SAP E Books

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Content Highlights

This documents cover following complex concepts of SAP,

1. Material Valuation
2. Cost Center Accounting
3. Sub Contracting

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MATERIAL VALUATION

The concepts of material valuation can best be understood only with an understanding of the flow of transactions in SAP and the scheme of entries that go along with them. A sequential flow is given below wherein for every transaction, the accounting entries (that would be passed in FI) are highlighted and the simultaneous goings-on in CO are also depicted.

Typically a normal cycle of material movement would begin with Goods Receipt (GR) of the raw material, its issue (GI) to a production order of a component that uses the raw material, which would then be followed by a goods receipt of the finished component from the production order and finally the sale of the component. Further variations to the above-mentioned cycle, like issue of the component to a production order of another finished product (instead of a direct sale of the component) will also be dealt with.

(All material movements in SAP happen through what are called movement types, which determine the implication of the transaction on the stock and the entries that need to be passed apart from using them for reporting purposes. Further all the movements are viewed from the point of view of Stores – thus Goods receipt means receipt at the Stores and issue means Issue from the Stores)

Cycle 1

Transaction 1 : Goods receipt of RM1 against a Purchase order

The GR is made with movement type 101. Assuming that the value according to the PO is Rs.500/-, the following FI entry is passed –

RM1 Stock a/c	Dr	500	
To GR/IR clearing a/c	..		500

The credit is given to a liability account titled GR/IR (meaning Goods receipt/Invoice receipt) clearing account. This account is more in the nature of a provision account, which holds the liability for the purchase till it is transferred to the Supplier's account at the time of Invoice Verification (Bill passing). This being an implication only for the Balance Sheet and not the P&L, there is no entry in CO.

Transaction 2 : Goods issue of RM1 to a Production Order

Let us assume that there is a production order (say, no. 1002451) for the manufacture of Comp1 (a component which is made out of machining RM1). Now, the RM1 that has been purchased is issued to the Production Order generating the following entry. The movement type is 261 –

Consumption a/c	Dr	500	
To RM1 Stock a/c	..		500

Simultaneously, in CO the Production Order is debited to the extent of Rs.500. Figuratively, drawing up the costs in the Production Order as an account in T-shape, it would look as follows –

Dr Production Order 1002451 (for 1no of COMP1) Cr

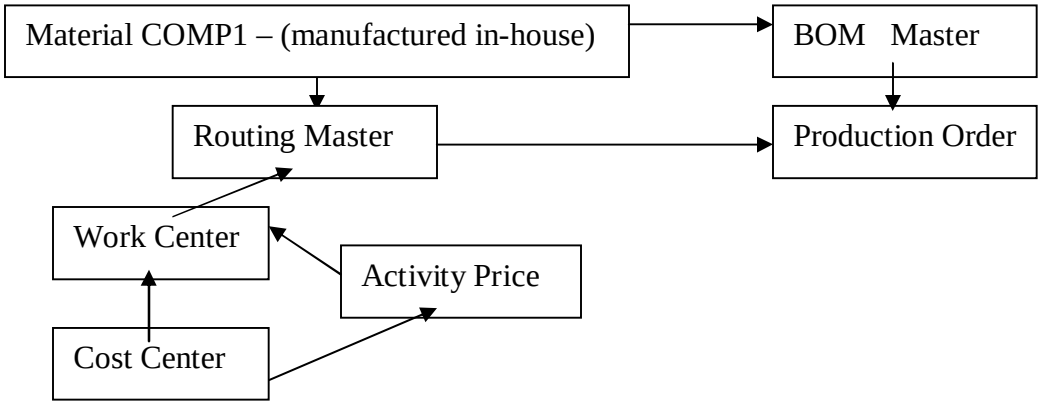
	Rs	!	Rs
		!	
Goods issue of RM1	500	!	
		!	
		!	

It may be relevant to note here that issue of materials to the Shop floor is recorded as consumption and not as WIP.

Transaction2A : Confirmations of Activities for the Production Order

As and when the various operations are completed, confirmations are entered against each activity in the Routing. A confirmation books the cost of the activity to the Production Order. There is no entry that is passed in FI. Hence, the entry that is passed in CO is only a notional booking of Cost. Basically this cost represents the absorption of cost from the concerned Cost Centers and hence the same is credited to the Cost Center. Let us briefly examine this concept of absorption of costs in SAP independently.

Every material that is produced in-house requires a Routing. A routing is a master wherein all the operations that are to be performed to obtain the end material are specified. For each operation, the Work center is also specified. A Work Center is yet another master in SAP which is identified as a machine or a group of machines. In the Work Center master, the Cost Center to which the Work Center belongs is also identified. The next relevant master is what is called the Activity price. An Activity Price is the link between the CO and PP. It converts the operation timings into costs. That is, we may define different Activity Prices for different kinds of operations like Setup, Machining and Labor. We may also define the Activities on the basis of the expenditure like Activity Price for Employee expenses, for Depreciation, etc.. Thus Activity Price is the link, which converts the timings in the operation into costs. Pictorially the links may be drawn up as follows :



In our Cycle, there is only one operation that needs to be performed – that activity is completed and hence the Production Order is confirmed. On confirmation the Production Order is immediately debited with the cost of the activity-

Dr Production Order 1002451 (for 1no of COMP1) Cr

	Rs		Rs
Goods issue of RM1	500		
Activity Cost (Confirmation of operations –1 hour)	50		

Transaction 3 : Goods Receipt of Comp1 from the Shop Floor

Now the Component has been produced and the finished component is handed over to the Stores from the Shop Floor. The movement type is again 101 which generates the following entry –

Comp1 Stock a/c	Dr	550	
To Cost of Goods manufactured a/c (COGM)	..		550

Here the credit is given to an account (P&L type)– which will always contain a credit balance. The credit in this account is what will set-off the debit to the P&L that occurred at the time of goods issue by way of a debit to Consumption.

Thus consumption is booked when raw materials are issued and reversed when the finished component is returned to stores.

In CO, the production order which already contains the debit for Goods issue of RM1 will now get a credit for the Goods receipt -

Dr Production Order 1002451 (for 1no of COMP1) Cr

	Rs		Rs
Goods issue of RM1	500	Goods receipt of Comp1	550
Activity Cost (Confirmation of operations –1 hour)	50		

Transaction 4 : Goods issue of Comp1 for sale

The movement type involved is 601 –

Cost of Sales (COS) a/c	Dr	550	
To Comp1 Stock a/c	..		550

In this case the debit to COS a/c will offset the COGM a/c. This will therefore in turn set-off the offsetting impact of the credit to COGM a/c that occurred at the time of GR.

That is to say that the debit to the P&L occurs when the material is issued (by way of consumption), it is nullified when the GR is made for the finished component and restored again when the component is sold.

The net debit to P&L account on account of Materials consumed would thus look as follows –

Dr P & L Account for the period ended ……. Cr

	Rs		Rs
Consumption a/c	500	COGM a/c	550
COS a/c	550		

The above would form the basic scheme of entries by which Material movements are accounted.

Supposing the period has ended, before the completion of Production Order, that is Transaction 3 has not happened before the end of the period, then the status of the P&L a/c (based on entries passed up to that stage) would be that it contains a debit (by way of consumption) to the extent of Rs.500/-. However it would not reflect the correct state of affairs, as the Goods Issue was only to the

Shop Floor and it remains there at the time of preparation of the P&L. This is nothing but Work-in-process (WIP). In SAP, a program is run to calculate WIP and accordingly entries are passed –

Transaction 2A : Work-in-process (WIP)

WIP in SAP is calculated in terms of the orders that are incomplete. Thus the WIP is stated Production Order wise. When the program is executed, the WIP is calculated for each order by taking the balance in the account as the value of WIP. Logically the debits represent the inputs into the Production Order and the credits the output. WIP in the business sense represents the net inputs given to the Shop floor and hence the total of debits minus the total of credits in the Production Order becomes the WIP value. The following entry is passed in FI to record the same –

WIP a/c	Dr	500	
To Increase / Decrease in WIP a/c	..		500

Whereas WIP a/c is an inventory account, "Increase/Decrease in WIP" is a P&L account which will set-off the debit to P&L by way of Consumption.

The P&L would look as follows :

Dr P & L Account for the period ended ……. Cr

	Rs		Rs
Consumption a/c	500	Increase / Decrease in WIP a/c	500

When the component is finished and a GR is made for the same in the subsequent period, this entry is reversed and the consumption is then restored.

Valuation :

In the flow given above, the focus was on the scheme of entries and not on the values that were mentioned. Let us now turn our attention to the valuation of the materials.

Transaction 1 : Goods receipt of RM1 against a Purchase order

Here the values flow from the Purchase Order. In the purchase order, each item has a pricing structure with a detailed break-up of the price into Basic, P&F, ED, ST, etc. which are called condition types. In customizing, the rules for each Condition type are mentioned, eg., Condition type ED, would be marked as deductible tax for Inventory valuation. Thus at the time of GR, the sum total of all the condition types that are identified as "to be inventorised" are debited to inventory. In our example we have assumed that this sum-total is Rs.500/-.

Transaction 2 : Goods issue of RM1 to a Production Order

The GI takes place at the Moving weighted average of the material at the time of issue. This Moving average Price is a dynamic one and is determined at the time of every transaction. The basis of valuing all purchased materials is the Moving Average price.

Transaction 2A : Work-in-process (WIP)

The valuation of WIP as mentioned above will be done Production Order-wise and will be the net of debits over credits in each order.

Transaction 3 : Goods Receipt of Comp1 from the Shop Floor

In the case of manufactured items, SAP uses a method of preliminary valuation for all transactions of the material. That is, a preliminary value is fixed for a material for a period. All the transactions of the material during that period are done at that rate. This preliminary value is called the *Standard Cost Estimate (SCE).*

The Standard Cost Estimate is arrived at, at the beginning of every month based on a roll-up of the cost of the materials in the Bill of Material and the activities in the Routing. The cost of the lower level materials in turn, depends on their Procurement type, ie.. if they are purchased items, then it takes the moving average of the material at the time of calculation of the SCE and if the lower level item itself is a manufactured item, then it takes the SCE of that item which would have been calculated in the same process. Thus the SCE of an item would be the roll-up of the BOM and Routing of the material exploded to its lowest level (that of purchased materials).

Transaction 4 : Goods issue of Comp1 for sale

Here again, the transaction being that of a manufactured component, the rate would be the SCE of the material for the month.

Now, let us go through the whole cycle again with small variations in the values of each transaction –

Suppose that for the month of October, the SCE of Comp1 is calculated and released. The SCE would be a roll-up of the cost of all the materials in the BOM of Comp1 and the activities in the routing. Here the BOM of Comp1 contains RM1 (1 no) and the routing contains one hour of Activity.. Let us also further suppose that the Moving Average of RM1 is Rs.500 and the rate per hour for the activity is Rs.50 at the time of calculation of the SCE of Comp1. Hence the SCE of Comp1 would also be Rs.550.

Put in a table form this is the status of the materials at the beginning of October –

Material	Qty	Value	MAP	SCE
RM1	0	0	500	0
COMP1	0	0	0	550

Cycle 2

Transaction 1 : Goods receipt of RM1 against a Purchase order

This time the price of RM1 has increased and the value according to the Purchase Order comes to Rs.600/-. The movement type would be 101 and the entry –

RM1 Stock a/c	Dr	600	
To GR/IR clearing a/c	..		600

The moving weighted average of RM1 now becomes Rs.600/-.

Transaction 2 : Goods issue of RM1 to a Production Order

Let us assume that the issue is to Production Order 1002451. The following entry is passed for Movement type 261 –

Consumption a/c	Dr	600	
To RM1 Stock a/c	..		600

In CO the Production order is debited to the same extent –

Dr Production Order 1002451 (for 1no of COMP1) Cr

	Rs	!	Rs
		!	
Goods issue of RM1	600	!	
		!	

Transaction 3 : Goods Receipt of Comp1 from the Shop Floor

For the GR (101 movement type) of Comp1 from the Production Order, the FI entry is,

Comp1 Stock a/c	Dr	550	
To Cost of Goods manufactured a/c (COGM)	..		550

and in CO, before the Goods Receipt, the activities would have been confirmed, hence the Activity Cost also gets booked to the Production Order -

Dr Production Order 1002451 (for 1no of COMP1) Cr

	Rs		Rs
Goods issue of RM1	600	Goods receipt of Comp1	550
Activity Cost (Confirmation of operations –1 house)	50		

Transaction 4 : Goods issue of Comp1 for sale

The valuation again is only the SCE. Movement type - 601 generates the following entry -

Cost of Sales (COS) a/c	Dr	550	
To Comp1 Stock a/c	..		550

Transaction 5 : Calculation of Variance

Though all transactions are completed, the Production Order still has a balance of Rs.100. However this amount cannot be called WIP since the Production Order is completed. This represents Variance in the order, which has arisen as a result of variation in the price of the Raw Material at the time of issue as compared to that at the time of calculation of the SCE of Comp1. Similarly, the variance may also arise out of other reasons such as issue of greater quantity of RM1 than that specified in the BOM, issue of alternate materials, etc..

The variance, like WIP is calculated and maintained Production Order-wise and the formula for valuation also is the same, namely, the balance in the account, which is nothing but the difference between the total debits and the total credits in each Production Order. Given that variance and WIP are calculated based on the same formula, it is understood that a Production Order can either be in WIP or have Variance. The entry that is passed for variance is -

Production Variance a/c	Dr	100	
To Cost of Goods manufactured a/c	..		100

It may be noted that both the accounts in this entry are P&L accounts, meaning that this entry has no impact on the P&L. This (the zero impact of variance entry on P&L) may also be logically explained. The consumption is booked at the time of issue of the Raw materials itself and therefore the full impact of consumption occurs at that time. The subsequent credit through COGM is set-off by COS, thereby resulting in a total debit to the P&L of the actual consumption. The variance entry results in no more than a restatement of the COGM a/c.

