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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	<u>Production Order 1002451 (for 1no of COMP1)</u>		
Cr			
		Rs !	
		!	
Goods issue of RM1	500 !	!	Rs
		!	
		!	

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



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 -

	<u>Dr</u>	<u>Production Order 1002451 (for 1no of COMP1)</u>	
<u>Cr</u>			
		Rs !	Rs
		!	
550	Goods issue of RM1	500 !	Goods receipt of Comp1
		!	
	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 –

	<u>Dr</u>	<u>P & L Account for the period ended</u>	
<u>Cr</u>			
		Rs !	Rs
		!	
550	Consumption a/c	500 !	COGM a/c
		!	
	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 :

	<u>Dr</u> P & L Account for the period ended	
<u>Cr</u>		Rs
	Rs !	
	!	
500	Consumption a/c	500 ! Increase / Decrease in WIP a/c
	!	
	!	
	!	

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

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	<u>Production Order 1002451 (for 1no of COMP1)</u>		
<u>Cr</u>				
		Rs !		Rs
		!		
550	Goods issue of RM1	600 !	Goods receipt of Comp1	
		!		
	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	<u>P & L Account for the period ended</u>		
<u>Cr</u>				
		Rs !		Rs
		!		
550	Consumption a/c COS a/c	600 ! 550 !	COGM a/c at the time of GR	



	Variance a/c	100 !	
100			at the time of Variance calc.
		_____!	
		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	
		550	GR	
100	Variance a/c	100!	Variance calc.	
		_____!		
		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:



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 –

<u>Dr</u>	<u>Production Order 1002451 (for 5nos of COMP)</u>		
<u>Cr</u>		Rs !	Rs
		!	
	Goods issue of RM	3000!	
		!	

Transaction2A : Confirmations of Activities for the Production Order

<u>Dr</u>	<u>Production Order 1002451 (for 5nos of COMP)</u>		
<u>Cr</u>		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 101 and 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



<u>Cr</u>	<u>Dr</u> Production Order 1002451 (for 5nos of COMP)		
		Rs !	Rs
		!	
	Goods issue of RM	3000!	COGM – 5 nos of COMP 2750
		!	
	Activity Cost	250!	
	(Confirmation of	!	
	operations –1 hour for each COMP) !	!	
		!	

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 –

<u>Cr</u>	<u>Dr</u> Production Order 1002546 (for 3nos of FG)		
		Rs !	Rs
		!	
	Goods issue of COMP	1650 !	
		!	

Transaction2A : Confirmations of Activities for the Production Order

<u>Cr</u>	<u>Dr</u> Production Order 1002546 (for 3nos of FG)		
		Rs !	Rs
		!	
	Goods issue of RM	1650!	
		!	
	Activity Cost	75!	
	(Confirmation of	!	
	operations –0.5hour for each FG)	!	
		!	

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 101 and 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	..		1725	
(COGM)				



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
from Variance settlement			300	675
from Lower Level Items				
from Variance Settlement				
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:

Cr	Dr	P & L Account for the period ended	
		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	!
500			Variance calc.
	From Actual Costing	<u>300</u>	200!
			!
	Cost of Sales – FG	1150!	!
		!	!
		_____!	
4975		6100!	
		===== !	
=====			
	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	=	<u>- 125</u>
Net impact	=	<u>1,075</u>



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 Annexure 1.

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, Electrical, 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

<u>Expenses</u>	<u>Planned Costs (Rs)</u>
Salaries	20,000
Depreciation	50,000
Total planned Cost for April 2001	70,000

Cost Center – Electrical Department

<u>Expenses</u>	<u>Planned Costs (Rs)</u>
Salaries	15,000
Depreciation	60,000
Electricity	3,00,000
Total planned Cost for April 2001	3,75,000

Cost Center – Cell 1

<u>Expenses</u>	<u>Planned Costs (Rs)</u>
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

<u>Expenses</u>	<u>Planned Costs (Rs)</u>
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

<u>Expenses</u>	<u>Planned Costs (Rs)</u>	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

Thro' Distributi

Thro' Assessme

Cost Center – Cell 2

<u>Expenses</u>	<u>Planned Costs (Rs)</u>	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

Thro' Distributi

Thro' Assessme

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.

