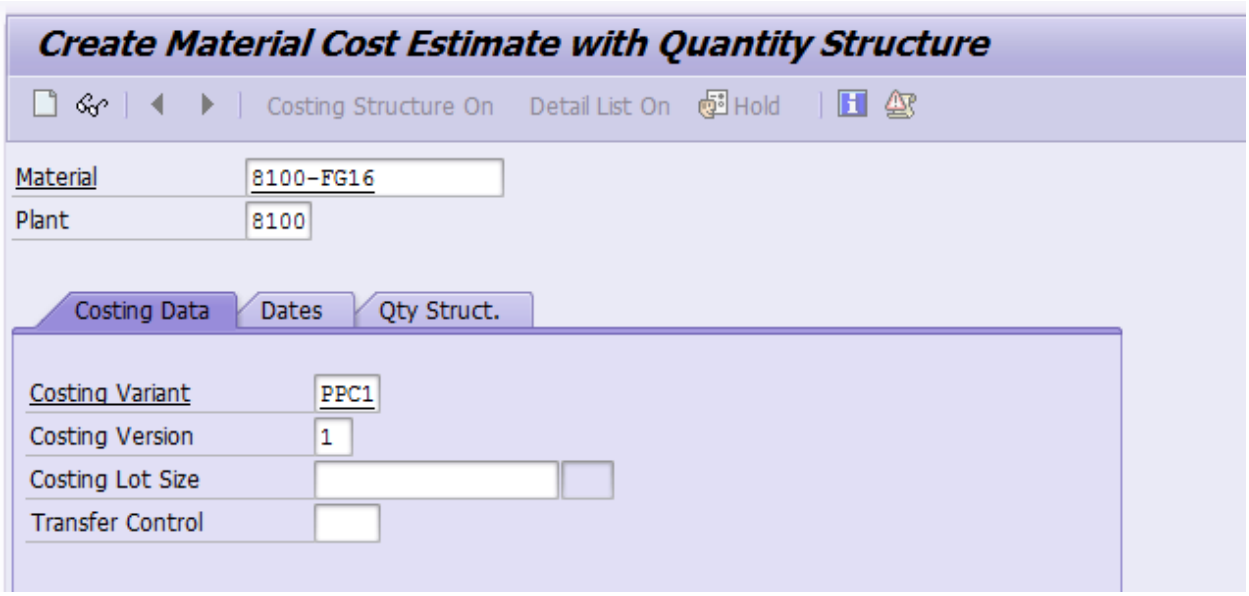


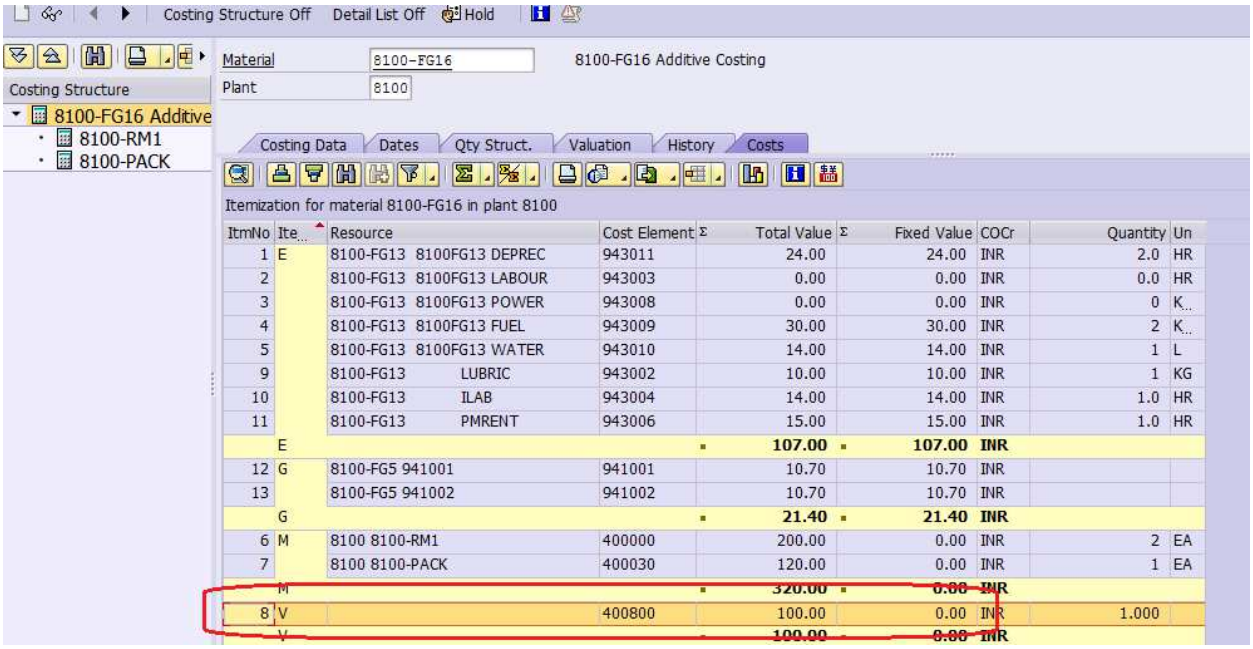
CS01-Bill of Material



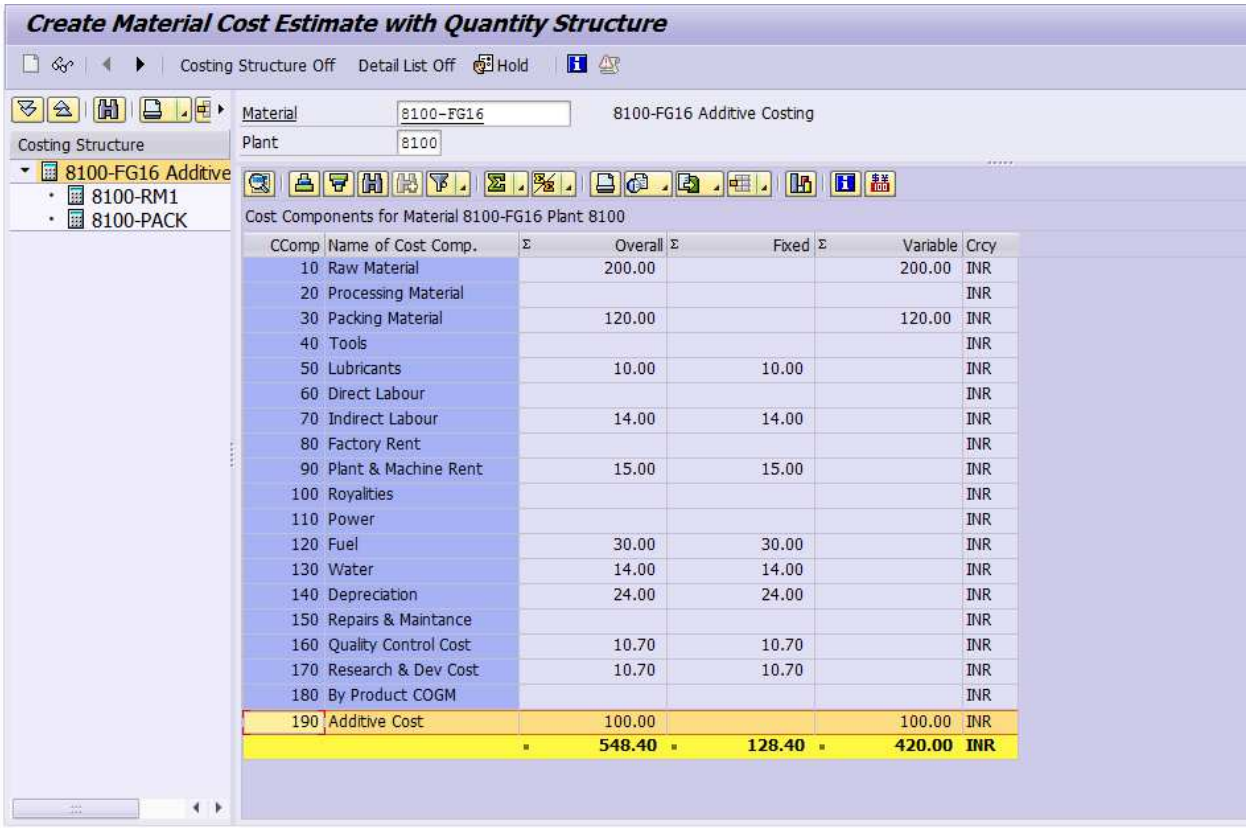
CA01-Routing

CK11N-Standard Cost estimation



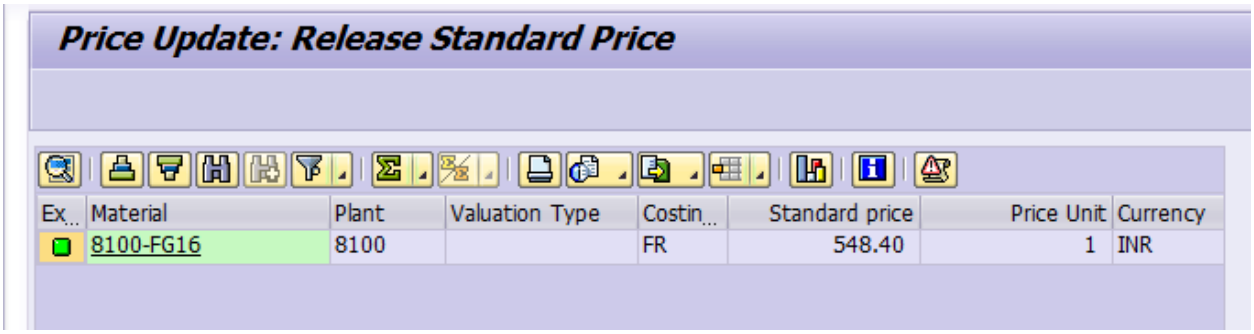


ItmNo	Ite...	Resource	Cost Element	Σ	Total Value	Σ	Fixed Value	COCr	Quantity	Un
1	E	8100-FG13 8100FG13 DEPREC	943011		24.00		24.00	INR	2.0	HR
2		8100-FG13 8100FG13 LABOUR	943003		0.00		0.00	INR	0.0	HR
3		8100-FG13 8100FG13 POWER	943008		0.00		0.00	INR	0	K...
4		8100-FG13 8100FG13 FUEL	943009		30.00		30.00	INR	2	K...
5		8100-FG13 8100FG13 WATER	943010		14.00		14.00	INR	1	L
9		8100-FG13 LUBRIC	943002		10.00		10.00	INR	1	KG
10		8100-FG13 ILAB	943004		14.00		14.00	INR	1.0	HR
11		8100-FG13 PMRENT	943006		15.00		15.00	INR	1.0	HR
	E				**107.00**		**107.00**	**INR**		
12	G	8100-FG5 941001	941001		10.70		10.70	INR		
13		8100-FG5 941002	941002		10.70		10.70	INR		
	G				**21.40**		**21.40**	**INR**		