A view of the P&L account, at this stage may be relevant –

Dr P & L Account for the period ended ……. Cr

	Rs		Rs
Consumption a/c	600	COGM a/c	
COS a/c	550	at the time of GR	550

Variance a/c 100 ! at the time of Variance calc.
100
!
_____!
_____
1250 !
650
====== !
======
Net impact on P&L 600!
!

Having seen the flow of the entries and the values, let us assume that the period has ended without the sale of Comp1. That is, the issue of RM1 has taken place, and the finished Comp1 has been inwarded in Stores through a GR, all with the same values as in Cycle 2 above. However the Comp1 has not been sold and therefore the entry in Transaction 4 has not been passed. Variance has however been calculated and the entry passed. .According to the entries passed in SAP, the P&L would look as follows -

Dr P & L Account for the period ended .....
Cr
Rs ! Rs
!
Consumption a/c 600 ! COGM a/c
! GR
550
Variance a/c 100! Variance calc.
100
_____!
_____
700 !
650
====== !
======
Net impact on P&L 50 !

This impact of Rs.50/-(debit) has essentially arisen out of a lower valuation of stock (of Comp1) in hand. Comp1 has been valued at the Standard Price of Rs.550/- whereas the actual cost of materials incurred to produce it is Rs.650/-. It may be a business decision to value the finished components at the SCE and treat the variance as a period expense writing it off to P&L in the period in which it is incurred. However where the decision is to value the manufactured materials at the actual cost, that is, carry the variance in the value of inventory till it is sold, the above P&L a/c would not satisfy the requirement. To achieve that, another process, called Actual Costing, is executed in order to revalue the closing Stock at actual cost. In this process, the variances are brought back into the value of inventory to the extent stock is available. The variances in various production orders are cumulated and the average variance per quantity is arrived at. This average is applied to the closing stock available.

Typically the Material Ledger would look like this -

Category	Quantity	Preliminary Valuation	Price Difference	Price
Opening Stock	0	0	0	550
Receipts -				
From Production				
Order 1002451	1	550	0	550
Variance Settlement			100	650
Cumulative inventory	1	550	100	650
Consumption	0	0	0	0
Closing Stock	1	550	100	650

The Cumulative variance is proportionately adjusted to the Closing Stock.

The amount of Variance adjusted to the Closing stock is effected through the following entry:

COMP Stock a/c	Dr	100	
To Production Variance a/c	..		100

Let us assume that there is a BOM structure as follows:

FG
└▶ COMP
  └▶ RM

As discussed already, the Standard Cost Estimate is determined for each of these materials and released at the beginning of the month.

Suppose that we calculate the Standard Cost Estimate (SCE) for the month of November. Now, the SCE is calculated essentially for manufactured materials – hence, for FG and COMP, we have the SCE determined as follows:

COMP – RM Cost of Rs.500 + Activity Cost for 1 hour @ Rs50/- per hour = Rs.550/-

FG - COMP Cost of Rs.550 + Activity Cost for 0.5 hours @ Rs50 per hour = Rs.575/-

It may be observed that the Total Cost of COMP can be split also as Material Cost of Rs500 and Activity Cost of Rs.50, and that of FG can be split as Material Cost of Rs500 and Activity Cost of Rs75 (Obviously this Activity Cost includes the activity cost incurred on the lower level component also). The fundamental assumption is that the Moving average of RM is Rs.500/- at the time of calculating these Standard Costs.

We will now go through a simple cycle of producing 5 COMPs in a single Production Order and 3 FGs in another Production Order and ultimately selling 2 FGs so that at the end of the cycle, we have 2 COMPs and 1 FG in stock:

Transaction 1: Goods Receipt of RM from supplier

The price of RM1 has increased and the value according to the Purchase Order comes to Rs.600/-. The movement type would be 101 and the entry for the 5 nos purchased will be -

RM1 Stock a/c	Dr	3000	
To GR/IR clearing a/c	..		3000

The moving weighted average of RM1 now becomes Rs.600/-.

Transaction 2 : Goods issue of RM1 to a Production Order

Let us assume that the issue is to Production Order 1002451. The following entry is passed for Movement type 261 –

Consumption a/c	Dr	3000	
To RM1 Stock a/c	..	3000	

In CO the Production order is debited to the same extent –

Dr Production Order 1002451 (for 5nos of COMP) Cr

	Rs		Rs
Goods issue of RM	3000		

Transaction2A : Confirmations of Activities for the Production Order

Dr Production Order 1002451 (for 5nos of COMP) Cr

	Rs		Rs
Goods issue of RM	3000		
Activity Cost (Confirmation of operations –1 hour for each COMP)	250		

Transaction 3 : Goods Receipt of Comp from the Shop Floor

Now the Component has been produced and the finished component is handed over to the Stores from the Shop Floor. The movement type is again 101and the value is the Standard Cost Estimate which generates the following entry -

Comp Stock a/c	Dr	2750	
To Cost of Goods manufactured a/c (COGM)	..		2750

Dr Production Order 1002451 (for 5nos of COMP) Cr

	Rs		Rs
Goods issue of RM	3000	COGM – 5 nos of COMP	2750
Activity Cost (Confirmation of operations –1 hour for each COMP)	250		

Now, transaction 2 is repeated when we issue 3 nos of COMP towards the Production Order of FG. Let us say, the Production Order No is 1002546.

Transaction 2 : Goods issue of RM1 to a Production Order

The value of the Goods issue is the Std Cost Estimate of COMP. The following entry is passed for Movement type 261 –

Consumption a/c		Dr	1650
To RM1 Stock a/c	..		1650

In CO the Production order is debited to the same extent –

Dr Production Order 1002546 (for 3nos of FG) Cr

	Rs		Rs
Goods issue of COMP	1650		

Transaction2A : Confirmations of Activities for the Production Order

Dr Production Order 1002546 (for 3nos of FG) Cr

	Rs		Rs
Goods issue of RM	1650		
Activity Cost (Confirmation of operations –0.5hour for each FG)	75		

Transaction 3 : Goods Receipt of FG from the Shop Floor

Now the Component has been produced and the finished component is handed over to the Stores from the Shop Floor. The movement type is again 101and the value is the Standard Cost Estimate which generates the following entry -

FG Stock a/c		Dr	1725	(575*3)
To Cost of Goods manufactured a/c (COGM)	..		1725	

Dr Production Order 1002546 (for 3nos of FG) Cr

	Rs		Rs
Goods issue of COMP	1650	COGM – 3 nos of FG	1725
Activity Cost (Confirmation of operations –0.5 hour for each FG)	75		

Transaction 4 : Goods issue of FG for sale

The valuation again is only the SCE. Movement type - 601 for 2 nos of FG generates the following entry -

Cost of Sales (COS) a/c	Dr	1150	
To FG Stock a/c	..		1150

Transaction 5 : Calculation of Variance

The Variance, as we have already seen, is based on the net of the Debits and credits in the Production Order. In our example above, we have two Production Orders 1002451 and 1002546. When we calculate the difference between the debits and credits, we observe that only the Production Order 1002451, ie. the one for COMP, contains variance, whereas in the other Production Order, it is nil. The Entry for that Variance is passed as follows:

Production Variance a/c (Order 1002451)	Dr	500	
To Cost of Goods manufactured a/c	..		500

The last and most important activity in our process is the Actual Costing. The Material Ledger would look as follows:

Material Ledger for COMP :

Category	Quantity	Preliminary Valuation	Price Difference	Price
Opening Stock	0	0	0	550
Receipts -				
From Production				
Order 1002451	5	2750	0	550
Variance Settlement from Order 1002451			500	650
Cumulative inventory	5	2750	500	650
Consumption -	0	0	0	0
For Production				
Material FG	3	1650	300	
Closing Stock	2	1100	200	650

Material Ledger for FG:

Category	Quantity	Preliminary Valuation	Price Difference	Price
Opening Stock	0	0	0	575
Receipts -				
From Production				
Order 1002546	3	1725	0	575
Variance seetlement from Lower Level Items			300	675
Variance Settlement from Order 1002546				
Cumulative inventory	3	1725	300	675
Not Included			200	
Consumption -	0	0	0	0
For Sale				
Material FG	2	1150		
Closing Stock	1	1150	100	675

The important points to note are:

- Variance is cumulated and apportioned to the Closing inventory.
- The apportioning happens not only to the Closing inventory but also to the issue of that material for Production
- This value, which is apportioned to the Goods Issue is carried forward to the higher level materials which use this material as variance from lower level item.
- When the consumption is that of Sale, then the proportionate variance is ignored and a Line titled "Not included" is created for that amount

The entries passed on account of Actual Costing in the above example are :

COMP Stock a/c	Dr	200	
FG Stock a/c	Dr	100	
To Production Variance a/c	..		300

Now the Profit and Loss Account would look as follows:

Dr P & L Account for the period ended ……. Cr

		Rs		Rs
Consumption of RM		3000	COGM a/c	
Consumption of COMP		1650	GR of COMP	2750
Variance a/c			GR of FG.	1725
From Ord 1002451	500		Variance calc.	500
From Actual Costing	300	200		
Cost of Sales – FG		1150		
		6100		4975
Net impact on P&L		1075		

Forgetting the Accounting entries passed above, the impact on P&L on account of Material Valuation can be independently validated as follows:

Total no of items sold	=	2 nos of FG
Usage of Raw Material		
in those two nos	=	2 nos of RM
Cost of the Raw Material used	=	Rs.600/- per piece for two items = Rs.1,200/-
Activity Cost in Closing Stock		
of COMP =		Rs.50/- per piece for two items = Rs.100/-
of FG	=	Rs.25/- per piece for one item = Rs. 25/-

Net impact on P&L on account of Material Valuation:

		Rs.
Material Cost	=	1,200
Impact of AS2	=	- 125
Net impact	=	1,075

Cost Center Accounting

Cost Centers are the lowest organisational element in Controlling. Costs are planned, collected, analysed & monitored at this level. Every expense needs to be identified with a Cost Center. Typically the Cost Centers are identified as areas where a single person holds responsibility for the expenses. The list of Cost Centers for each Company is annexed in Annexure1.

Costs captured in a Cost Center - planned or actual, may be allocated to other Cost Centers as a subsequent activity. This may be required to be done for various reasons, the main among them being the requirement of bringing all manufacturing costs within Production Cost Centers (so as to capture *Activity Cost*). Another requirement may be that, the common costs of two divisions be distributed between them in the proportion of Sales (eg. FXSL).

Allocation of Costs:

Before considering an example, it may be noted that each cell will be classified as a Cost Center. However, there are other Cost Centers as well like, Electical, Purchases, Stores, etc. which also fall within the category of Manufacturing Cost Centers but are not Production Cost Centers. In order that these costs are included in the valuation of inventory, they need to be identified with the Production Cost Centers (the Cells) from where the Activity Costs may be determined. This identification or allocation may be done in two ways :

Assessment : The total Cost of the Cost Center may be transferred to others as such or ;

Distribution : The individual expenses may be transferred retaining their nature.

Example :

Cost Center – Stores

Expenses	*Planned Costs (Rs)*
Salaries	20,000
Depreciation	50,000
Total planned Cost for April 2001	70,000

Cost Center – Electrical Department

Expenses	*Planned Costs (Rs)*
Salaries	15,000
Depreciation	60,000
Electricity	3.00,000
Total planned Cost for April 2001	3,75,000

Cost Center – Cell 1

Expenses	*Planned Costs (Rs)*
Salaries	20,000
Depreciation	50,000
Tools & Factory Supplies	30,000
Maintenance	20,000
Total planned Cost for April 2001	1,20,000

Cost Center – Cell 2

Expenses	*Planned Costs (Rs)*
Salaries	30,000
Depreciation	1,00,000
Tools & Factory Supplies	60,000
Maintenance	30,000
Total planned Cost for April 2001	2,20,000

Supposing, it is desired that the cost of the non Production Cost Centers are allocated to the Production Cost Centers in the following proportions :

Stores

Expenses	Cell 1	Cell 2
All expenses	1	1

Electrical Department

Expenses	Cell 1	Cell 2
Electricity	1	2
Other Expenses	2	3

If it is also desired that among all the expenses to be transferred from these two cells, the Electricity expense is to be carried in its original Cost Element, (ie.. as Electricity as such) in the Production Cost Centers, then it will have to be *distributed.* On the other hand, if the other costs may be carried totally and not in their individual elements, then they will have to be *assessed.*

The Distribution and Assessment cycles would have to be drawn up accordingly and executed and the allocated cost would look as follows :

Cost Center – Cell 1

Thro' Distributi

Thro' Assessme

Expenses	*Planned Costs (Rs)*	Allocation (Rs)	Total (Rs)
Salaries	20,000		20,000
Depreciation	50,000		50,000
Tools & Factory Supplies	30,000		30,000
Maintenance	20,000		20,000
Electricity [3,00,000*1/3]		1,00,000	1,00,000
Allocated Costs from Stores [70,000*1/2]		35,000	35,000
Allocated Costs from Elec Dept [(3,75,000-3,00,000)*2/5]		30,000	30,000
Total planned Cost for April 2001	1,20,000	1,65,000	2,85,000

Cost Center – Cell 2

Thro' Distributi

Thro' Assessme

Expenses	*Planned Costs (Rs)*	Allocation (Rs)	Total (Rs)
Salaries	30,000		30,000
Depreciation	1,00,000		1,00,000
Tools & Factory Supplies	60,000		60,000
Maintenance	30,000		30,000
Electricity		2,00,000	2,00,000
Allocated Costs from Stores		35,000	35,000
Allocated Costs from Elec Dept		45,000	45,000
Total planned Cost for April 2001	2,20,000	2.80.000	5,00,000