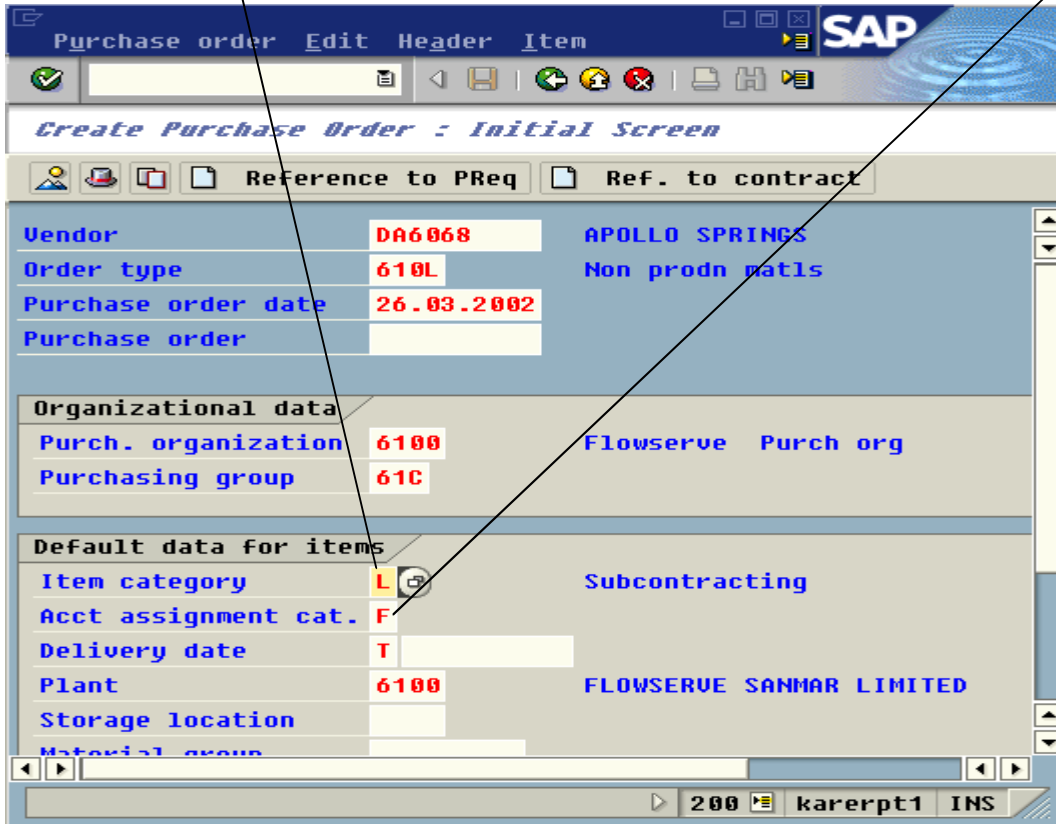
All other materials that do not have both the above characteristics will have to go for unplanned sub-contracting, ie..

- 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 through the MRP route i.e.. 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 i.e.. 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.



The screenshot shows the SAP 'Create Purchase Order : Initial Screen'. The window title is 'Purchase order Edit Header Item'. The screen is divided into several sections:

- Vendor:** DA6068 APOLLO SPRINGS
- Order type:** 610L Non prodn matls
- Purchase order date:** 26.03.2002
- Purchase order:** (empty field)
- Organizational data:**
 - Purch. organization:** 6100 Flowserve Purch org
 - Purchasing group:** 61C
- Default data for items:**
 - Item category:** L Subcontracting
 - Acct assignment cat.:** F
 - Delivery date:** T
 - Plant:** 6100 FLOWSERVE SANMAR LIMITED
 - Storage location:** (empty field)
 - Material group:** (empty field)

At the bottom of the screen, the status bar shows '200 karerpt1 INS'. Two arrows originate from the text above: one points to the 'Item category' field (L) and the other points to the 'Acct assignment cat.' field (F).



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 automatically flows from the Info-record and it shall always be "V9".

Purchase order Edit Header Item Environment System Help

Create Purchase Order : Item 00001

Acct. assgts.