6	M	8100 8100-RM1	400000		200.00		0.00	INR	2	EA
7		8100 8100-PACK	400030		120.00		0.00	INR	1	EA
	M				**320.00**		**0.00**	**INR**		
8	V		400800		100.00		0.00	INR	1.000	
	V				**100.00**		**0.00**	**INR**		

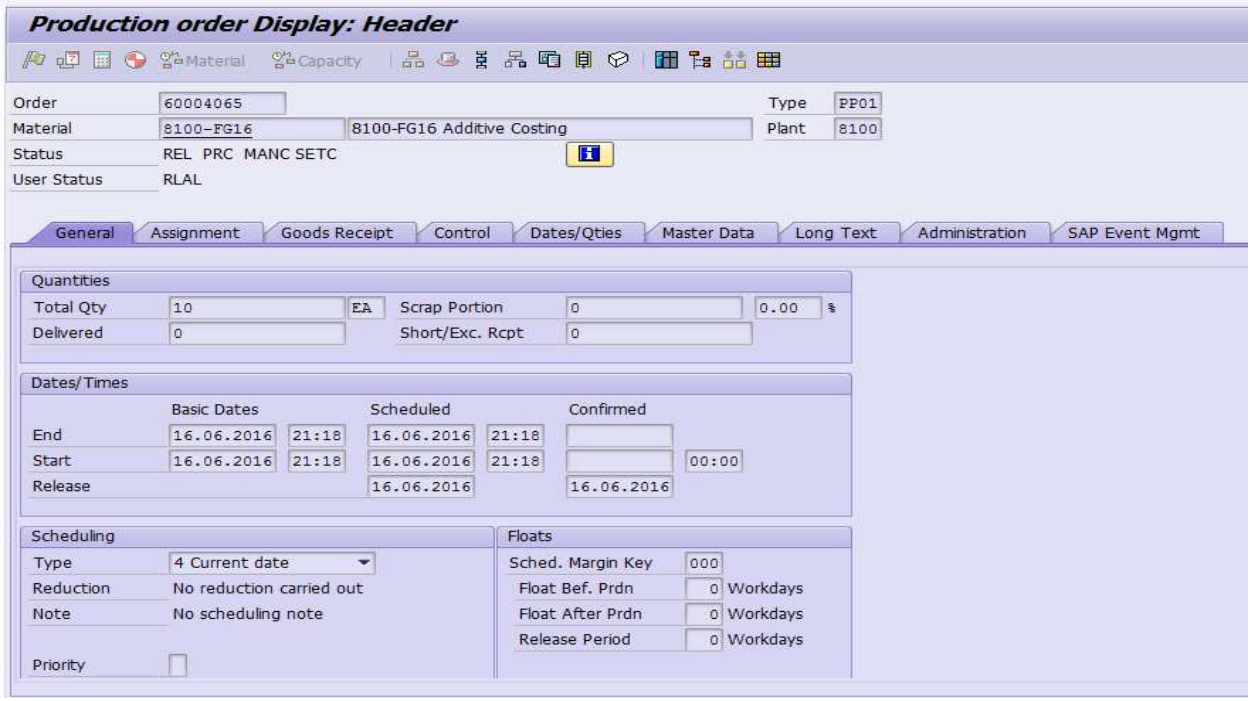


CComp	Name of Cost Comp.	Σ	Overall	Σ	Fixed	Σ	Variable	Crcy
10	Raw Material		200.00				200.00	INR
20	Processing Material							INR
30	Packing Material		120.00				120.00	INR
40	Tools							INR
50	Lubricants		10.00		10.00			INR
60	Direct Labour							INR
70	Indirect Labour		14.00		14.00			INR
80	Factory Rent							INR
90	Plant & Machine Rent		15.00		15.00			INR
100	Royalities							INR
110	Power							INR
120	Fuel		30.00		30.00			INR
130	Water		14.00		14.00			INR
140	Depreciation		24.00		24.00			INR
150	Repairs & Maintance							INR
160	Quality Control Cost		10.70		10.70			INR
170	Research & Dev Cost		10.70		10.70			INR
180	By Product COGM							INR
190	Additive Cost		100.00				100.00	INR
			548.40		**128.40**		**420.00**	**INR**