SUB-CONTRACT PROCEDURE

Synopsis of the Sub-Contract Procedure :

- *Sub-Contract in SAP is of two types – Planned and Unplanned.*
- *In the case of planned sub-contracting, a Purchase Order is raised for the finished component and its BOM is copied on to the Purchase Order. Materials are transferred to the Vendor based on this BOM in the Purchase Order. At the time of Goods receipt of the finished Component, the Raw materials as per the BOM in the PO are charged off to consumption.*
- *When materials are not defined as "sub-contracted", then the requirement of sub-contracting comes only for a particular operation(s) and that too in the process of manufacturing in-house.*
- *In such cases the raw materials have already been issued to the Production Order and the requirement for sub-contracting arises half-way-through.*
- *For this purpose a Sub-Contract Purchase Order is created for the Raw material that is actually going to be sent to the sub-contractor. This Purchase Order shall also be assigned to the Production Order from which the Raw Material is going to be sent.* (Refer Page 3)

- *The print-out of the Purchase Order shall contain the details of the Production Order from which the materials are to be withdrawn from the Shop-floor. A copy of the Purchase Order shall be handed over to the Stores Department for making the necessary Material movements*
- *On receipt of the Purchase Order, the Stores department shall first make a reversal of the Goods Issue to the Production Order of the Raw Materials that need to be sent to the Vendor for Sub-contracting.*
- *Then the transfer posting of the material to the sub-contractor shall be made. In this transaction the Stores shall post the document with reference to the Purchase Order and shall make movements only to the extent proposed automatically from the Purchase Order. If a different quantity is to be sent, then the Purchase Order will have to be amended suitably and then movement to the sub-contractor posted. (*Refer Page 6*)*
  It is necessary to maintain this discipline in order to ensure correct booking of the consumption of the Raw Material at the time of the Goods Receipt of the finished Component. If the quantity posted to the vendor is different from the quantity proposed from the PO, then the consumption entry passed will also be different from the actual quantity resulting in excess or shortage in stocks with the sub-contractor. Moreover it may not be possible to complete the Excise Challan also.
- *The Sub-Contract challan is immediately created, printed and sent along with the material. It may be noted that there is no clear method of capturing the weight of materials sent and received to and from the sub-contractor. As a work-around, the weight shall be entered in two "Additional Value" fields in the Challan, one for the sent weight and the other for the received weight. (*Refer Page 7*)*
- *On receipt of the materials from the sub-contractor, the materials along with the Challan are first sent to the QC Department. The QC shall stamp on the Challan itself, the results of their testing and the Usage Decision.The Goods Receipt is made only for the quantity okayed by the QC. In the case of rejections, a separate procedure is detailed below on* Page 14*. The Goods Receipt is posted against the GR like any other Goods receipt. While making the GR, there is first a popup for details of the Excise Invoice to be given. In this popup, the details of the Sub-Contract Challan are to be keyed in so that there is a link between the return of the materials and the Challan. It thus becomes imperative that the Challan will have to accompany the materials when they come back. (*Refer Page 9*)*
- *Immediately after the posting of the Challan, the Stores will have to key in the details of the weight of the materials received into the Challan. If the materials have been fully received, the Stores department will do what is referred to as "Quantity reconciliation" and a copy of the challan will be sent to the Accounts Department for further activities on completing the Excise formalities. (*Refer Page 11*)*
- *On receipt of the completed challans, the Accounts Department shall "Complete" the challan.*
  *(*Refer Page 13*).*

Periodically, reports may be run to review the stocks with sub-contractors, challans pending, scrap calculation for debiting duty thereon, etc. Most of these will have to be developed as Queries and the Annexure IV Register will have to be developed as an ABAP program.

Essentially Subcontracting is identified as of two types in SAP – Planned and un-planned. Any material that is identified as a sub-contracted item in the Material Master (Procurement type "F" and Special proc. Type "30) will go for Planned sub-contracting. It will have the following characteristics :

- a defined Bill of Material (BOM) and may be sub-contracted for Stock.
- the material that results from sub-contracting has a Material code different from the Raw Material that is sent to the sub-contractor.

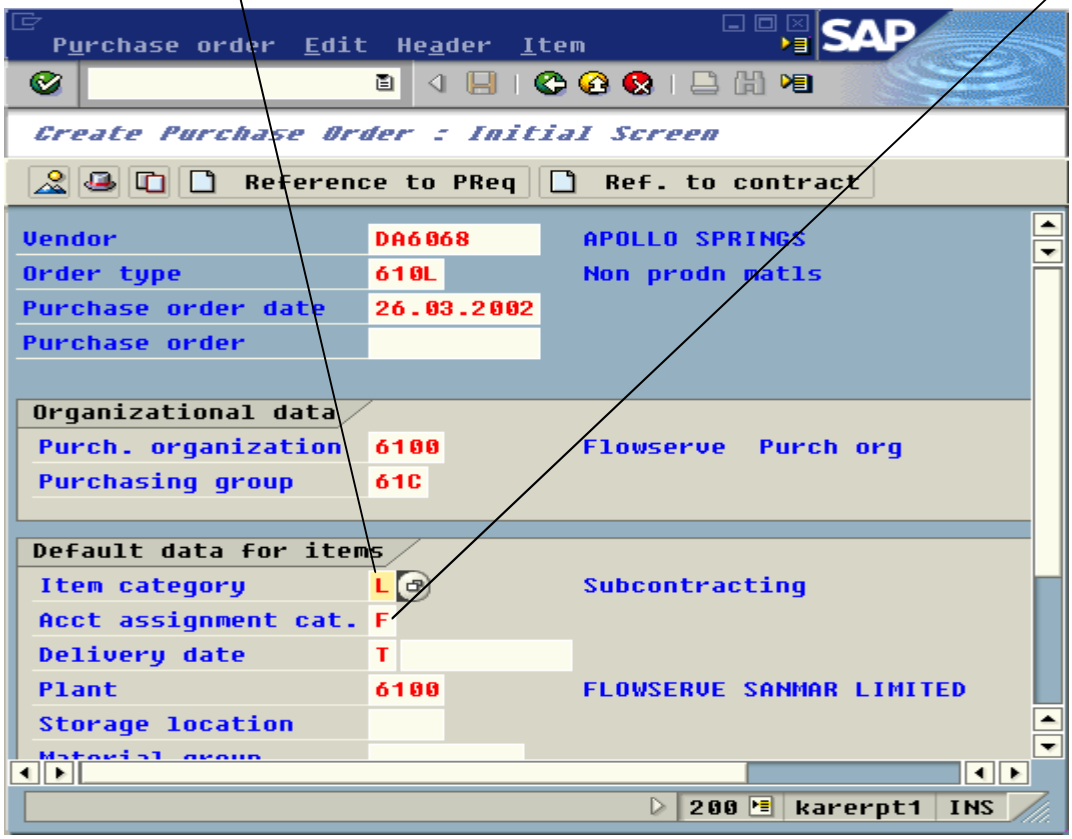
All other materials that do not have both the above characteristics will have to go for unplanned sub-contracting, ie..

- There is no defined Bill of Material
- The requirement for sub-contracting is only for an operation in a whole process of manufacturing thereby resulting in no separate material code for the sub-contracted item.

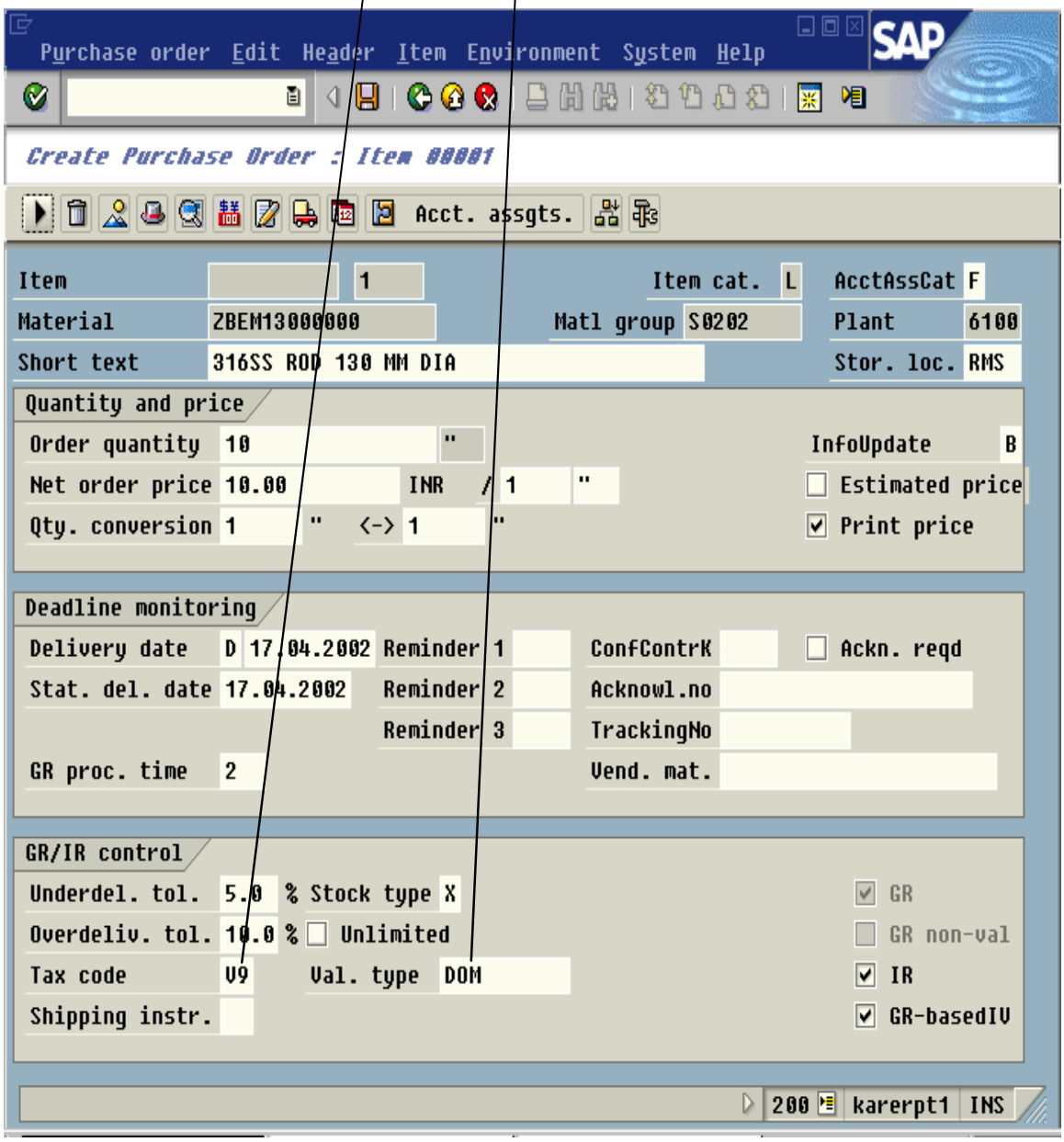
Creating the Purchase Order

In the case of Planned sub-Contracting the Purchase Order is created though the MRP route ie.. a Purchase requisition is created based on the demand elements and it is consequently converted into a Purchase Order.

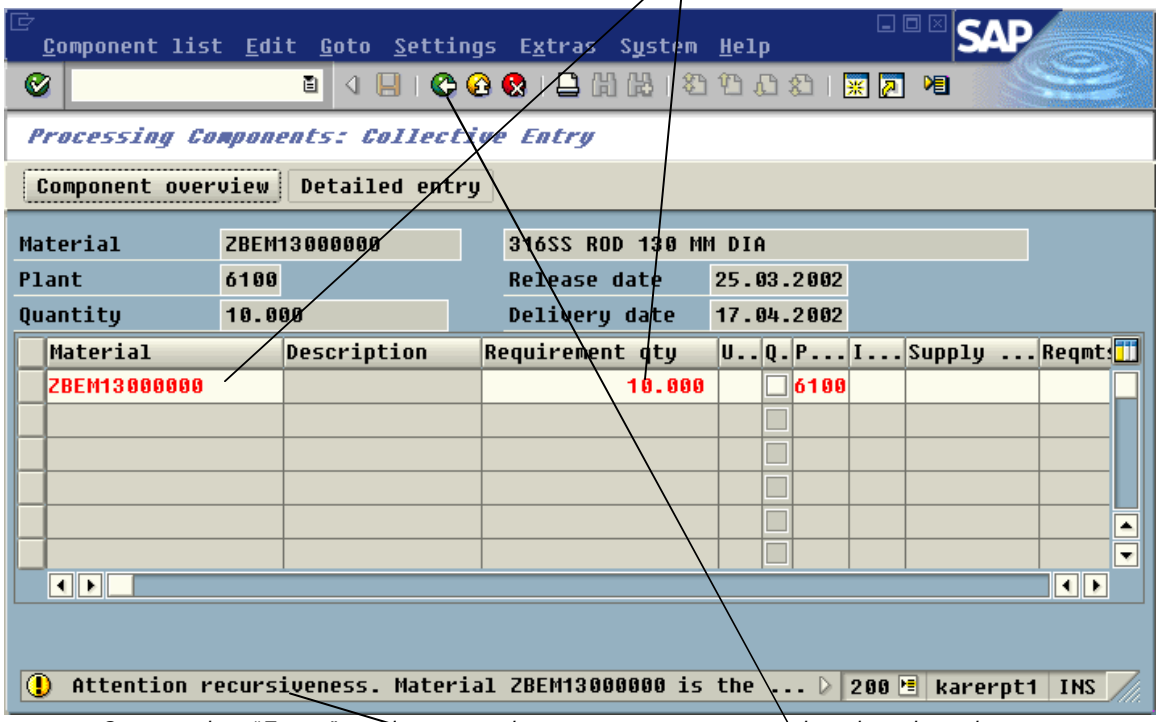
In the case of sub-contracting to be done in the course of activities of a Production Order ie.. a Production Order is created, the raw materials are issued and after completion of a few operations, the raw material is to be sent to a sub-contractor for one or more operations. In this case a manual Purchase Order is raised (by the Purchase Document type used for Indirect Materials). This Purchase Order shall have the Item Category as "L" indicating that it is a Sub-contracting Purchase Order and Account assignment as "F" indicating that the Purchase Order is assigned to a Production Order.