Item	1	Item cat.	L	AcctAssCat	F
Material	ZBEM13000000	Matl group	S0202	Plant	6100
Short text	316SS ROD 130 MM DIA			Stor. loc.	RMS

Quantity and price

Order quantity	10	InfoUpdate	B
Net order price	10.00	INR / 1	
Qty. conversion	1	<-> 1	
		<input type="checkbox"/> Estimated price	
		<input checked="" type="checkbox"/> Print price	

Deadline monitoring

Delivery date	D 17.04.2002	Reminder	1	ConfContrK		<input type="checkbox"/> Ackn. reqd
Stat. del. date	17.04.2002	Reminder	2	Acknowl.no		
		Reminder	3	TrackingNo		
GR proc. time	2			Vend. mat.		

GR/IR control

Underdel. tol.	5.0	% Stock type	X	<input checked="" type="checkbox"/> GR
Overdeliv. tol.	10.0	%	<input type="checkbox"/> Unlimited	<input type="checkbox"/> GR non-val
Tax code	V9	Val. type	DOM	<input checked="" type="checkbox"/> IR
Shipping instr.				<input checked="" type="checkbox"/> GR-basedIV

200 karerpt1 INS

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.

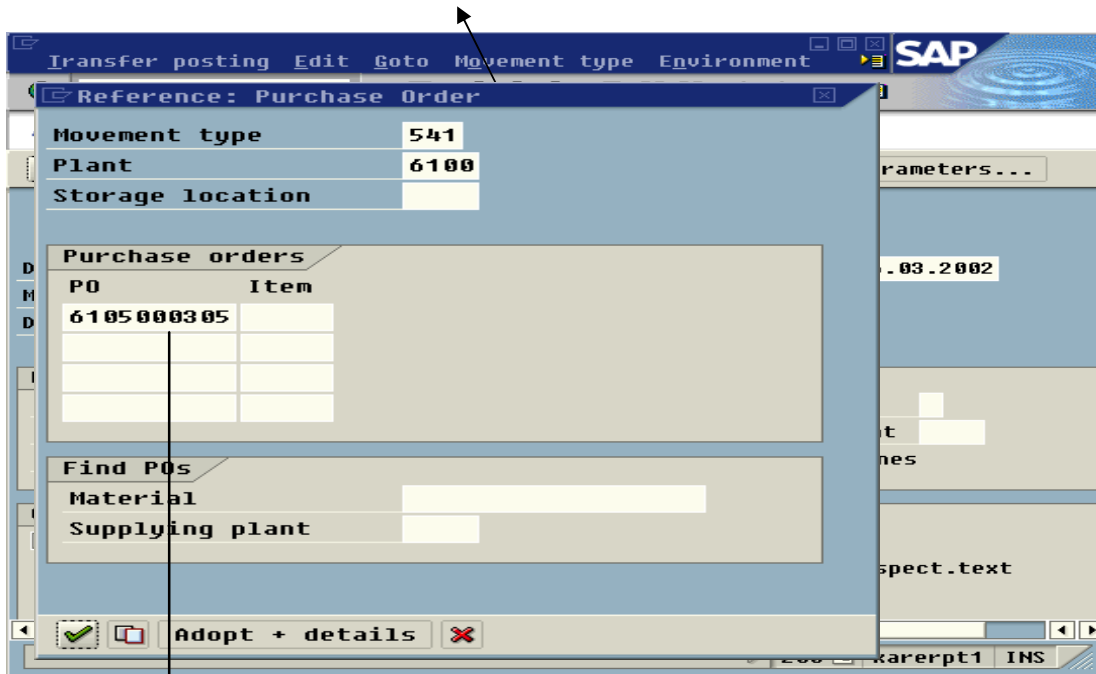
On pressing "Enter" again, a warning message occurs, saying that there is a "Recursiveness". This means that the system has sensed that the material that is going out is the same as the material that is coming in as well. Type "Enter" again to ignore the message and press the "Back" icon. Immediately 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".



The screenshot shows the SAP MB1B transaction interface. At the top, the menu bar includes 'Transfer posting', 'Edit', 'Goto', 'Movement type', and 'Environment'. The main window title is 'Reference: Purchase Order'. Below this, the following fields are populated:

- Movement type: 541
- Plant: 6100
- Storage location: (empty)

Below these fields is a table titled 'Purchase orders' with the following data:

PO	Item
6105000305	

Below the table is a section titled 'Find POs' with the following fields:

- Material: (empty)
- Supplying plant: (empty)

At the bottom of the window, there is a toolbar with a checkmark icon, a red 'X' icon, and the text 'Adopt + details'.

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 J11F01. 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).