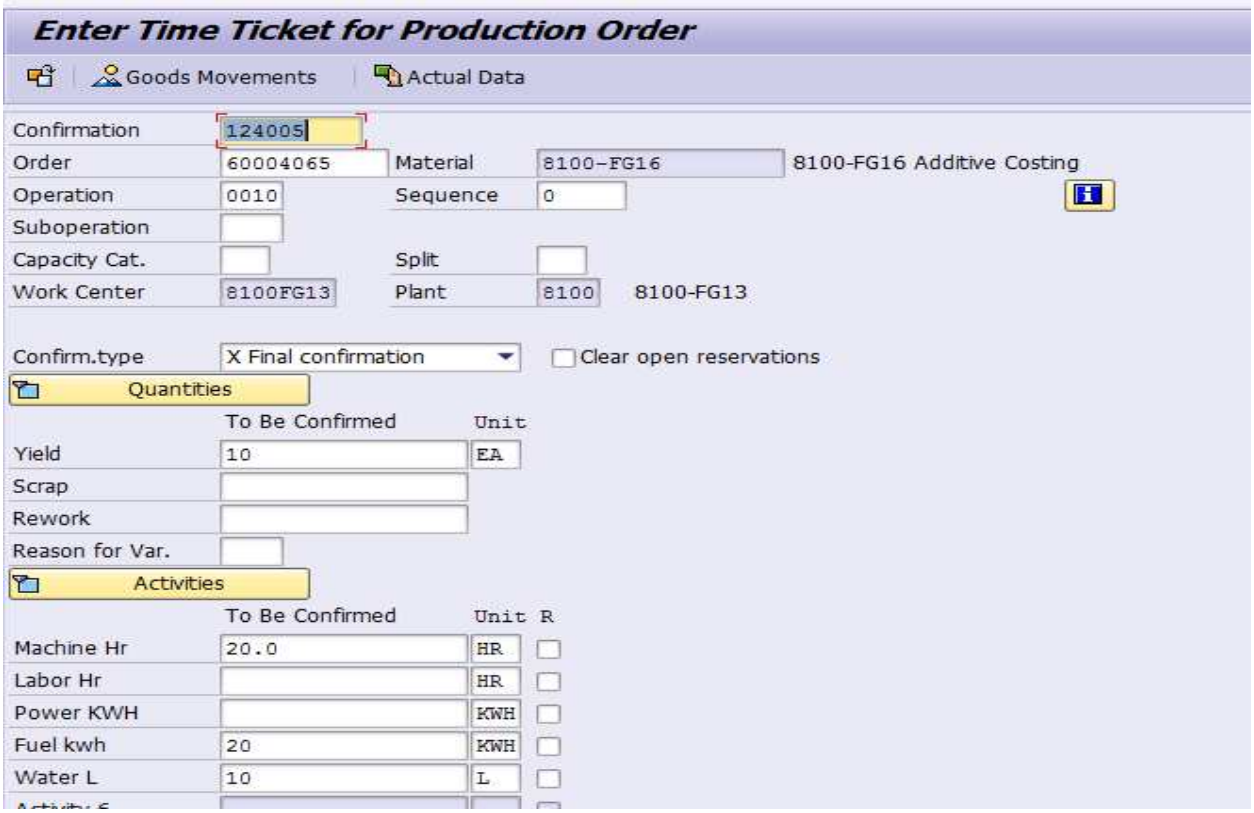
CK24-Costing release



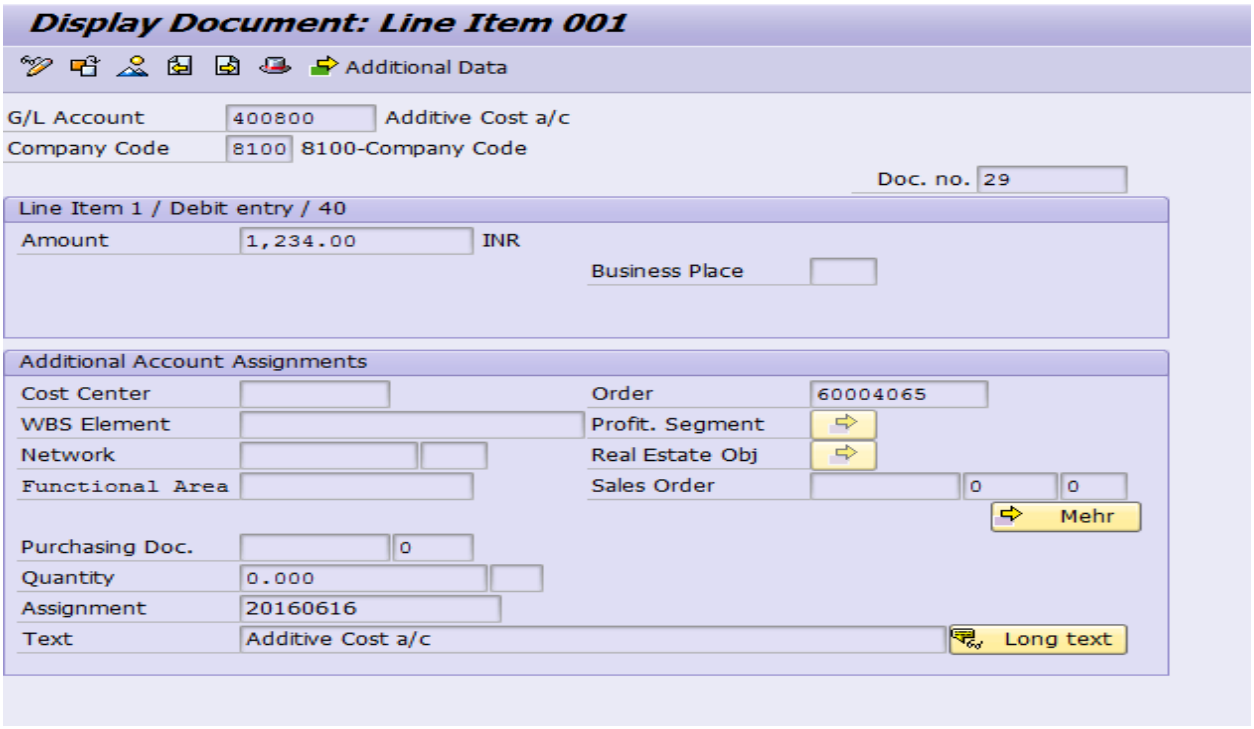
CO01-Production Order creation



CO11N-Production order Confirmation



Actual Additive Cost booking-F-02



Order 60004065 8100-FG16
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG16 8100-FG16 Additive Costing