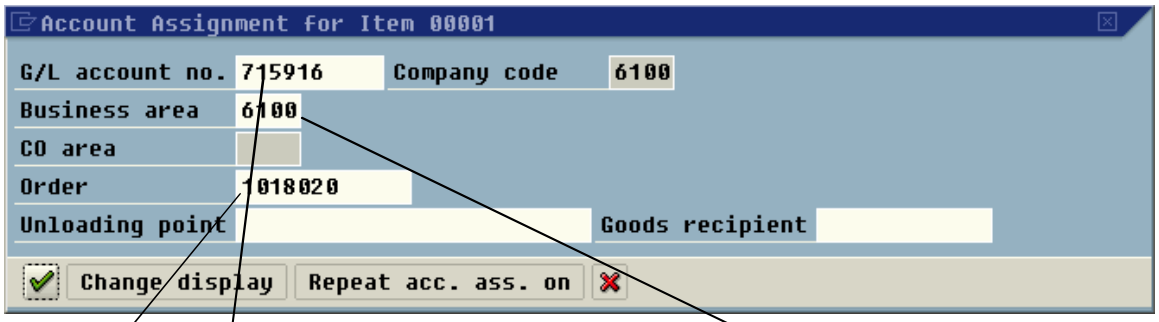
In the overview screen of the Purchase Order, the Material Code will have to be typed along with the quantity. It may be noted here that Info-records will have to be maintained for these materials for sub-contracting and the price will get picked automatically from there. The material code that is typed will normally be the Raw material that is going to be sent and got back after some operation. On pressing "Enter" key, the details screen opens up and the Valuation type which is a mandatory field for all Purchase Orders will have to be typed as DOM always. If "DOM is not available, then the same will have to be created (the Accounts Department may be approached for this). The tax code autmatically flows from the Info-record and it shall always be "V9".



On pressing the "Enter" key again the Components overview screen opens up. This is nothing but the list of all the raw materials that need to be sent to the sub-contractor. In our example of Unplanned Sub-contracting, the same material that was typed as the Purchase Order Item will have to be typed here again with the same quantity. Please note that at the time of Goods receipt, only the material that was specified in the main PO screen will be inwarded. The list of materials and the quantities that are given in the Components Overview screen are the only ones that will be sent to the sub-contractor by Stores.



On pressing "Enter" again, a warning message occurs, saying that there is a "Recursiveness". This means that the system has sensed that the material that is going out is the same as the material that is coming in as well. Type "Enter" again to ignore the message and press the "Back" icon. Immediately a small dialog box opens up and asks for the GL Account and Order Number.

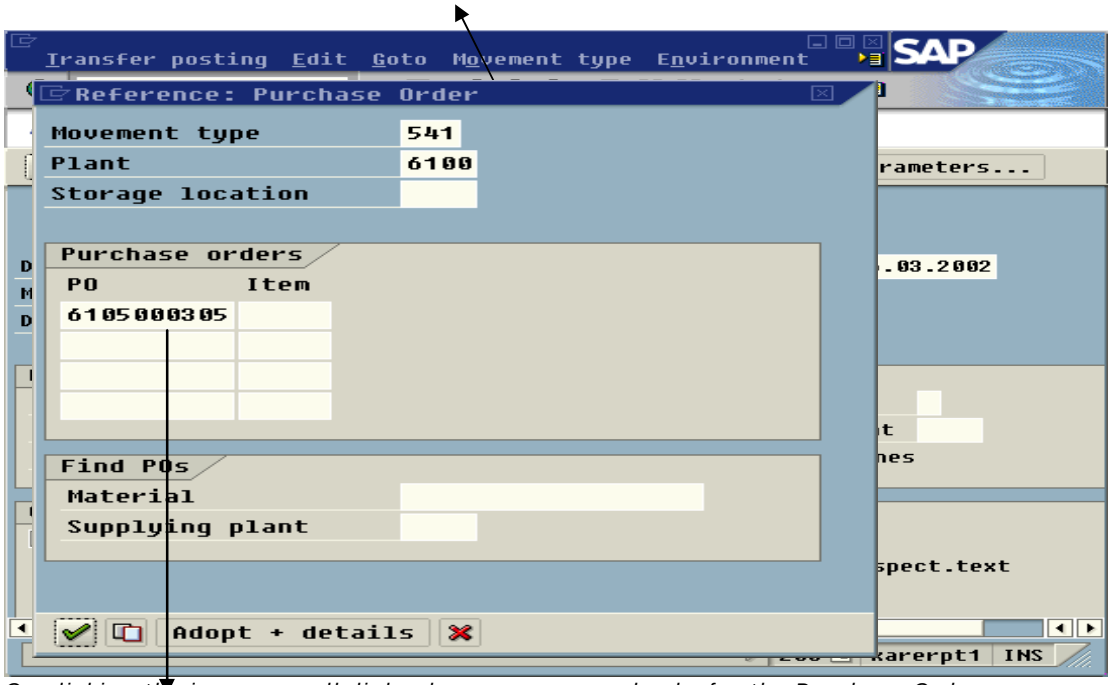


The GL Account will have to be typed as "715916", the respective Business Area and the Production Order will have to be typed in the field called "Order". On pressing enter again, it comes back to the Main "Item Overview" screen. Save the Purchase Order. On being further released (based on the Release Procedure) the Purchase Order can be used for Goods movement.

A Print-out of the Purchase Order is taken – and the Account Assignment (Production Order no) will also be printed alongside each item.

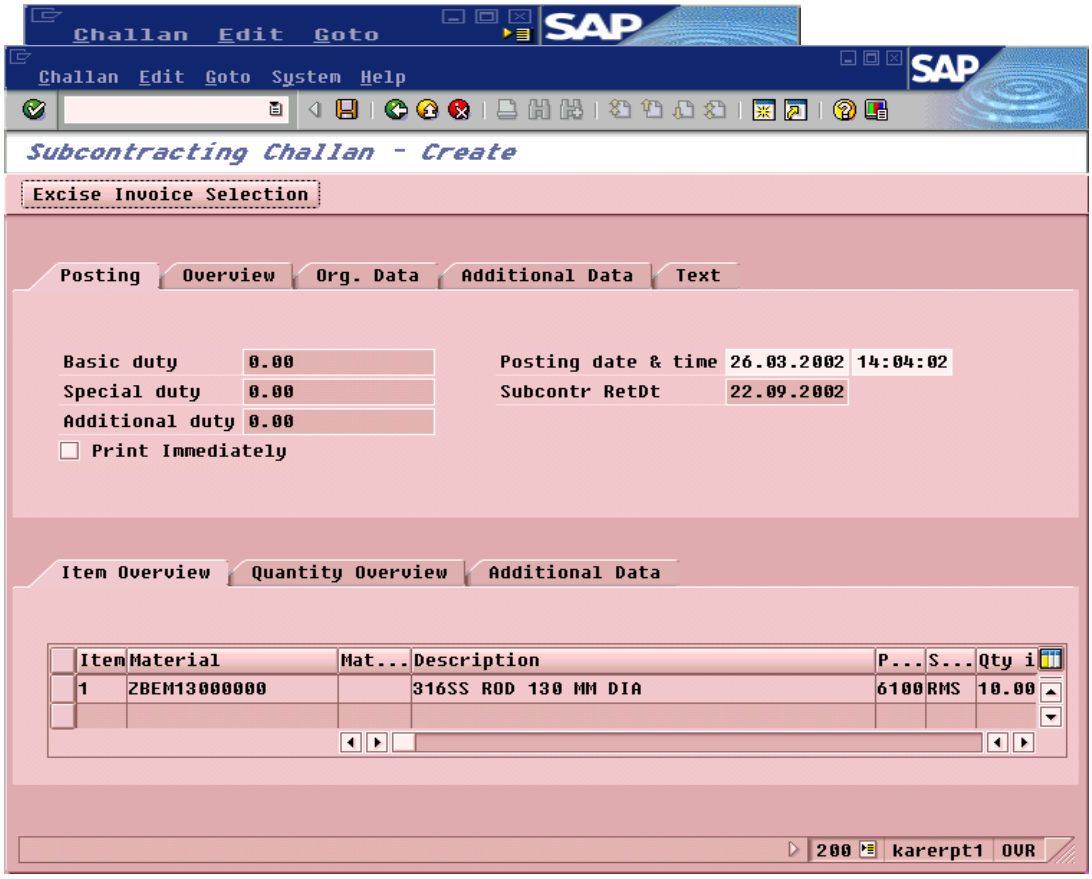
Movement of Materials

The first movement is that of movement to the Sub-contractor. Movement to Sub-contractor is only a transfer posting in SAP. Hence, transaction MB1B is to be used. Type the Movement type as "541" and then press the icon titled "To Purchase Order".



On clicking the icon, a small dialog box opens up and asks for the Purchase Order Type the Purchase Order number and continue by pressing "Enter". The system will automatically propose the items specified in the Components Overview of the Purchase Order (Refer Page 3). Select the items and do not change the quantities. If the quantity that is to be sent is different from the proposed quantities, then the same will have to be first modified in the Purchase Order and then MB1B will have to be done again. Select the items just in the way the Goods Issue for a Production order is done and save the Document. It may be noted that if the material is to be taken out from a Production Order, then the original document for the issue of the materials to the Production Order should be reversed by Movement type MBST.

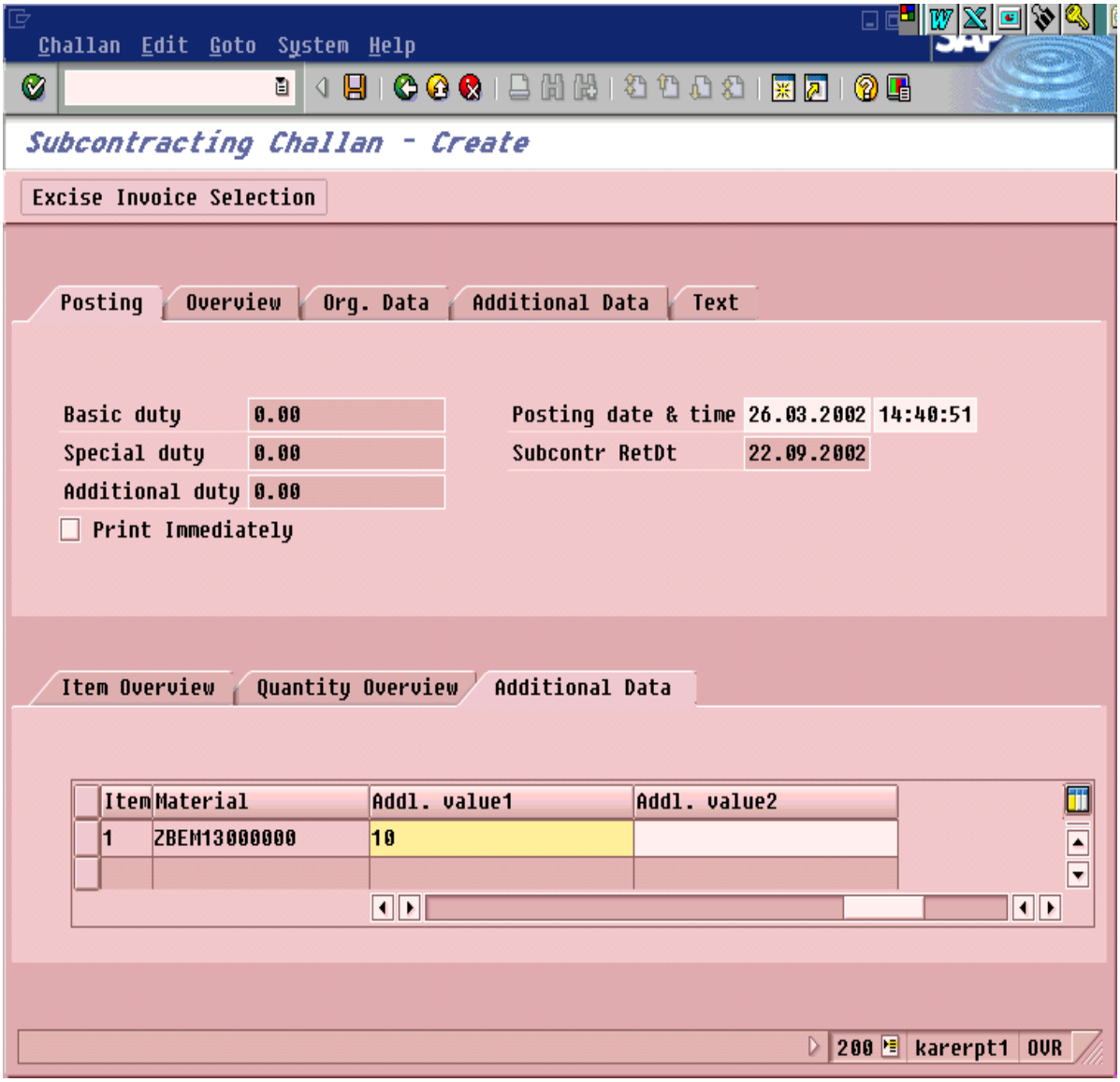
The next step to be done IMMEDIATELY is that of creation of the SUB-CONTRACT CHALLAN. As soon as the MB1B transaction is saved, go to J1IF01. Type the Material Document number that was generated at the time of making the 541 movement and other fields as applicable (example shown below for Flowserve Sanmar Limited).