Challan Edit Goto SAP

Challan Edit Goto System Help SAP

Subcontracting Challan - Create

Excise Invoice Selection

Posting Overview Org. Data Additional Data Text

Basic duty 0.00 Posting date & time 26.03.2002 14:04:02
Special duty 0.00 Subcontr RetDt 22.09.2002
Additional duty 0.00
 Print Immediately

Item Overview Quantity Overview Additional Data

Item	Material	Mat...	Description	P...	S...	Qty	i
1	2BEM13000000		316SS ROD 130 MM DIA	6100	RMS	10.00	

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Press "Enter". The system automatically 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.

Challan Edit Goto System Help

Subcontracting Challan - Create

Excise Invoice Selection

Posting Overview Org. Data **Additional Data** Text

Basic duty 0.00 Posting date & time 26.03.2002 14:40:51
Special duty 0.00 Subcontr RetDt 22.09.2002
Additional duty 0.00
 Print Immediately

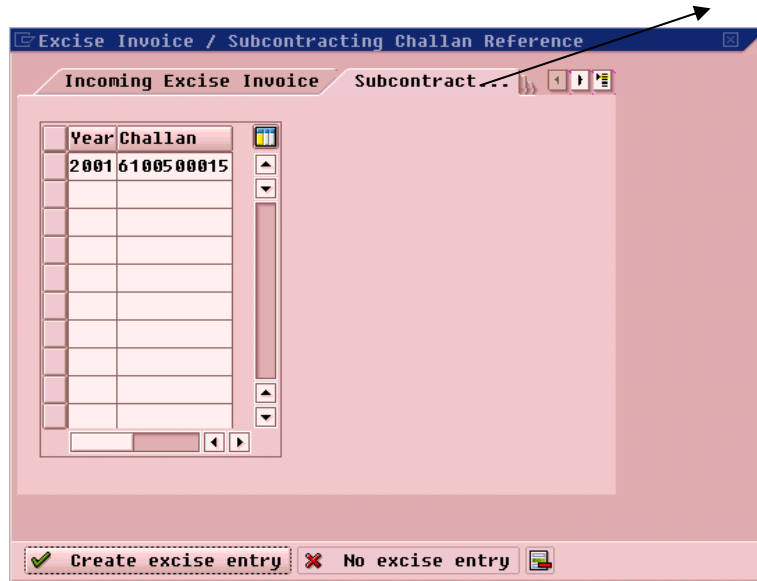
Item Overview Quantity Overview **Additional Data**

Item	Material	Addl. value1	Addl. value2
1	ZBEM13000000	10	

200 karerpt1 OUR

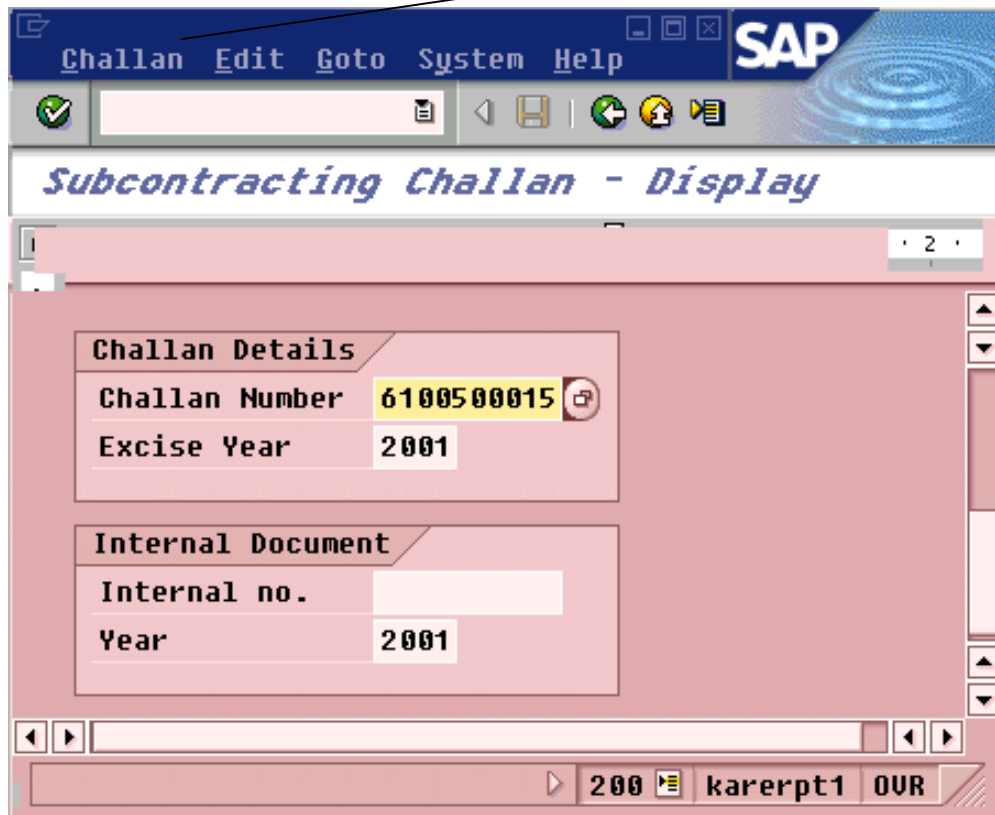
Currently only the field Additional Value 1 will be filled. Save the document. Note the Challan number in the Purchase Order copy. The challan can be printed through transaction ZMMO24.