Planned Quantity 10 EA Each
Actual Quantity 10 EA Each

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,000.00	0.00		INR
	8100/8100-PACK	8100-PACK	1,200.00	1,200.00	0.00		INR
		(without origin)	0.00	1,234.00	1,234.00		INR
Goods Issues			**3,200.00**	**4,434.00**	**1,234.00**		**INR**
Confirmations	8100-FG13/LUBRIC	8100-FG13 / Lubricants	10.00	0.00	10.00-	100.00-	INR
	8100-FG13/ILAB	8100-FG13 / Indirect Labour	14.00	0.00	14.00-	100.00-	INR
	8100-FG13/PMRENT	8100-FG13 / P&M Rent	15.00	0.00	15.00-	100.00-	INR
	8100-FG13/FUEL	8100-FG13 / Fuel	300.00	300.00	0.00		INR
	8100-FG13/WATER	8100-FG13 / Water	140.00	140.00	0.00		INR
	8100-FG13/DEPREC	8100-FG13 / Depreciation	240.00	240.00	0.00		INR
Confirmations			**719.00**	**680.00**	**39.00-**		**INR**
Overhead	8100-FG5	8100-FG5	71.90	0.00	71.90-	100.00-	INR
	8100-FG5	8100-FG5	71.90	0.00	71.90-	100.00-	INR
Overhead			**143.80**	**0.00**	**143.80-**		**INR**
Goods Receipt	8100/8100-FG16	8100-FG16 Additive Costing	5,484.00-	5,484.00-	0.00		INR
Goods Receipt			**5,484.00-**	**5,484.00-**	**0.00**		**INR**
			1,421.20-	**370.00-**	**1,051.20**		**INR**

Run Template allocation, Over Head Calculation

KKS2-Variance Calculation

Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 6 Fiscal year 2016 Messages 1 Currency INR
Version 0 Target Cost Version (0) 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
8100	ORD 60004065	5,484.00	5,343.60	5,484.00	0.00	0.00	140.40-

KO88 Settlement

Actual Settlement: Order Detail list

Basic list | Sender | Receiver | Accounting documents | Settlement rule | Save | Select

Detail list - Settled values

Senders	Short text: Sender	Receivers	ValCOArCur	Inform.
ORD 60004065	8100-FG16 Additive Costing	MAT 8100/8100-FG16	140.40-	
		PSG 0000000072	140.40-	Variances

CO03-Cost Trend

Order 60004065 8100-FG16
Order Type PP01 Standard Production Order (int. number)
Plant 8100 8100-MFG Plant
Material 8100-FG16 8100-FG16 Additive Costing

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency
Goods Issues	8100/8100-RM1	8100-RM1	2,000.00	2,000.00	0.00		INR
	8100/8100-PACK	8100-PACK	1,200.00	1,200.00	0.00		INR
		(without origin)	0.00	1,234.00	1,234.00		INR
Goods Issues			**3,200.00**	**4,434.00**	**1,234.00**		**INR**
Confirmations	8100-FG13/LUBRIC	8100-FG13 / Lubricants	10.00	20.00	10.00	100.00	INR
	8100-FG13/ILAB	8100-FG13 / Indirect Labour	14.00	28.00	14.00	100.00	INR
	8100-FG13/PMRENT	8100-FG13 / P&M Rent	15.00	30.00	15.00	100.00	INR
	8100-FG13/FUEL	8100-FG13 / Fuel	300.00	300.00	0.00		INR
	8100-FG13/WATER	8100-FG13 / Water	140.00	140.00	0.00		INR
	8100-FG13/DEPREC	8100-FG13 / Depreciation	240.00	240.00	0.00		INR
Confirmations			**719.00**	**758.00**	**39.00**		**INR**
Overhead	8100-FG5	8100-FG5	71.90	75.80	3.90	5.42	INR
	8100-FG5	8100-FG5	71.90	75.80	3.90	5.42	INR
Overhead			**143.80**	**151.60**	**7.80**		**INR**
Goods Receipt	8100/8100-FG16	8100-FG16 Additive Costing	5,484.00-	5,484.00-	0.00		INR
Goods Receipt			**5,484.00-**	**5,484.00-**	**0.00**		**INR**
Settlement		(without origin)	0.00	140.40	140.40		INR
Settlement			**0.00**	**140.40**	**140.40**		**INR**
			1,421.20-	**0.00**	**1,421.20**		**INR**

Variance Categories

Variance Categories

The following variance categories are shown based on key figures and/or original cost elements.
Variances are divided into variance categories on the **input side** and variance categories on the **output side**.

Input Side Variances

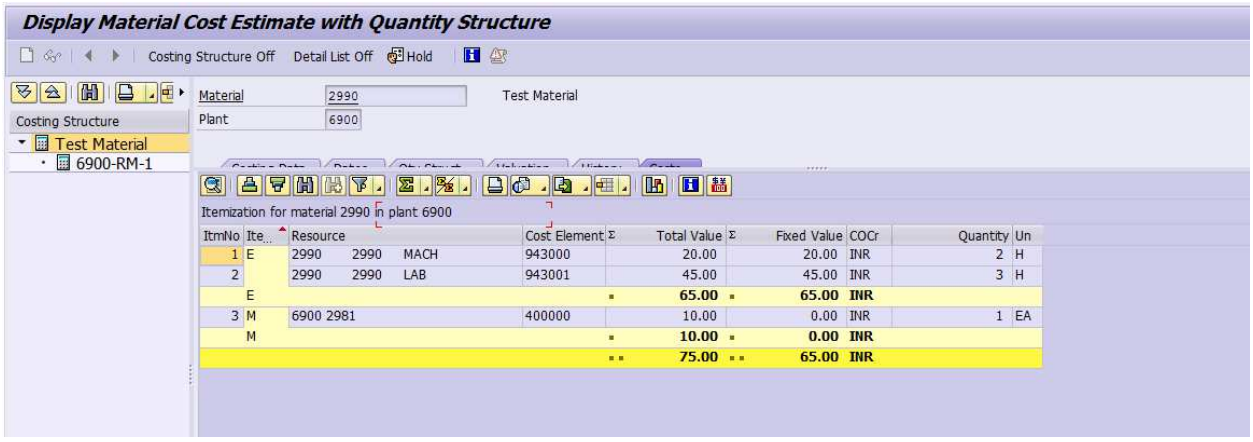
- Input price variance
- Input quantity variance
- Resource-usage variance
- Remaining input variance

Output Side Variances

- Mixed price variance
- Output price variance
- Remaining variance

Standard Cost estimation

Standard Costing			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	10	20
Labor	3	15	45
Total Standard Cost			75



Variances on the Input Side

Variances on the input side are variances based on goods issues, internal activity allocations, overhead allocation, and G/L account postings. These variances are assigned to the following variance categories according to their cause:

A).Input price variances

- Input price variances are caused by differences between the planned and actual prices of the materials and activities used.

1).Material Price Variance

Here Raw Material Price changed to12, while doing goods issue this price suppose 12, then

Actual Cost			
Components	Qty/Hr	Rate	Amount
Material	1	12	12
Machine	2	10	20
Labour	3	15	45
Total Actual Cost			77

Order 60004032 000000000000002990
Order Type PP01 Standard Production Order (int. number)
Plant 6900 6900-MFG PLANT
Material 2990 Test Material

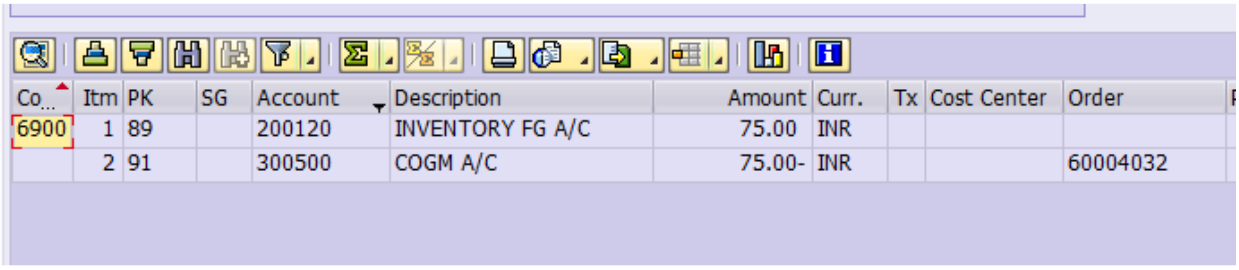
Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