Press "Enter". The system autmatically picks up the data as shown in the following screen :

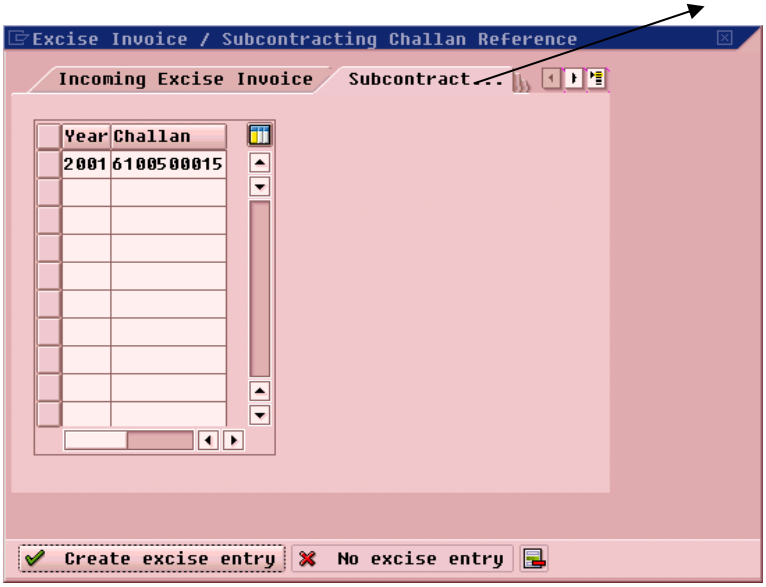
Choose the tab – "Additional Data" and scroll to the extreme right.

The last two fields in the Additional data shall be used for capturing the weights. The field Additional value 1 will be used for the Weight of the material that has gone out and the field Additional Value 2 shall be used for weight of the material that has come back.



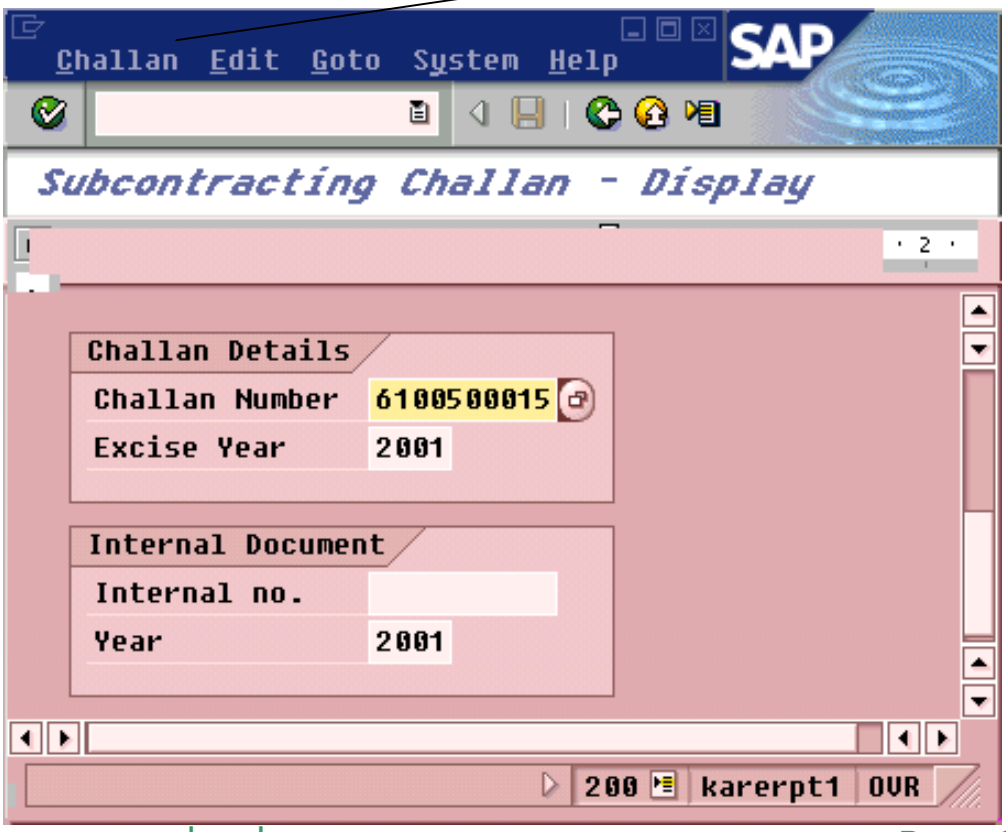
Currently only the field Additional Value 1 will be filled. Save the document. Note the Challan number in the Purchase Order copy. The challan can be printed through transaction ZMM024.

On receipt of the materials, a Goods Receipt is made against the Purchase Order. The transaction is MB01 like in the case of any other GR for Purchase Order. However when the system pops up the dialog box for the Excise Invoice details, then choose the second tab titled

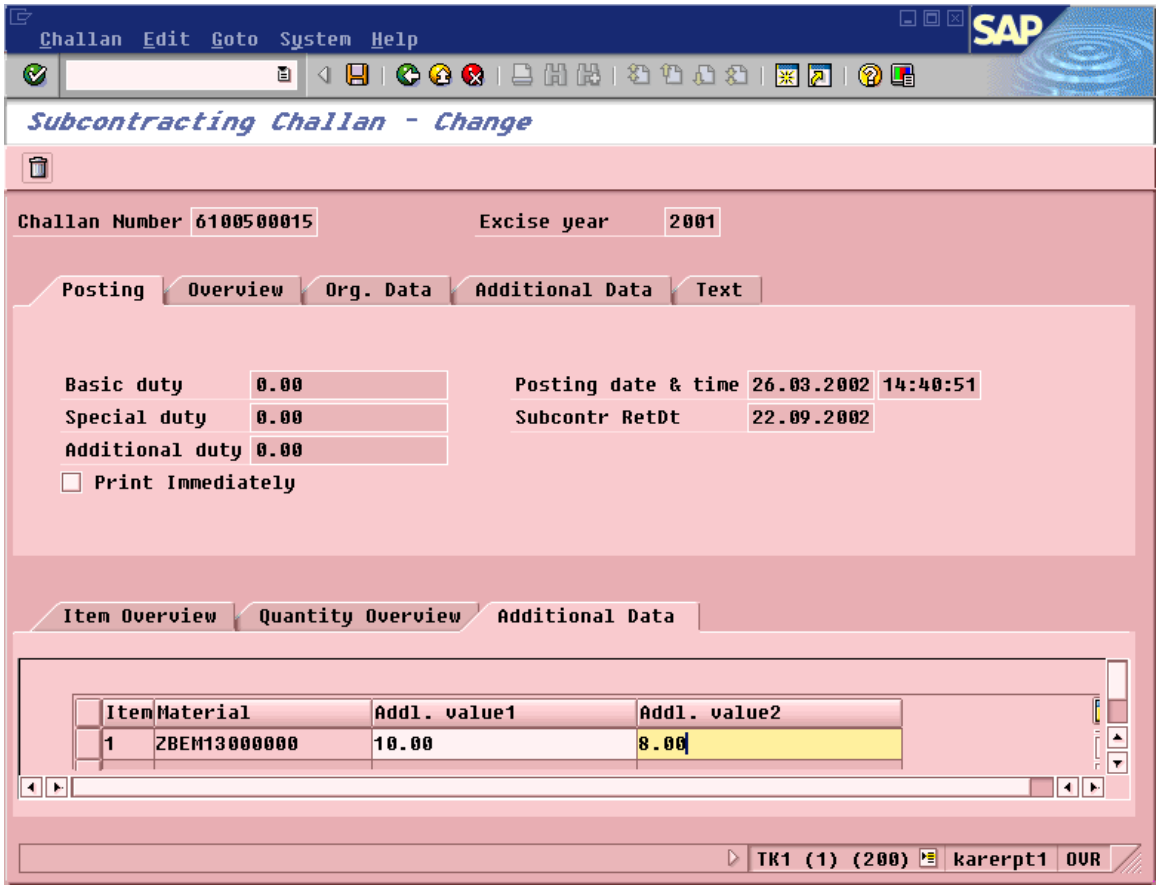


"Subcontracting Challans"

Give the Challan number and the Fiscal Year and continue by pressing enter. The process is then like the normal GR for Planned Sub-contracting which is already being done. IMMEDIATELY, the Challan is also to be opened by going to Transaction J1IF12 - On the Menu screen, select "Challan" and choose "Change" from there. Then type the Challan No. and the Excise year (Fiscal year) and press Enter.



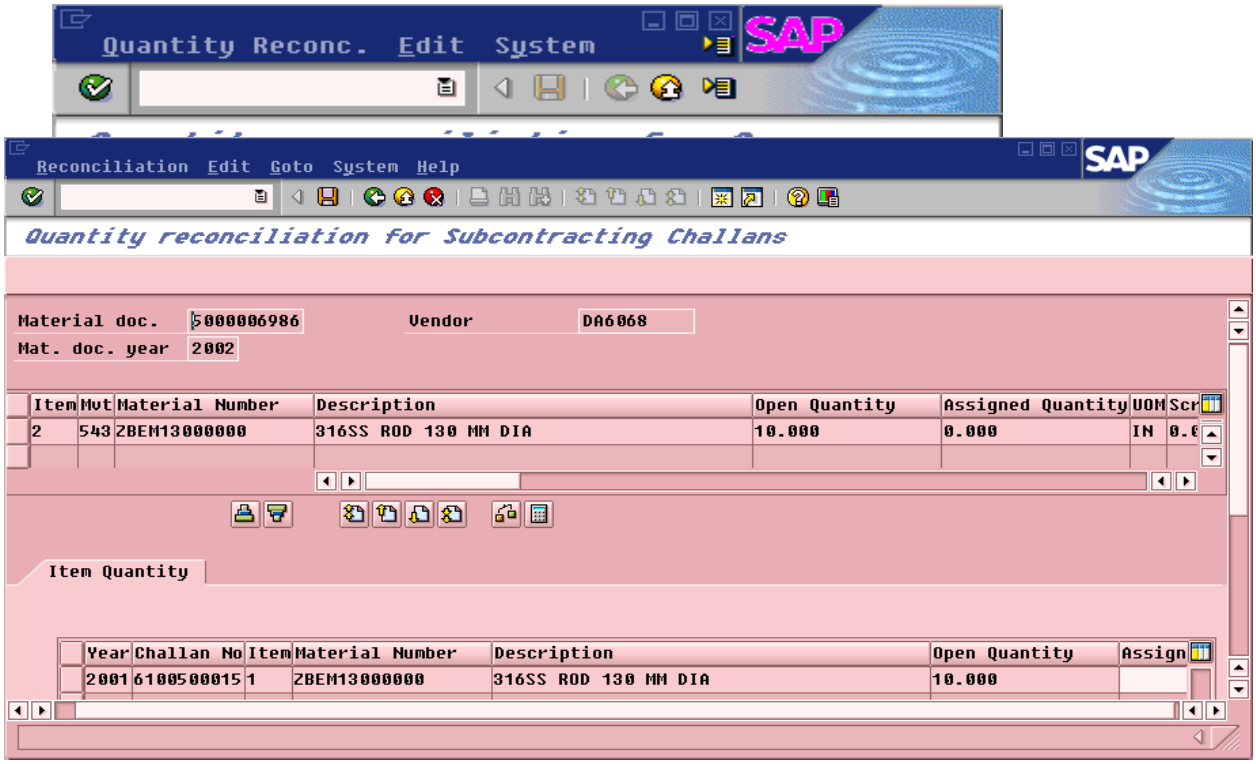
Inside the details of the Challan, go to the Tab titled "Additional Data " and scroll to the extreme right field titled "Additional Value 2". Here the weight of the quantity received is to be entered. If only part of the quantity is received this field may be updated with the weight received and at the time of receipt of the next lot, the weight of the latest lot received may be added to the existing weight in the field.



Please enter the weights in the additional fields only in kg always. Save the challan.

It may be noted here, that when the Goods Receipt is made, the Material is not taken into stock but is instead directly taken into the original Production Order to which the Purchase Order is assigned. This means that the material need not be once again issued separately by movement type 261.