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.

Challan Edit Goto System Help

Subcontracting Challan - Change

Challan Number 6100500015 Excise year 2001

Posting Overview Org. Data Additional Data Text

Basic duty 0.00 Posting date & time 26.03.2002 14:40:51
Special duty 0.00 Subcontr RetDt 22.09.2002
Additional duty 0.00
 Print Immediately

Item Overview Quantity Overview Additional Data

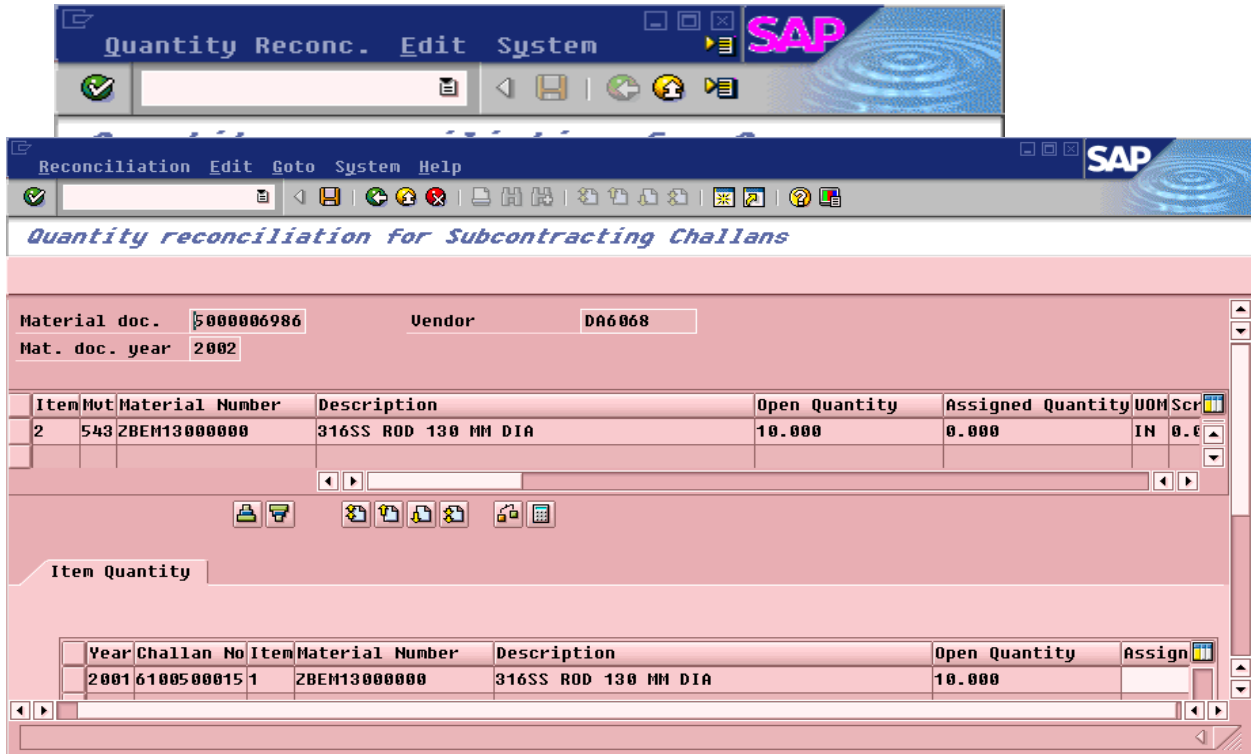
Item	Material	Addl. value1	Addl. value2
1	ZBEM13000000	10.00	8.00

TR1 (1) (200) karerpt1 OUR

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 J11FQ.