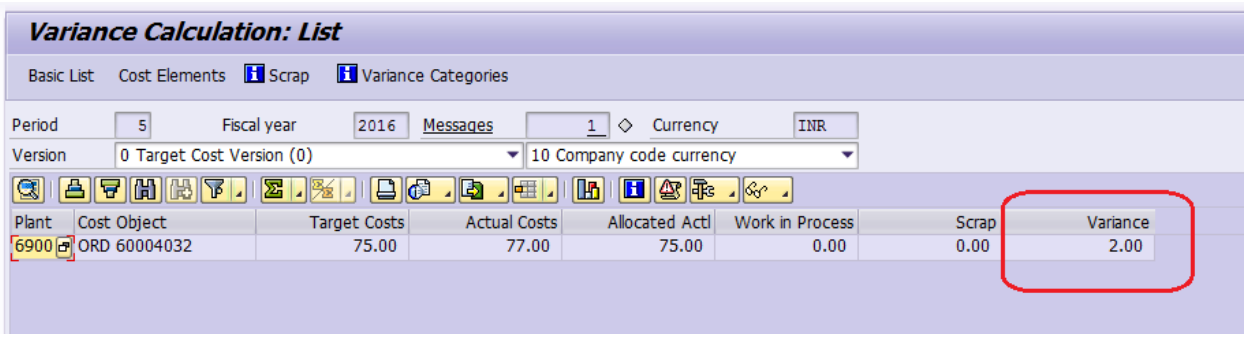
Transaction	Origin	Origin (Text)	Σ Tot. plan costs	Total actual costs	Σ	Plan/actual variance	P/A var(%)	Currency	Actual Qty
Goods Issues	6900/2981	6900-RM-1	10.00	12.00		2.00	20.00	INR	1
Goods Issues			**10.00**	**12.00**		**2.00**		**INR**	
Confirmations	2990/MACH	TEST Cost Center / MACHINERY	20.00	20.00		0.00		INR	2
	2990/LAB	TEST Cost Center / LABOUR	45.00	45.00		0.00		INR	3
Confirmations			**65.00**	**65.00**		**0.00**		**INR**	
Goods Receipt	6900/2990	Test Material	75.00-	75.00-		0.00		INR	1-
Goods Receipt			**75.00-**	**75.00-**		**0.00**		**INR**	
			0.00	**2.00**		**2.00**		**INR**	

Goods Receipt = 1 qty * 75 = 75

FI entry



Co...	Itm	PK	SG	Account	Description	Amount	Curr.	Tx	Cost Center	Order
6900	1	89		200120	INVENTORY FG A/C	75.00	INR			
	2	91		300500	COGM A/C	75.00-	INR			60004032



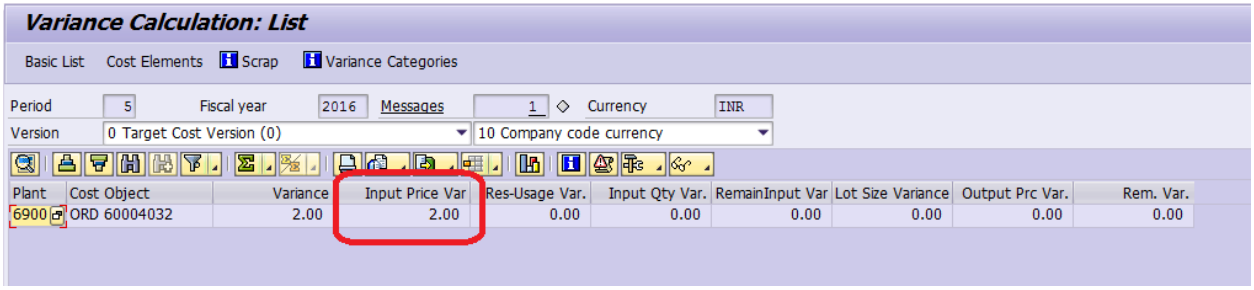
Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 5 | Fiscal year 2016 | Messages 1 | Currency INR

Version 0 Target Cost Version (0) | 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
6900	ORD 60004032	75.00	77.00	75.00	0.00	0.00	2.00



Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 5 | Fiscal year 2016 | Messages 1 | Currency INR

Version 0 Target Cost Version (0) | 10 Company code currency

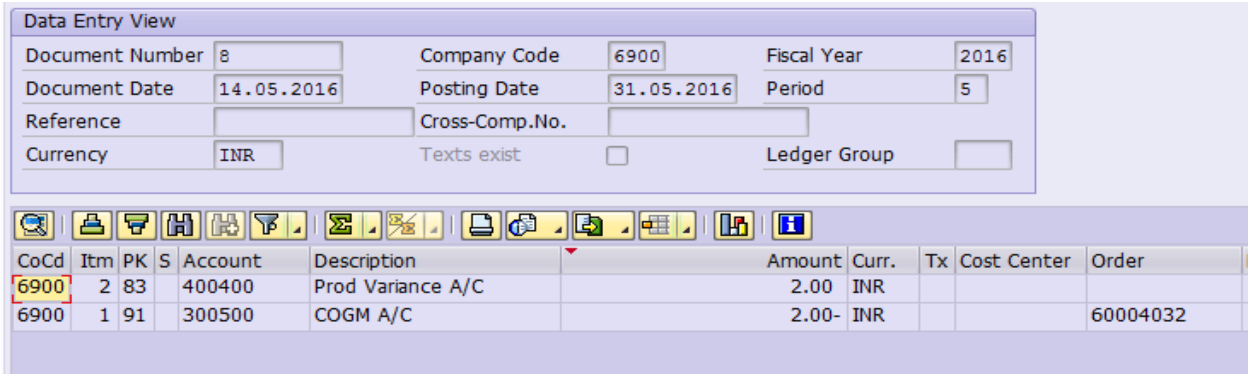
Plant	Cost Object	Variance	Input Price Var	Res-Usage Var.	Input Qty Var.	RemainInput Var	Lot Size Variance	Output Prc Var.	Rem. Var.
6900	ORD 60004032	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00

Here total variance is here 77-75 = 2 (due to material price changes happened)

This 2 will comes under **Input Price Variance**

Settlement

FI Entry



Data Entry View

Document Number	8	Company Code	6900	Fiscal Year	2016
Document Date	14.05.2016	Posting Date	31.05.2016	Period	5
Reference		Cross-Comp.No.			
Currency	INR	Texts exist	☐	Ledger Group	

CoCd	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order
6900	2	83		400400	Prod Variance A/C	2.00	INR			
6900	1	91		300500	COGM A/C	2.00-	INR			60004032

2).Activity RATE Variance

Here Activity rates changes 12 and 18 machine & Labor respectively. Raw Material Price changed to12, while doing goods issue this price suppose 12, then

Standard Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	10	20
Labour	3	15	45
Total Standard Cost			75

Actual Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	12	24
Labour	3	18	54
Total Actual Cost			88

Order 60004033 000000000000002990
Order Type PP01 Standard Production Order (int. number)
Plant 6900 6900-MFG PLANT
Material 2990 Test Material

Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

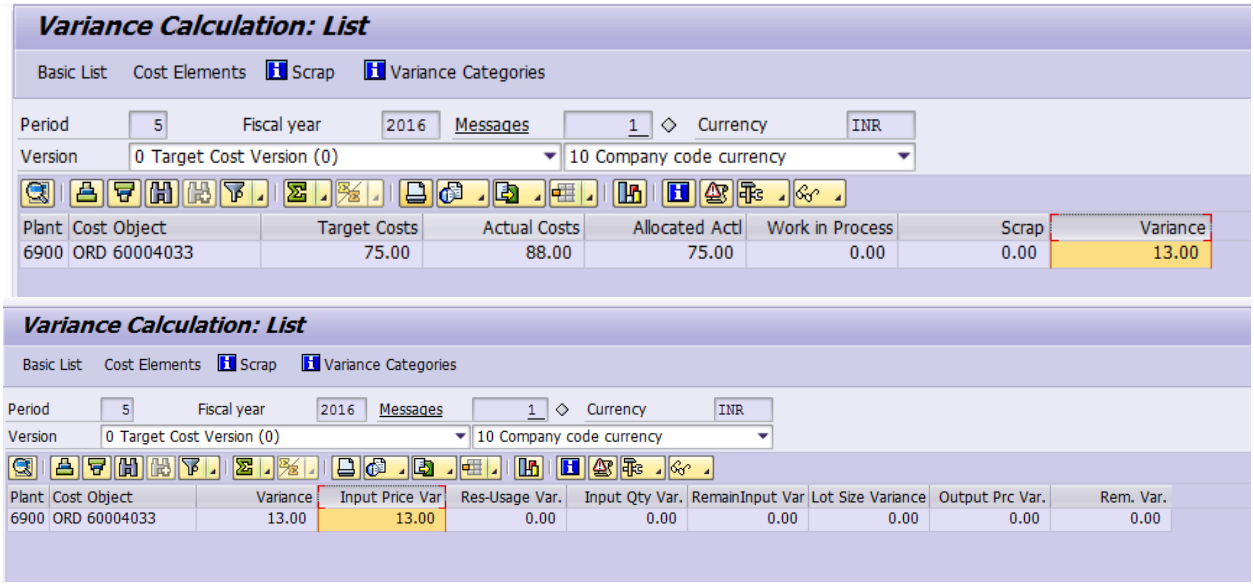
Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency	Actual Qty
Goods Issues	6900/2981	6900-RM-1	10.00	10.00	0.00		INR	1
Goods Issues			**10.00**	**10.00**	**0.00**		**INR**	
Confirmations	2990/MACH	TEST Cost Center / MACHI...	20.00	24.00	4.00	20.00	INR	2
	2990/LAB	TEST Cost Center / LABOUR	45.00	54.00	9.00	20.00	INR	3
Confirmations			**65.00**	**78.00**	**13.00**		**INR**	
Goods Receipt	6900/2990	Test Material	75.00-	75.00-	0.00		INR	1-
Goods Receipt			**75.00-**	**75.00-**	**0.00**		**INR**	
			0.00	**13.00**	**13.00**		**INR**	

Goods Receipt = 1 qty * 75 = 75

FI entry

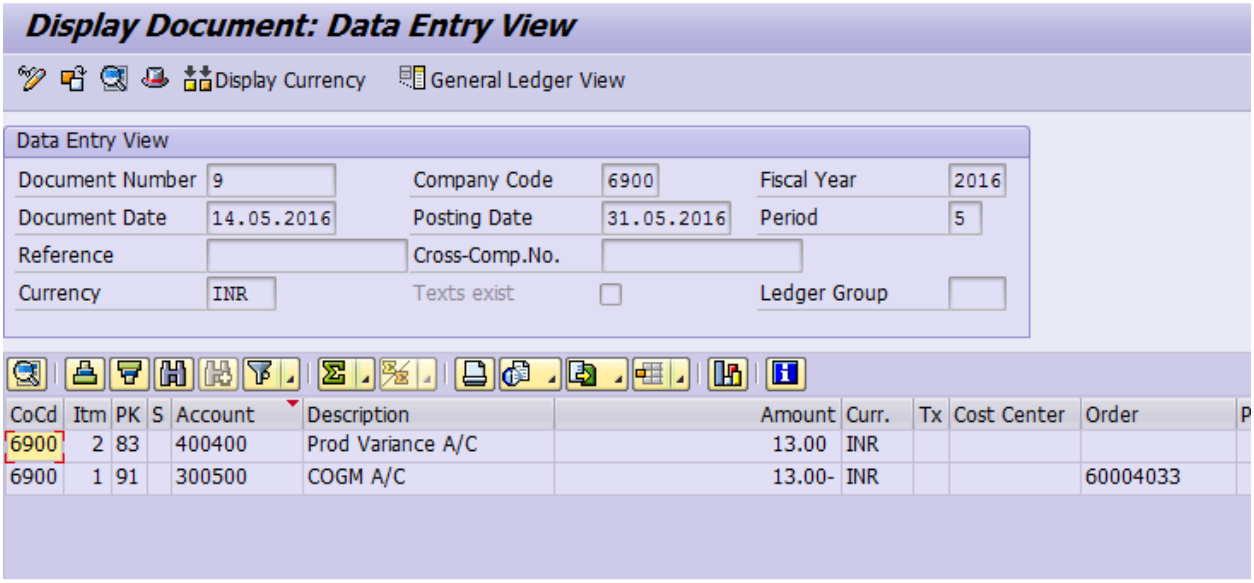
Co...	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order
6900	1	89		200120	INVENTORY FG A/C	75.00	INR			
	2	91		300500	COGM A/C	75.00-	INR			60004033



Here total variance is here 88-75 = 13 (due to material price changes happened)
This 13 will comes under **Input Price Variance**

Settlement

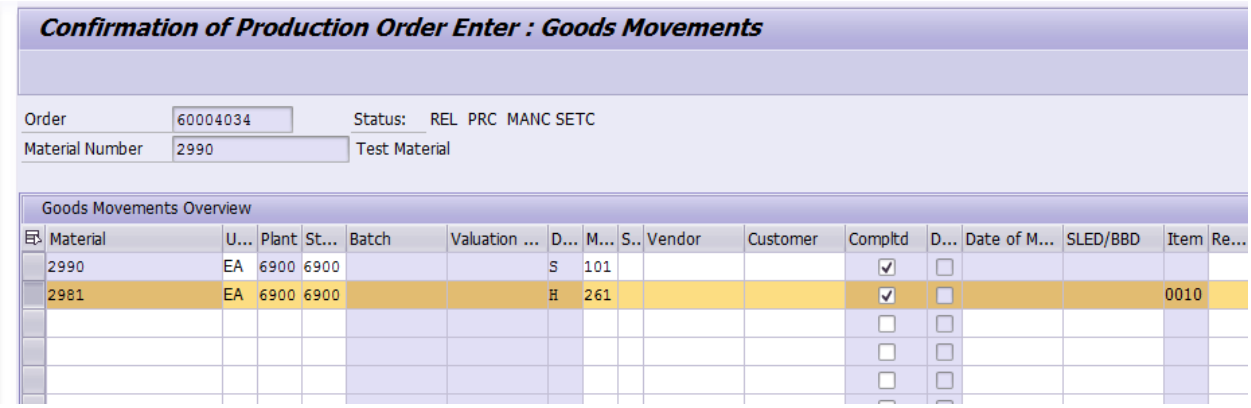
FI Entry



- **Input quantity variances**
  - Input quantity variances are caused by differences between the planned and actual consumption quantities of materials and activities. Select the Material origin indicator in the costing view of the master record of all materials that have a large influence on your costs.