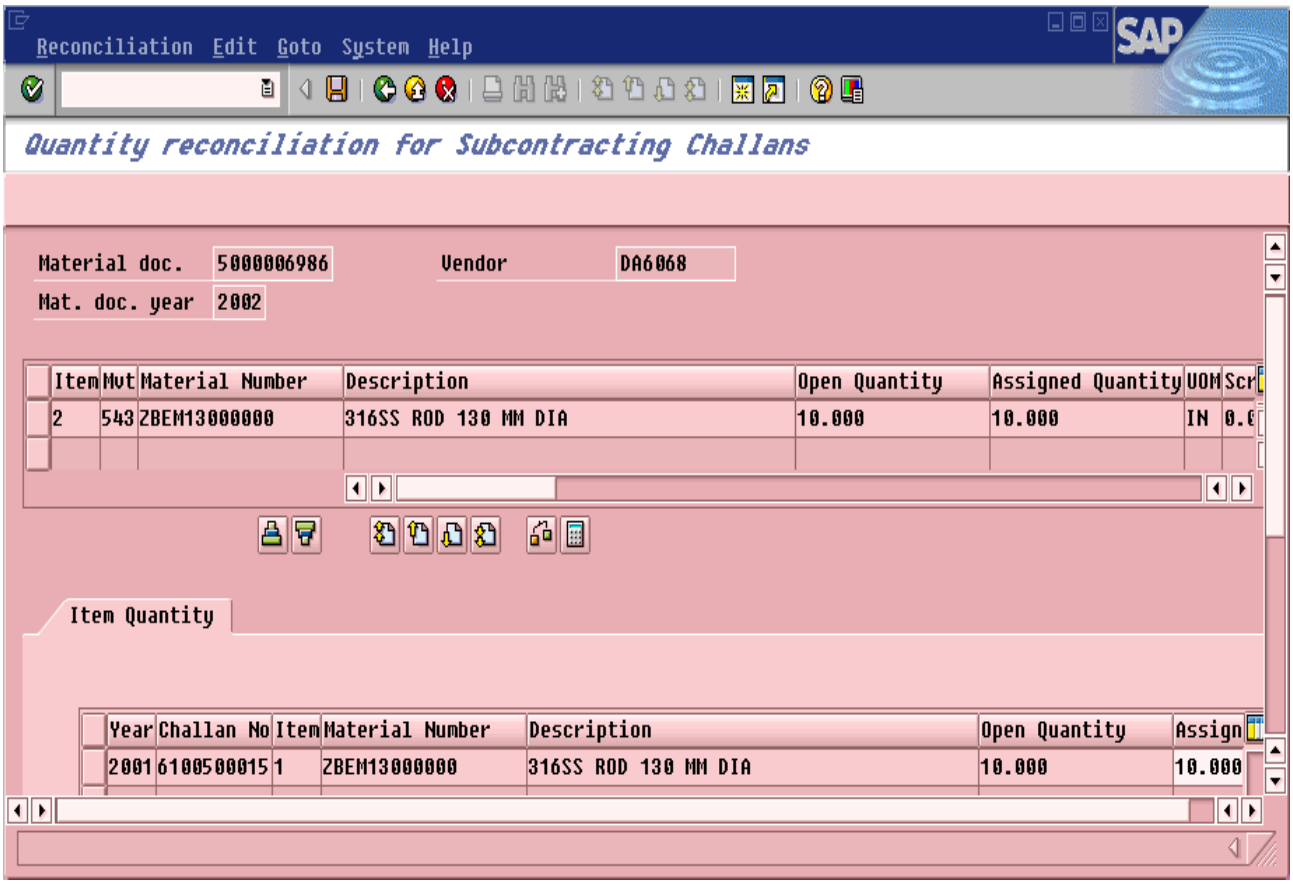
In SAP, there are two other relevant jobs in relation to the Sub-Contract challans so created. The first is that of Quantity reconciliation whereby the quantities in the receipt documents are updated against the Challan. This is called Quantity reconciliation. Instruction should be given to the Sub-contractor to return the challan along with the last lot of material. As and when the final lot has been received against a Challan, go to transaction J1IFQ.



Give the Material Document and the related challan. If the material has come back in various lots and hence there are a number of Material Documents against the same Challan, then the same activity should be carried out against each Material Document one by one. Please note that if the Challan number had been given at the time of preparing the GR itself, then the Challan no need not be given here, it would be sufficient to just give the Material Document and the Material Document Year. Click on "Reconcile".

The above screen appears and it consists of two parts. The top part shows details of the raw Materials Consumed at the time of making the GR against the Purchase Order and the lower part shows the list of materials sent against the challan. Click on the Icon represented by the Calculator in the middle. This assigns the quantity consumed against the Challan and fills up the field "Assigned Quantity in the Challan Details.

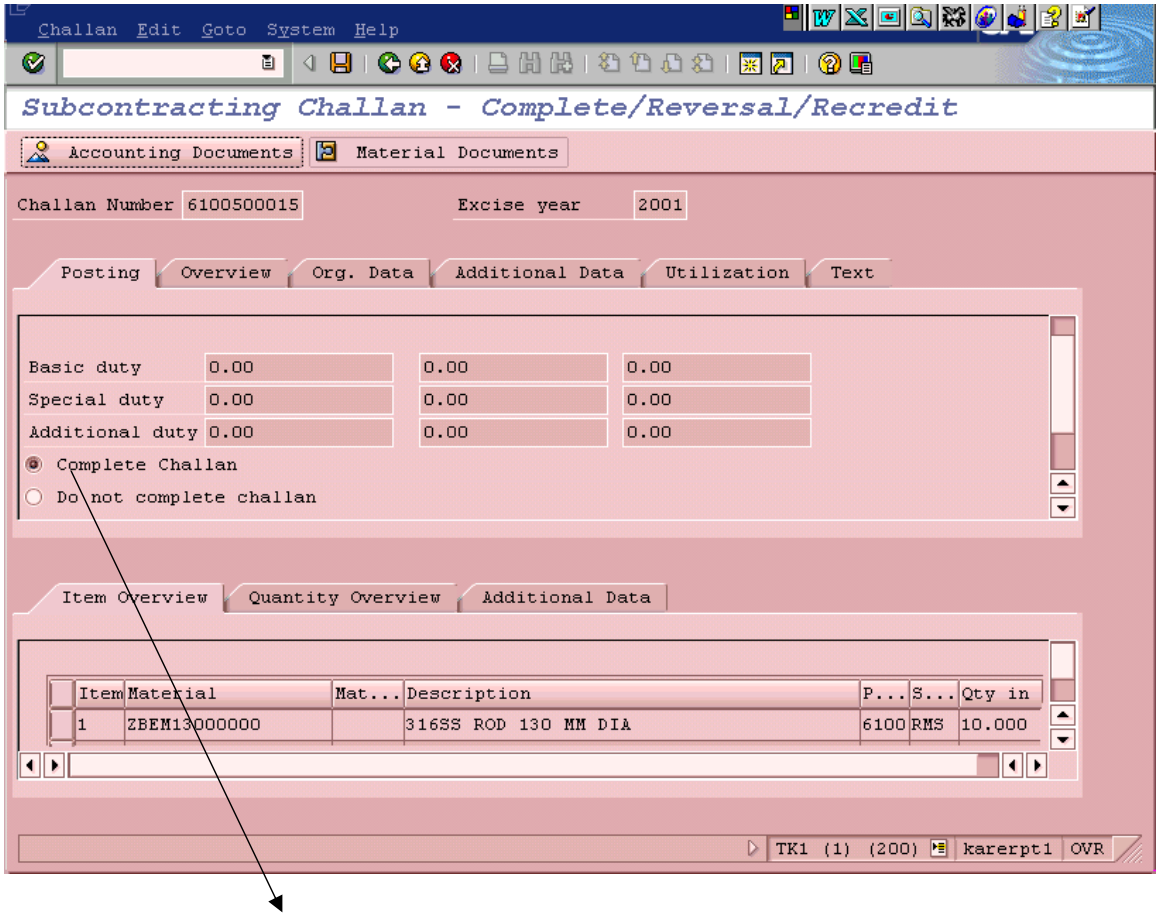
Save the Challan again. Once a Challan has been assigned quantities through this method, it cannot be changed. Hence it must be ensured that the weight is updated in the Additional Value 2 Field before the Quantity Reconciliation is done



The last activity in the process of the Sub-Contract Challan is the "Completion" of the Challan. This may have to be taken up by the person in-charge of the Excise registers including Annexure IV, etc.

Completion of the Challan

Go to Transaction J1IF13. In the entry screen type the Challan no and the Excise Year (Fiscal Year) and press enter. The following screen appears :



Select the "Complete Challan" option and save. It is only at this point that the challan is deemed to be completed.

Reports for the following are to be developed :

1. *Sub-Contract Challan printing* - *ABAP Layout*
2. *List of pending challans with Sub-contractor* - *Query*
3. *Details for scrap calculation* - *Query*
4. *Annexure IV Register* - *ABAP Report*

Rejections and Re-work

When QC does not approve the whole or part of the lot, then the question of rejections comes into existence. In a case where the QC has rejected part of the Goods returned from the sub-contractor, make a Goods receipt for the okayed quantity only. If the balance quantity is rejected, then make a 542 movement for the materials sent. The stock with sub-contractor becomes nil and the same increases in the Plant Stock. Now the next course of action would depend on the decision taken, very similar to the Line rejections. If the material is to be sent back to the original supplier, then it will have to be moved by movement type 291 to the vendor. If the material is to be scrapped, then it will have to be issued against Movement type 551. Even in cases where the material cost itself, is to be debited to the sub-contractor then the 291 movement will have to be done against that vendor.

If QC decides that the materials shall be sent back to the sub-contractor for re-work, then the materials may be inwarded through movement type 542 first and then re-issued against the same purchase Order and a whole new cycle be re-created.

SUBSEQUENT CHANGE IN ABOVE PROCEDURE

Subsequent to the documentation of the above procedure, there has been a small change in the procedure as outline above. In the case of unplanned sub-contracting, while creating the Purchase Order, the Material Code is not entered in the "Material Field, instead, the details of the process is typed in the Short text field and then Enter is pressed. The other activities in creating the Purchase Order remain the same however.

Accounting Entries and implications for Planned Sub-Contracting:

Example : Material COMP is defined as a Sub-Contract material and its BOM contains Material RM(1 no.). A Sub-Contract Purchase Order is raised for 3 nos of COMP. The BOM is automatically copied into the Purchase Order. At the time of the transaction, the moving average of RM is Rs.500/- The Sub-contract charges are deemed to be Rs.100 per no. of COMP.

Transaction : Transfer posting of RM to sub-contractor: MB1B (movement type 541)

Materials	FI	CO
Three nos of RM are shown as "Material provided to Sub-Contractor"	No Accounting document as this is only considered as a movement between two storage locations	No CO Document

Transaction : Receipt of COMP from Sub-Contractor : MB01 (movement type 101)

Materials	FI	CO
Three nos of COMP come into stock. Simultaneously, the system makes a movement type 543 for 3 nos of RM automatically to reduce the stock of RM from the Sub-contract. Thus after this transaction, the stock of RM comes down by 3 and stock of COMP goes up by 3	SC Consmptn A/c Dr 1500 TO RM Stock A/c 1500 Sub-Cont. chgs A/c Dr 300 To GR/IR Clearing A/c 300 COMP Stock A/c Dr 1800 To SC Cons recd A/c 1800	Sub-Contract Charges get debited to a Cost Center determined automatically determined from the Customizing settings.

Accounting Entries and implications for Un-Planned Sub-Contracting:

Example : Material COMP2 is a manufactured material and its BOM contains 1 no of RM2. Based on some demand a Production Order has been raised for 5 nos of COMP2. At the time of the transactions, the Moving Average of RM2 is Rs.200.

Transaction : Issue of Raw Material RM2 to Production Order : MB1A (Movement type 261)

Materials	FI	CO
Five nos of RM2 are consumed – Stock of RM2 reduces by 5.	RM Consumption A/c Dr 1000 To RM Stock A/c 1000	Production Order gets debited to the extent of Rs.1,000/-

In the course of operations, the Raw Material needs to be sent for sub-contracting one operation. A Sub-Contract Purchase Order is created for 5 nos RM2 with the BOM also containing 5 nos of RM2 and the PO is assigned to the Production Order. Hence based on the print-out of the PO, the materials are first withdrawn from the Production Order.Sub Contract Charges – Rs100 per piece.

Transaction : Reversal of issue of RM2 from Production Order : MBST (reversal of document)

Materials	FI	CO
Consumption of 5 nos of RM2 is reversed. Stock of RM2 increases by 5.	RM Stock A/c Dr 1000 To RM Consumption A/c 1000	The debit in the Production Order reduces by Rs.1,000/-

Immediately the materials are sent to the Sub-Contractor.
Transaction : Transfer posting of RM2 to sub-contractor: MB1B (movement type 541)

Materials	FI	CO
Five nos of RM2 are shown as "Material provided to Sub-Contractor"	No Accounting document as this is only considered as a movement between two storage locations	No CO Document

Transaction : Receipt of COMP2 from Sub-Contractor : MB01 (movement type 101)

Materials	FI	CO
The Goods Receipt of COMP2 is directly posted into the Production Order. Simultaneously the stock of RM2 is consumed thro' Movement type 543. Net result is that Stock of RM2 reduces and there is no increase in the stock of COMP2	SC Charges A/c Dr 500 GR/IR Clearing A/c 500 RM2 Consmptn A/c Dr 1000 To RM2 Stock A/c 1000	The Production Order gets debited with Rs.500 towards Sub-Contract Charges and Rs.1000 towards cost of RM2, directly taken to the Production Order.