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.



Reconciliation Edit Goto System Help SAP

Quantity reconciliation For Subcontracting Challans

Material doc. 5000006986 Vendor DA6068
Mat. doc. year 2002

Item	Mvt	Material Number	Description	Open Quantity	Assigned Quantity	UOM	Scr
2	543	ZBEM13000000	316SS ROD 130 MM DIA	10.000	10.000	IN	0.0

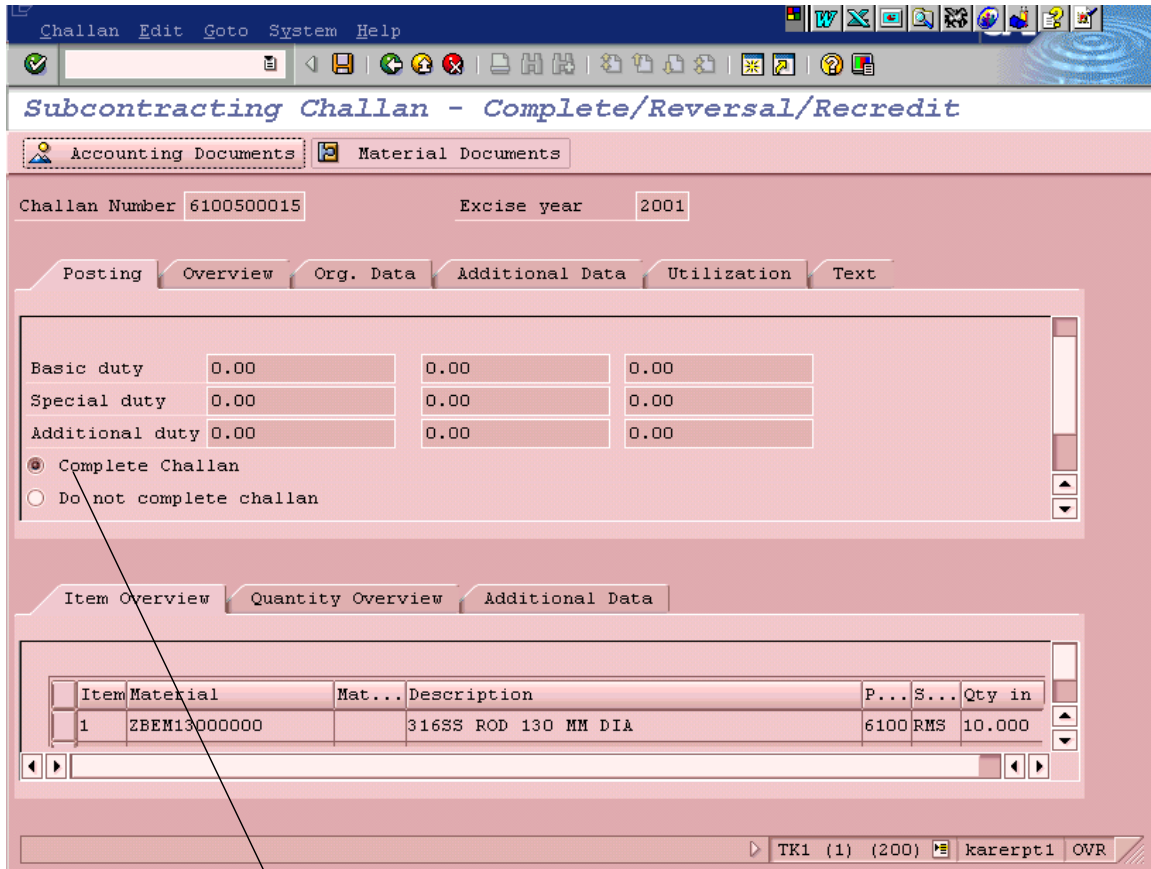
Item Quantity

Year	Challan No	Item	Material Number	Description	Open Quantity	Assign
2001	6100500015	1	ZBEM13000000	316SS ROD 130 MM DIA	10.000	10.000

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 Consmpthn 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 Consmpntn 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.



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