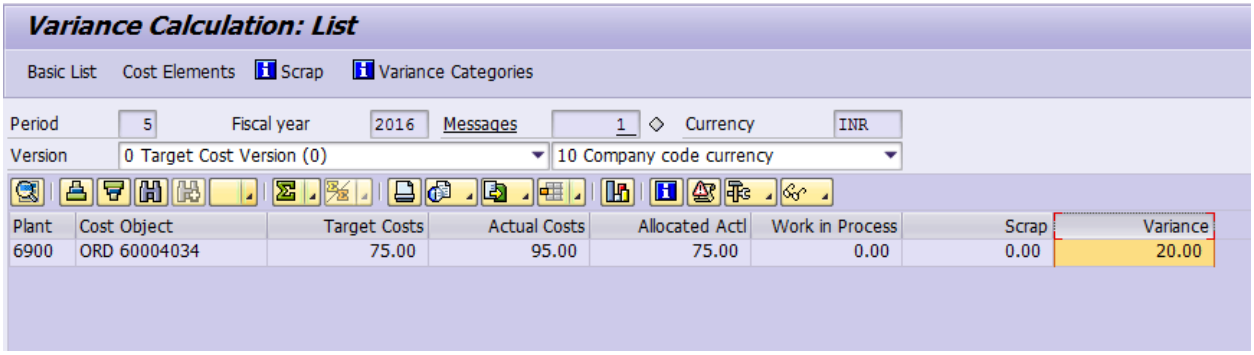
If you want to see input quantity variances and input price variances, you must make the following settings:

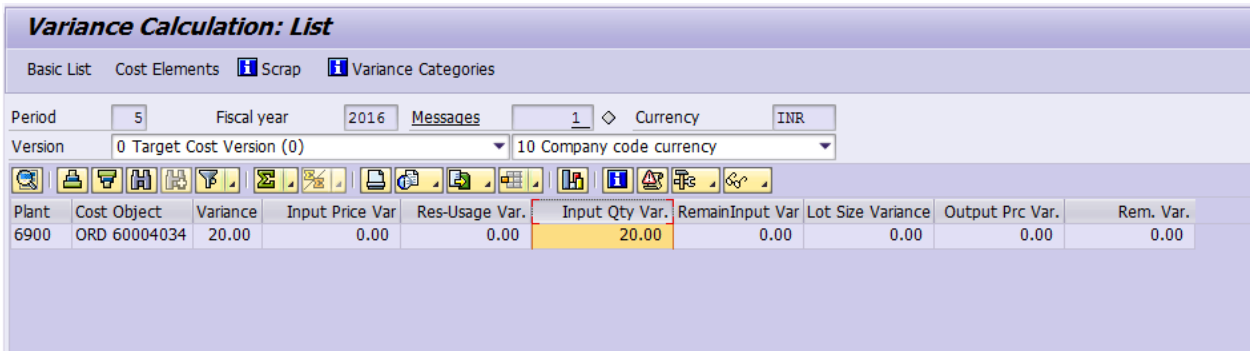
- Select the Material origin indicator in the costing view of the material master record.
- Select the Record quantity indicator in the cost element.

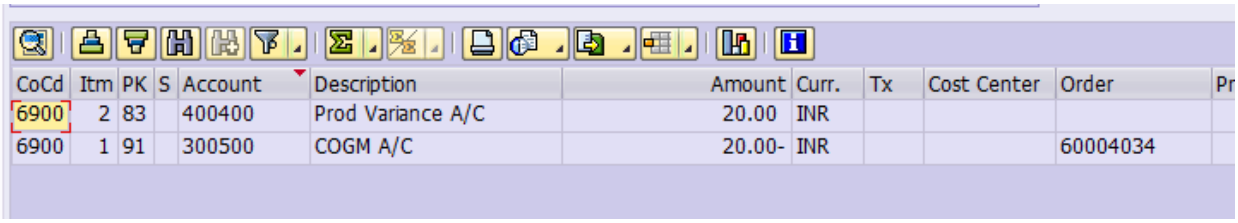


Standard Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	10	20
Labour	3	15	45
Total Standard Cost			75

Actual Cost			
Components	Qty/Hr	Rate	Amount
Material	3	10	30
Machine	2	10	20
Labour	3	15	45
Total Actual Cost			95

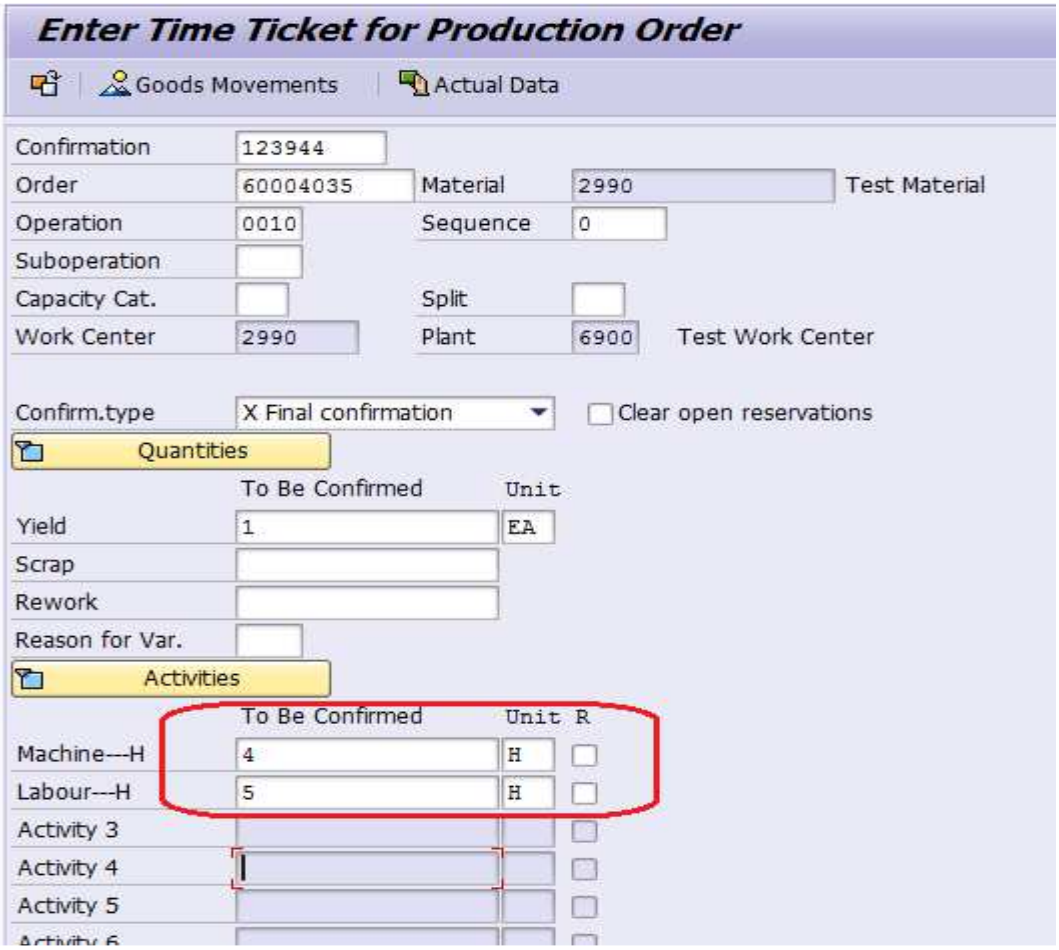






CoCd	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order	Pr
6900	2	83		400400	Prod Variance A/C	20.00	INR				
6900	1	91		300500	COGM A/C	20.00-	INR			60004034	