-
  - Concepts Documents
    - Budget Control System (FM-BCS) Concept Presentation
    - IS Utilities Concept Presentation
    - SAP Account Payable Concept Presentation
    - SAP Account Receivable Concept Presentation
    - SAP Bank Accounting Concept Presentation
    - SAP Batch Management Concept Presentation
    - SAP Controlling Concept Presentation
    - SAP ECC 6.0 CIN Business Blueprint Document
    - SAP ECC CIN Concept Presentation
    - Sap FI Presentation
    - SAP FI SD MM Integration
    - SAP Fixed Assets Concept Presentation
    - SAP GL Concept Presentation
    - SAP MM Enterprise Structure Concept Presentation
    - SAP MM Inventory Management Concept Presentation
    - SAP MM Master Data and Purchase Requisition Concept Presentation
    - SAP MM Production Planning MRP Concept Presentation
    - SAP MM Purchasing Concept Presentation
    - SAP MM Warehouse Management Concept Presentation
    - SAP New GL Concept Presentation
    - SAP Organization Structure Concept Presentation
    - SAP PM Equipment Calibration Concept Presentation
    - SAP PM Maintenance Plan and Notification Concept Presentation
    - SAP PM Master Data Concept Presentation
    - SAP PM Order Concept Presentation
    - SAP PM Technical Object Concept Presentation
    - SAP PP Master Data Concept Presentation
    - SAP PP Production Execution Concept Presentation
    - SAP PP Sales and Operation Planning Concept Presentation
    - SAP Product Cost Material Ledger Concept Presentation
    - SAP Profit Center Concept Presentation
    - SAP Profitability Analysis Concept Presentation
    - SAP QM Inspection Planning Concept Presentation
    - SAP QM Quality Notification, Certificate, Reports Concept Presen
    - SAP Sales and Distribution (SD) Concept Presentations Kit
  - Configuration Documents
    - Funds Management BCS Configuration
    - IS Utility Billing and Device Management Configuration Document
    - ISU FICA (Contract Accounts) Configuration Document
    - ISU Plant Maintenance and Customer Service Configuration Documen
    - SALES AND DISTRIBUTION CONFIGURATION MANUAL
    - SAP Assets Accounting Configuration Document
    - SAP Bank Accounting Configuration Document
    - SAP Batch Management Configuration Documents
    - SAP CIN Configuration Document
    - SAP Classical GL Configuration Document GL Configuration Doc
    - SAP Controlling Configuration Documents
    - SAP COPA (Profitability Analysis) Configuration Document
    - SAP FI AP AR Configuration Document
    - SAP Grants Management Configuration Guide ECC 6.0
    - SAP Internal Order Configuration Document
    - SAP Lock Box Configuration Documents

- SAP Material Ledger Configuration Document
- SAP MM Enterprise Structure Configuration Document
- SAP MM Inventory Management Configuration Document
- SAP MM Master Data and Purchase Requisition Configuration Docume
- SAP MM Production Planning MRP Configuration Document
- SAP MM Purchasing Configuration Document
- SAP MM Warehouse Management Configuration Document
- SAP New GL Configuration Document
- SAP PM Equipment Calibration Configuration Document
- SAP PM Maintenance Plan and Notification Configuration
- SAP PM Master Data Configuration Documents
- SAP PM Order Configuration Document
- SAP PM Technical Object Configuration Documents
- SAP PP for Process Industry Configuration Document
- SAP PP Master Data Configuration Document
- SAP PP MRP Configuration Document
- SAP PP Production Execution Configuration Document
- SAP PP Sales and Operation Planning (SOP) Configuration Document
- SAP Product Costing (CO-PC) Configuration Documents
- SAP Profit Center Configuration Document
- SAP QM Quality Management Inspection Planning Configuration Docu
- SAP QM Quality Notification, Certificate, Reports Configuration
- SAP SD Availability Check Sales Concept Configuration and Use
- SAP SD Availability Check Shipping Concept Configuration and Use
- SAP SD Billing Configuration Documents
- SAP SD Credit Management Concept Configuration and Use
- SAP SD Delivery and Transportation scheduling Configuration Docu
- SAP SD Delivery Shipping Concept Configuration and Use
- SAP SD Enterprise Structure Master Data Concept Configuration an
- SAP SD Free goods Concept Configuration and Use
- SAP SD Incompletion Sales Concept Configuration and Use
- SAP SD Intercompany Sales Concept Configuration and Use
- SAP SD Listing and exclusion Configuration Documents
- SAP SD Material Determination Concept Configuration and Use
- SAP SD Output Control Concept Configuration and Use
- SAP SD Partner Determination Concept Configuration and Use
- SAP SD Payment Cards Concept Configuration and Use
- SAP SD Pricing Taxes Concept Configuration and Use Documents
- SAP SD Sales Concept Configuration and Use
- SAP SD Text Control Concept Configuration and Use
- SAP SD Third Party Processing Concept Configuration and Use
- SAP Solution Manager Configuration and Usage Approach
- Withholding Tax Configuration Document

o Process Documents
- CIN Business Process Document Kit
- FM Business Process on P2P Cycle with Down Payment
- ISU FICA (Contract Accounts) End User Documents
- ISU Plant Maintenance and Customer Service End User Documents
- Material Ledger (CO-ML) End User Documents
- Profitability Analysis (CO-PA) End User Documents
- SAP Assets Accounting End User Documents
- SAP Bank Accounting End User Documents
- SAP Batch Management End User Documents
- SAP Controlling CCA End User Document Kit
- SAP FI Accounts Payable (AP) End User Documents
- SAP FI Accounts Receivable (AR) End User Documents
- SAP GL End User Document Kit
- SAP IS Utility Basic Presentations
- SAP IS Utility Billing End User Documents (ISU-BI)

- SAP IS Utility Device Management (DM) End User Documents
- SAP MM Inventory Management End User Documents
- SAP MM Master Data and Purchase Requisition Documents
- SAP MM MRP End User Documents
- SAP MM Purchasing End User Documents
- SAP MM Warehouse Management End User Documents
- SAP New GL End User Document
- SAP PM Equipment Calibration End User Documents
- SAP PM Maintenance Plan and Notification End User Documents
- SAP PM Master Data End User Documents
- SAP PM Order End User Documents
- SAP PM Technical Object End User Documents
- SAP PP For Process Industry End User Documents
- SAP PP Master Data End User Documents
- SAP PP MRP End User Documents
- SAP PP Production Execution End User Documents
- SAP PP Sales and Operation Planning End User Documents
- SAP Product Costing (CO-PC) End User Documents
- SAP Profit Center Accounting (EC-PCA) End User Documents
- SAP QM Inspection Planning End User Documents
- SAP QM Quality Notification, Certificate, Reports End User Docum
- Solution Manager End User Training Presentation

o Solution Documents
- CIN Data Upload Tool kit (LSMW)
- Complete set of SAP CO Documents
- Complete set of SAP FI Documents
- How to Control Authorization on FM Master Data Level
- How to Implement SAP MM Warehouse Management Project
- How to Migrate Former Budget to Budget Control System
- IS Utility Migration Workbench Emigall Guide
- LSMW Step By Step Guide
- Message no. DS017 Program 4FBU does not exist
- Negative Budget in BCS due to Transfer Posting
- SAP Cost object controlling period end steps
- SAP ECC CIN Complete Implementation Document Kit
- SAP FI CO Authorization Matrix
- SAP Funds Management BCS Complete Implementation Documents
- SAP IS Utility Complete Project Documents
- SAP MM Material Management Complete Documents
- SAP MM Warehouse Management Complete Documents
- SAP PM Plant Maintenance Complete Documents
- SAP PP Production Planning Complete Documents
- SAP Product Cost Material ledger self learning documents
- SAP QM Quality Management Complete Documents
- SAP Report Painter Writer Step By Step Guide
- SAP SD Sales and Distribution Complete Documents
- SAP Solution Manager Integration with Non-SAP system
- Sizing conflicts exist on the screen; for more information see S
- SQ01 SQ02 SQ03 ABAP Query for Functional Consultants

o General Documents
- SAP Basis Interview Questions, Answers, and Explanations
- SAP Business Workflow Interview Questions
- SAP CRM Interview Questions, Answers, and Explanations
- SAP EDI IDOC Interview Question Answer
- SAP FI CO Interview Questions, Answers, and Explanations
- SAP HR Interview Questions, Answers, and Explanations
- SAP MM Certification Questions, Answers, and Explanations
- SAP Plant Maintenance Interview Questions, Answers, and Explanat
- SAP Production Planning Questions, Answers, and Explanations

        - SAP Project Systems Questions, Answers, and Explanations
        - SAP Quality Management Interview Questions, Answers, and Explana
        - SAP SCM Interview Questions, Answers, and Explanations
        - SAP SD Interview Questions, Answers, and Explanations
        - SAP Security Interview Questions, Answers, and Explanations
        - SAP SEM Interview Questions, Answers, and Explanations

- SAP Library
    - GM - Grants
        - SAP Grants Management Configuration Guide ECC 6.0
    - Warehouse
        - SAP WM Warehouse Management Configuration Document
        - SAP MM Warehouse Management Concept Presentation
        - SAP WM Warehouse Management End User Documents
        - Implement Guide SAP MM Warehouse Management Project
        - SAP MM Warehouse Management Complete Documents
    - IS Utility
        - SAP IS Utility Concept Presentation
        - SAP IS Utility Billing End User Documents (ISU-BI)
        - IS Utility Migration Workbench Emigall Guide
        - SAP IS Utility Device Management (DM) End User Documents
        - IS Utility Billing and Device Management Configuration Document
        - SAP IS Utility Complete Project Documents
        - ISU FICA (Contract Accounts) Configuration Document
        - ISU Plant Maintenance and Customer Service Configuration
        - ISU FICA (Contract Accounts) End User Documents
        - ISU Plant Maintenance and Customer Service End User Documents
        - SAP IS Utility Basic Presentations
    - SEM
        - SAP SEM Interview Questions, Answers, and Explanations
    - Security
        - SAP FI CO Authorization Matrix
        - SAP Security Interview Questions, Answers, and Explanations
    - QM
        - SAP Quality Management Interview Questions, Answers, and Explanation
        - SAP QM Inspection Planning Configuration Document
        - SAP QM Quality Notification, Certificate, Reports Configuration
        - SAP QM Inspection Planning Concept Presentation
        - SAP QM Quality Notification, Certificate, Reports Concept Presentation
        - SAP QM Inspection Planning End User Documents
        - SAP QM Quality Notification, Certificate, Reports End User Documents
        - SAP QM Quality Management Complete Documents
    - PS
        - SAP Project Systems Questions, Answers, and Explanations
    - PP
        - SAP Production Planning Questions, Answers, and Explanations
        - SAP PP Sales and Operation Planning Concept Presentation
        - SAP PP Master Data Configuration Document
        - SAP PP Production Execution Concept Presentation
        - SAP PP Sales and Operation Planning Configuration Document
        - SAP PP Master Data End User Documents
        - SAP PP MRP Configuration Document
        - SAP PP Sales and Operation Planning End User Documents
        - SAP PP Production Execution Configuration Document
        - SAP PP MRP End User Documents
        - SAP PP For Process Industry Configuration Document
        - SAP PP Production Execution End User Documents
        - SAP MM MRP Concept Presentation
        - SAP PP For Process Industry End User Documents

- SAP PP Master Data Concept Presentation
- SAP PP Production Planning Complete Documents

- PM
  - SAP Plant Maintenance Interview Questions, Answers, and Explanation
  - SAP PM Maintenance Plan and Notification Concept Presentation
  - SAP PM Plant Maintenance Complete Documents
  - SAP PM Technical Object Configuration Documents
  - SAP PM Order Concept Presentation
  - SAP PM Master Data Configuration Documents
  - SAP PM Equipment Calibration Concept Presentation
  - SAP PM Maintenance Plan and Notification Configuration
  - SAP PM Technical Object End User Documents
  - SAP PM Order Configuration Document
  - SAP PM Master Data End User Documents
  - SAP PM Equipment Calibration Configuration
  - SAP PM Maintenance Plan and Notification End User Documents
  - SAP PM Technical Object Concept Presentation
  - SAP PM Order End User Documents
  - SAP PM Master Data Concept Presentation
  - SAP PM Equipment Calibration End User Documents
- HR HCM
  - SAP HR Interview Questions, Answers, and Explanations
- ABAP
  - SAP EDI IDOC Interview Question Answer
  - Step By Step Guide for SQ01 SAP Query
- CRM
  - SAP CRM Interview Questions, Answers, and Explanations
- Workflow
  - SAP Business Workflow Interview Questions Answer and Explanation
- Interview
  - SAP Basis Interview Questions, Answers, and Explanations
  - SAP Production Planning Questions, Answers, and Explanations
  - SAP Business Workflow Interview Questions Answer and Explanation
  - SAP Project Systems Questions, Answers, and Explanations
  - SAP CRM Interview Questions, Answers, and Explanations
  - SAP Quality Management Interview Questions, Answers, and Explanation
  - SAP EDI IDOC Interview Question Answer
  - SAP SCM Interview Questions, Answers, and Explanations
  - SAP FI CO Interview Questions, Answers, and Explanations
  - SAP SD Interview Questions, Answers, and Explanations
  - SAP HR Interview Questions, Answers, and Explanations
  - SAP Security Interview Questions, Answers, and Explanations
  - SAP MM Certification Questions, Answers, and Explanations
  - SAP SEM Interview Questions, Answers, and Explanations
  - SAP Plant Maintenance Interview Questions, Answers, and Explanation
- Basis
  - Sizing conflicts exist on the screen; for more information see SAP Note 570861.
  - SAP Basis Interview Questions, Answers, and Explanations
- End to End
  - Complete set of SAP CO Project Documents
  - SAP PM Plant Maintenance Complete Documents
  - Complete set of SAP FI Project Documents
  - SAP PP Production Planning Complete Documents
  - SAP ECC CIN Complete Implementation Document Kit
  - SAP SD Sales and Distribution Complete Documents
  - SAP Funds Management BCS Complete Implementation Documents
  - SAP Product Cost Material ledger self learning documents
  - SAP IS Utility Complete Project Documents
  - SAP MM Warehouse Management Complete Documents
  - SAP MM Material Management Complete Documents

- SAP QM Quality Management Complete Documents
- Solutions
  - CIN Data Upload Tool kit (LSMW)
  - SAP FI CO Authorization Matrix
  - Implement Guide SAP MM Warehouse Management Project
  - SAP Product Cost Material ledger self learning documents
  - Complete set of SAP FI Project Documents
  - Complete set of SAP CO Project Documents
  - SAP MM Warehouse Management Complete Documents
  - How to Control Authorization on FM Master Data Level
  - SAP Funds Management BCS Complete Implementation Documents
  - SAP MM Material Management Complete Documents
  - How to Migrate Former Budget to Budget Control System
  - IS Utility Migration Workbench Emigall Guide
  - SAP QM Quality Management Complete Documents
  - Message no. DS017 Program 4FBU does not exist
  - SAP IS Utility Complete Project Documents
  - SAP PM Plant Maintenance Complete Documents
  - SAP ECC CIN Complete Implementation Document Kit
  - SAP Report Painter Writer Step By Step Guide
  - SAP PP Production Planning Complete Documents
  - SAP Solution Manager Integration with Non-SAP system
  - LSMW Step by Step User Manual
  - SAP SD Sales and Distribution Complete Documents
  - Sizing conflicts exist on the screen; for more information see SAP Note 570861.
  - Step By Step Guide for SQ01 SAP Query
  - BCS Negative Budget due to Budget Transfer
- End Users
  - CIN Business Process Documents
  - SAP FI Accounts Receivable (AR) End User Documents
  - SAP IS Utility Device Management (DM) End User Documents
  - SAP PM Master Data End User Documents
  - SAP PP For Process Industry End User Documents
  - FM Business Process on P2P Cycle with Down Payment
  - SAP GL End User Documents
  - SAP MM Master Data and Purchase Requisition End User Documents
  - SAP PM Maintenance Plan and Notification End User Documents
  - SAP QM Inspection Planning End User Documents
  - Material Ledger (CO-ML) End User Documents
  - SAP Product Costing (CO-PC) End User Documents
  - SAP MM Purchasing End User Documents
  - SAP PM Order End User Documents
  - SAP QM Quality Notification, Certificate, Reports End User Documents
  - Profitability Analysis (CO-PA) End User Documents
  - SAP Profit Center Accounting (EC-PCA) End User Documents
  - SAP MM Inventory Management End User Documents
  - SAP PM Equipment Calibration End User Documents
  - SAP New GL End User Document
  - Solution Manager End User Training Presentation
  - SAP Assets Accounting End User Documents
  - ISU FICA (Contract Accounts) End User Documents
  - SAP WM Warehouse Management End User Documents
  - SAP PP Master Data End User Documents
  - SAP Bank Accounting End User Documents
  - ISU Plant Maintenance and Customer Service End User Documents
  - SAP MM MRP End User Documents
  - SAP PP Sales and Operation Planning End User Documents
  - SAP Controlling CCA End User Document
  - SAP IS Utility Basic Presentations

- SAP Batch Management End User Documents
- SAP PP MRP End User Documents
- SAP FI Accounts Payable (AP) End User Documents
- SAP IS Utility Billing End User Documents (ISU-BI)
- SAP PM Technical Object End User Documents
- SAP PP Production Execution End User Documents

- SolMan
  - SAP Solution Manager Configuration and Usage Approach
  - SAP Solution Manager Integration with Non-SAP system
  - Solution Manager End User Training Presentation
- Configuration
  - SAP SD Sales Order Concept Configuration and Use
  - SAP SD Free Goods Concept Configuration and Use
  - SAP SD Material Determination Concept Configuration and Use
  - Funds Management BCS Configuration
  - SAP FI AP AR Configuration Document
  - IS Utility Billing and Device Management Configuration Document
  - SAP Batch Management Configuration Documents
  - SAP PP MRP Configuration Document
  - SAP SD Availability Check Sales Concept Configuration and Use
  - SAP SD Incompletion Sales Concept Configuration and Use
  - Withholding Tax Configuration Document
  - Sales And Distribution Configuration Manual with CIN
  - SAP Internal Order Configuration Document
  - ISU FICA (Contract Accounts) Configuration Document
  - SAP PM Technical Object Configuration Documents
  - SAP PP Production Execution Configuration Document
  - SAP SD Availability Check Shipping Concept Configuration and Use
  - SAP SD Intercompany Sales Concept Configuration and Use
  - SAP Grants Management Configuration Guide ECC 6.0
  - SAP Assets Accounting Configuration Document
  - SAP Lock Box Configuration Documents
  - ISU Plant Maintenance and Customer Service Configuration
  - SAP PM Master Data Configuration Documents
  - SAP PP For Process Industry Configuration Document
  - SAP SD Delivery Shipping Concept Configuration and Use
  - SAP SD Output Control Concept Configuration and Use
  - SAP Bank Accounting Configuration Document
  - SAP Material Ledger Configuration Document
  - SAP MM Master Data and Purchase Requisition Configuration
  - SAP PM Maintenance Plan and Notification Configuration
  - SAP QM Inspection Planning Configuration Document
  - SAP QM Quality Notification, Certificate, Reports Configuration
  - SAP SD Delivery and Transportation scheduling Configuration Documents
  - SAP SD Partner Determination Concept Configuration and Use
  - SAP CIN Configuration Document
  - SAP New GL Configuration Document
  - SAP MM Purchasing Configuration Document
  - SAP PM Order Configuration Document
  - SAP MM Enterprise Structure Configuration
  - SAP SD Billing Configuration Documents
  - SAP SD Payment Cards Concept Configuration and Use
  - SAP FI and Classical GL Configuration Document
  - SAP Product Costing (CO-PC) Configuration Documents
  - SAP MM Inventory Management Configuration Document
  - SAP PM Equipment Calibration Configuration
  - SAP SD Pricing and Taxes Concept Configuration and Use Documents
  - SAP SD Listing and exclusion Configuration Documents
  - SAP SD Text Control Concept Configuration and Use

- SAP Controlling Configuration Documents
- SAP Profit Center Configuration Document
- SAP WM Warehouse Management Configuration Document
- SAP PP Master Data Configuration Document
- SAP SD Enterprise Structure Concept Configuration and Use
- SAP SD Credit Management Concept Configuration and Use
- SAP SD Third Party Processing Concept Configuration and Use
- SAP COPA (Profitability Analysis) Configuration Document
- SAP Solution Manager Configuration and Usage Approach
- SAP MM MRP Configuration Document
- SAP PP Sales and Operation Planning Configuration Document

o MM SCM
- SAP FI SD MM Integration
- SAP MM MRP Configuration Document
- SAP MM Master Data and Purchase Requisition End User Documents
- SAP Organization Structure Concept Presentation
- SAP Batch Management Configuration Documents
- SAP MM Purchasing End User Documents
- SAP MM Certification Questions, Answers, and Explanations
- SAP MM Enterprise Structure Concept Presentation
- SAP MM Inventory Management End User Documents
- SAP SCM Interview Questions, Answers, and Explanations
- SAP MM Master Data and Purchase Requisition Concept Presentation
- SAP MM MRP End User Documents
- SAP MM Enterprise Structure Configuration
- SAP MM Purchasing Concept Presentation
- SAP Batch Management End User Documents
- SAP MM Master Data and Purchase Requisition Configuration
- SAP MM Inventory Management Concept Presentation
- SAP MM Material Management Complete Documents
- SAP MM Purchasing Configuration Document
- SAP MM MRP Concept Presentation
- SAP MM Inventory Management Configuration Document
- SAP Batch Management Concept Presentation

o SAP SD
- SAP FI SD MM Integration
- SAP SD Sales Order Concept Configuration and Use
- SAP SD Free Goods Concept Configuration and Use
- SAP SD Material Determination Concept Configuration and Use
- SAP Organization Structure Concept Presentation
- SAP SD Availability Check Sales Concept Configuration and Use
- SAP SD Incompletion Sales Concept Configuration and Use
- Sales And Distribution Configuration Manual with CIN
- SAP SD Availability Check Shipping Concept Configuration and Use
- SAP SD Intercompany Sales Concept Configuration and Use
- SAP SD Interview Questions, Answers, and Explanations
- SAP SD Delivery Shipping Concept Configuration and Use
- SAP SD Output Control Concept Configuration and Use
- SAP Sales and Distribution (SD) Concept Presentations Kit
- SAP SD Delivery and Transportation scheduling Configuration Documents
- SAP SD Partner Determination Concept Configuration and Use
- SAP SD Sales and Distribution Complete Documents
- SAP SD Billing Configuration Documents
- SAP SD Payment Cards Concept Configuration and Use
- SAP SD Pricing and Taxes Concept Configuration and Use Documents
- SAP SD Listing and exclusion Configuration Documents
- SAP SD Text Control Concept Configuration and Use
- SAP SD Enterprise Structure Concept Configuration and Use
- SAP SD Credit Management Concept Configuration and Use

        - SAP SD Third Party Processing Concept Configuration and Use
    - CIN
        - SAP ECC 6.0 CIN Business Blueprint Document
        - SAP ECC CIN Concept Presentation
        - Sales And Distribution Configuration Manual with CIN
        - SAP CIN Configuration Document
        - CIN Business Process Documents
        - CIN Data Upload Tool kit (LSMW)
        - SAP ECC CIN Complete Implementation Document Kit
        - Withholding Tax Configuration Document
    - Presentations
        - SAP Bank Accounting Concept Presentation
        - SAP GL Concept Presentation
        - SAP MM Enterprise Structure Concept Presentation
        - SAP PM Master Data Concept Presentation
        - SAP QM Quality Notification, Certificate, Reports Concept Presentation
        - SAP Account Payable Concept Presentation
        - SAP New GL Concept Presentation
        - SAP MM Master Data and Purchase Requisition Concept Presentation
        - SAP PM Maintenance Plan and Notification Concept Presentation
        - SAP Sales and Distribution (SD) Concept Presentations Kit
        - SAP Account Receivable Concept Presentation
        - SAP Organization Structure Concept Presentation
        - SAP MM Purchasing Concept Presentation
        - SAP PM Order Concept Presentation
        - Budget Control System (FM-BCS) Concept Presentation
        - SAP Product Cost Material Ledger Concept Presentation
        - SAP MM Inventory Management Concept Presentation
        - SAP PM Equipment Calibration Concept Presentation
        - SAP Controlling Concept Presentation
        - SAP Profit Center Concept Presentation
        - SAP MM Warehouse Management Concept Presentation
        - SAP PP Master Data Concept Presentation
        - SAP ECC CIN Concept Presentation
        - SAP Profitability Analysis Concept Presentation
        - SAP MM MRP Concept Presentation
        - SAP PP Sales and Operation Planning Concept Presentation
        - Sap FI Presentation
        - SAP IS Utility Concept Presentation
        - SAP Batch Management Concept Presentation
        - SAP PP Production Execution Concept Presentation
        - SAP Fixed Assets Concept Presentation
        - SAP IS Utility Basic Presentations
        - SAP PM Technical Object Concept Presentation
        - SAP QM Inspection Planning Concept Presentation
    - FM BCS
        - Budget Control System (FM-BCS) Concept Presentation
        - SAP Grants Management Configuration Guide ECC 6.0
        - Funds Management BCS Configuration
        - FM Business Process on P2P Cycle with Down Payment
        - How to Control Authorization on FM Master Data Level
        - How to Migrate Former Budget to Budget Control System
        - Message no. DS017 Program 4FBU does not exist
        - SAP Funds Management BCS Complete Implementation Documents
        - BCS Negative Budget due to Budget Transfer
    - Controlling
        - IO
            - SAP Internal Order Configuration Document
            - SAP Report Painter Writer Step By Step Guide

        - SAP Cost object controlling period end steps
    - CO PA
        - SAP Profitability Analysis Concept Presentation
        - SAP COPA (Profitability Analysis) Configuration Document
        - Profitability Analysis (CO-PA) End User Documents
        - SAP Report Painter Writer Step By Step Guide
        - SAP Cost object controlling period end steps
    - PCA
        - SAP Profit Center Concept Presentation
        - SAP Profit Center Configuration Document
        - SAP Profit Center Accounting (EC-PCA) End User Documents
        - SAP Report Painter Writer Step By Step Guide
        - SAP Cost object controlling period end steps
    - Material Ledger
        - SAP Product Cost Material Ledger Concept Presentation
        - SAP Material Ledger Configuration Document
        - Material Ledger (CO-ML) End User Documents
        - SAP Report Painter Writer Step By Step Guide
        - SAP Cost object controlling period end steps
        - SAP Product Cost Material ledger self learning documents
    - Product Cost
        - SAP Product Cost Material Ledger Concept Presentation
        - SAP Product Costing (CO-PC) Configuration Documents
        - SAP Product Costing (CO-PC) End User Documents
        - SAP Report Painter Writer Step By Step Guide
        - SAP Cost object controlling period end steps
        - SAP Product Cost Material ledger self learning documents
    - CCA
        - SAP Controlling Concept Presentation
        - SAP Cost object controlling period end steps
        - SAP Organization Structure Concept Presentation
        - SAP Controlling Configuration Documents
        - SAP Controlling CCA End User Document
        - Complete set of SAP CO Project Documents
        - SAP FI CO Authorization Matrix
        - SAP FI CO Interview Questions, Answers, and Explanations
        - SAP Report Painter Writer Step By Step Guide
    - SAP Product Cost Material ledger self learning documents
    - Complete set of SAP CO Project Documents
- Financial
    - FI AA
        - SAP Fixed Assets Concept Presentation
        - SAP Assets Accounting Configuration Document
        - SAP Assets Accounting End User Documents
    - FI AP
        - SAP Account Payable Concept Presentation
        - SAP FI AP AR Configuration Document
        - SAP FI Accounts Payable (AP) End User Documents
        - Withholding Tax Configuration Document
    - FI AR
        - SAP Account Receivable Concept Presentation
        - SAP FI AP AR Configuration Document
        - SAP FI Accounts Receivable (AR) End User Documents
        - Withholding Tax Configuration Document
    - BANK
        - SAP Bank Accounting Concept Presentation
        - SAP Bank Accounting Configuration Document
        - SAP Lock Box Configuration Documents
        - SAP Bank Accounting End User Documents

- FI GL
    - Sap FI Presentation
    - Complete set of SAP FI Project Documents
    - SAP FI SD MM Integration
    - SAP FI CO Authorization Matrix
    - SAP GL Concept Presentation
    - SAP FI CO Interview Questions, Answers, and Explanations
    - SAP New GL Concept Presentation
    - SAP New GL End User Document
    - SAP Organization Structure Concept Presentation
    - SAP FI and Classical GL Configuration Document
    - SAP New GL Configuration Document
    - SAP GL End User Documents
- Complete set of SAP CO Project Documents
- Complete set of SAP FI Project Documents