Activity Quantity Variance



Standard Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	10	20
Labour	3	15	45
Total Standard Cost			75

Actual Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	4	10	40
Labour	5	15	75
Total Actual Cost			125

Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 5 Fiscal year 2016 Messages 1 Currency INR

Version 0 Target Cost Version (0) 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
6900	ORD 60004035	75.00	125.00	75.00	0.00	0.00	50.00

Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 5 Fiscal year 2016 Messages 1 Currency INR

Version 0 Target Cost Version (0) 10 Company code currency

Plant	Cost Object	Variance	Input Price Var	Res-Usage Var.	Input Qty Var.	RemainInput Var	Lot Size Variance	Output Prc Var.	Rem. Var.
6900	ORD 60004035	50.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00

Settlement

FI entry

CoCd	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order	Pr
6900	2	83		400400	Prod Variance A/C	50.00	INR				
6900	1	91		300500	COGM A/C	50.00-	INR			60004035	

Resource-usage variances

Resource-usage variances are caused by the use of different materials and activities than were planned.

The system calculates resource-usage variances if:

- The target costs of a cost element, origin group, or origin are not zero while the actual costs of the same cost element, origin group, or origin are zero.
- The target costs of a cost element, origin group, or origin are zero but the actual costs of the same cost element, origin group, or origin are not zero.

Confirmation of Production Order Enter : Goods Movements

Order 60004036 Status: REL PRC MANC SETC

Material Number 2990 Test Material

Goods Movements Overview

Material	Quantity	U...	Plant	St...	Batch	Valuation ...	D...	M...	S..	Vendor
2990	1	EA	6900	6900			S	101		
2981		EA	6900	6900			H	261		
2977	1	EA	6900	6900			H	261		

Order 60004036 000000000000002990
Order Type PP01 Standard Production Order (int. number)
Plant 6900 6900-MFG PLANT
Material 2990 Test Material

Planned Quantity 1 EA Each
Actual Quantity 1 EA Each

Cumulative Data
Legal Valuation
Company Code Currency/Object Currency

Transaction	Origin	Origin (Text)	Total plan costs	Total actual costs	Plan/actual variance	P/A var(%)	Currency	Actual Qty
Goods Issues	6900/2977	Explosives	0.00	100.00	100.00		INR	1
	6900/2981	6900-RM-1	10.00	0.00	10.00-	100.00-	INR	0
Goods Issues			**10.00**	**100.00**	**90.00**		**INR**	
Confirmations	2990/MACH	TEST Cost Center / MACHI...	20.00	20.00	0.00		INR	2
	2990/LAB	TEST Cost Center / LABOUR	45.00	45.00	0.00		INR	3
Confirmations			**65.00**	**65.00**	**0.00**		**INR**	
Goods Receipt	6900/2990	Test Material	75.00-	75.00-	0.00		INR	1-
Goods Receipt			**75.00-**	**75.00-**	**0.00**		**INR**	
			0.00	**90.00**	**90.00**		**INR**	

Standard Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	10	20
Labour	3	15	45
Total Standard Cost			75

Actual Cost			
Components	Qty/Hr	Rate	Amount
Material (alternative)	1	100	100
Machine	2	10	20
Labour	3	15	45
Total Actual Cost			165

Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 5 Fiscal year 2016 Messages 1 Currency INR

Version 0 Target Cost Version (0) 10 Company code currency

Plant	Cost Object	Target Costs	Actual Costs	Allocated Actl	Work in Process	Scrap	Variance
6900	ORD 60004036	75.00	165.00	75.00	0.00	0.00	90.00

Variance Calculation: List

Basic List | Cost Elements | Scrap | Variance Categories

Period 5 Fiscal year 2016 Messages 1 Currency INR

Version 0 Target Cost Version (0) 10 Company code currency

Plant	Cost Object	Variance	Input Price Var	Res-Usage Var.	Input Qty Var.	RemainInput Var	Lot Size Variance	Output Prc Var.	Rem. Var.
6900	ORD 60004036	90.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00

- **Remaining input variances**

  The system calculates variances for each cost element on the input side. If the system cannot assign a variance on the input side to any of the above categories, it assigns the variance to the remaining input variance category. This can happen when costs are entered without a quantity, or when the overhead rates are changed.

Itemization for material 2990 in plant 6900

ItmNo	Ite...	Resource	Cost Element	Σ	Total Value	Σ	Fixed Value	Currncy	Quantity	Un
1	E	2990 2990 MACH	943000		20.00		20.00	INR	2	H
2		2990 2990 LAB	943001		45.00		45.00	INR	3	H
	E			▪	**65.00**	▪	**65.00**	**INR**		
4	G	MAT-OH 941000	941000		1.00		0.00	INR		
	G			▪	**1.00**	▪	**0.00**	**INR**		
3	M	6900 2981	400000		10.00		0.00	INR	1	EA
	M			▪	**10.00**	▪	**0.00**	**INR**		
				▪▪	**76.00**	▪▪	**65.00**	**INR**		

Standard Cost			
Components	Qty/Hr	Rate	Amount
Material	1	10	10
Machine	2	10	20
Labour	3	15	45
Over Head		0.1	1
Total Standard Cost			76

Variances on the Output Side

With the following types of variances the system will show variances on the output side.
Variances on the output side are variances that result from too little or too much of the planned order quantity being delivered, or because the delivered quantity was valuated differently.

- **Mixed-price variances**
  Mixed-price variances arise when the system valuates inventories using a mixed cost estimate for the material. A mixed-price variance is caused by a difference between the target credit (Confirmed Quantity × Standard Cost of Procurement Alternative) determined by variance calculation, and the actual credit that was posted when the goods were received (Confirmed Quantity × Standard Price). The standard price corresponds to the mixed price.
  If you have not selected the Mixed-price variance field in the variance variant, mixed-price variances are reported as output price variances.
- **Output price variances**
  Output price variances are reported in the following situations:
  - If the standard price has changed between the time point of delivery to stock and the time point when the variances are calculated
  - If the material's price control indicator is set to **V** and the material was not delivered to stock at the standard price
  - If the price used to valuate the inventory is not a mixed price

  Output price variances are caused by a difference between the target credit (such as Confirmed Quantity x Standard Price) determined by variance calculation, and the actual credit posted when the goods were received (such as Confirmed Quantity x Moving Price).
  You control which value is used for delivery to stock when the price control indicator is set to **V** in Customizing for Product Cost by Period or Product Cost by Order under Define Valuation of Goods Received for Order Delivery.

- **Remaining variances**

  Differences between the target costs and the allocated actual costs that cannot be assigned to any other variance category. For example, rounding differences are reported as remaining variances.

  Overhead applied to costs that do not vary with the lot size are also reported as remaining variances.

  Remaining variances are reported in the following situations:

  - When the system cannot calculate target costs, such as when no cost estimate for the material exists or because no goods receipt for the order has taken place in the Product Cost by Period component.
  - When no variance categories have been defined in the variance variant in Customizing for Cost Object Controlling.

If you do not select a variance category, the variances of that category are assigned to the category remaining variances. The scrap variances are an exception to this. Scrap variances that are not shown as such can flow into any other variance category on the input side.

Product Costing Scenarios Completed.