



Subcontracting Process in SAP



SAP Knowledge Hub

We Are Here to Boost Your Career

Corporate Training || Classroom Training || Outsourcing



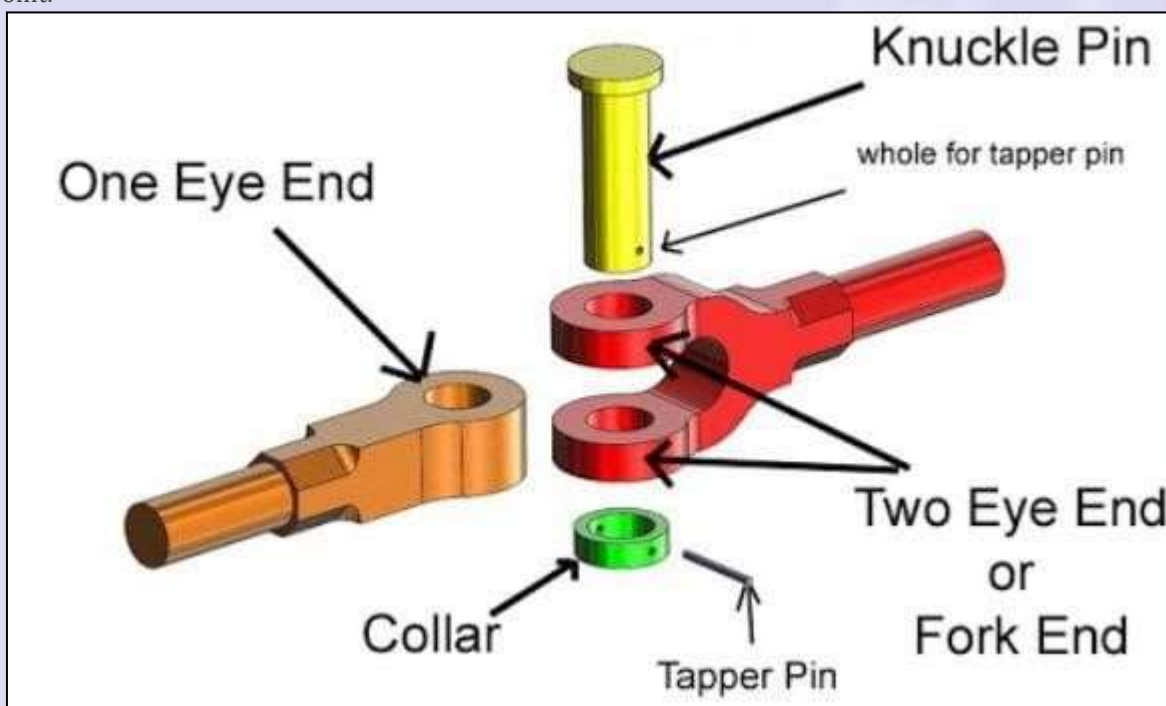
SUBCONTRACTING PROCESS

What is subcontracting process?

In subcontracting process, when a company outsources parts of its manufacturing to subcontracting vendor. It's being processed by subcontracting vendor; convert it to semi-finished or finished material and deliver back to the company.

Example with subcontracting process Scenario:-

Customer order 100 numbers of knuckle joint. Company is giving 100 knuckle joint parts to subcontractor vendor for assembly of knuckle joint.



Parts of knuckle joint:-

1. One eye end
2. Two eye end
3. Knuckle pin
4. Collar
5. Taper pin

Bill of material:-

SI No.	PARTS	QUANTITY	MATERIAL	PRICE
1	One eye end	1	SS	450/-
2	Two eye end	1	SS	750/-
3	Knuckle pin	1	SS	200/-

4	Collar	1	SS	80/-
5	Taper pin	1	SS	20/-

Detail of Scenario :-

100 numbers Knuckle joint Parts produced in a company is outsourced to subcontractor for assembly. The subcontractor will assemble all the parts of knuckle joint and return it to the company. The company will pay only service charges to the vendor.

Procedure of subcontracting process in SAP:-

1.Create material:-

Create parent material and child material of knuckle joint using material creation Tcode MM01.

Parent Material -270856 - knuckle joint

Child Material 1- 9449570431 - One eye end

Child Material 2- 9449570439- Two eye end

Child Material 3- 9449570446- Knuckle pin

Child Material 4- 9449570447- Collar

Child Material 5- 9449570448- Taper pin

Created material list in SAP with price details:-

Material	Plant	Val. Type	Description	Last Change	MTyp	Matl Group	B.	PGr	ABC	Typ	Val	CI	Pr.	Price	Crcy	/	Created by
270856	0190		Knuckle joint	03.11.2022	ZNIK	00101	EA	001			7920	S	1,500.00	EUR	1		NEWMM92
9449570431	0190		One eye end	03.11.2022	HALB	00101	EA	001			7900	V	450.00	EUR	1		NEWMM92
9449570439	0190		Two eye end		HALB	00101	EA	001			7900	V	750.00	EUR	1		NEWMM92
9449570446	0190		Knuckle pin		HALB	00101	EA	001			7900	V	200.00	EUR	1		NEWMM92
9449570447	0190		Collar		HALB	00101	EA	001			7900	V	80.00	EUR	1		NEWMM92
9449570448	0190		Taper pin		HALB	00101	EA	001			7900	V	20.00	EUR	1		NEWMM92

2.Create vendor:-

Create vendor for subcontracting process using Tcode XK01.

Vendor -7000000372

3.Create Bill of material :-

Create Bill of material for knuckle joint which includes quantity of parts required for knuckle joint assembly and these detail used while creating purchase order. Tcode used to create BOM is CS01.

Material	270856	Knuckle joint
Plant	0190	Galaxy Musicals US Plant
Alternative BOM	1	

Material									
Item	ICt	Component	Component description	Quantity	Un	Asm	Sls	Valid From	Valid to
<input type="checkbox"/>	0010	L 9449570431	One eye end	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	03.11.2022	31.12.9999
<input type="checkbox"/>	0020	L 9449570439	Two eye end	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	03.11.2022	31.12.9999
<input type="checkbox"/>	0030	L 9449570446	Knuckle pin	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	03.11.2022	31.12.9999
<input type="checkbox"/>	0040	L 9449570447	Collar	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	03.11.2022	31.12.9999
<input type="checkbox"/>	0050	L 9449570448	Taper pin	1	EA	<input type="checkbox"/>	<input type="checkbox"/>	03.11.2022	31.12.9999

4. Create purchase info record :-

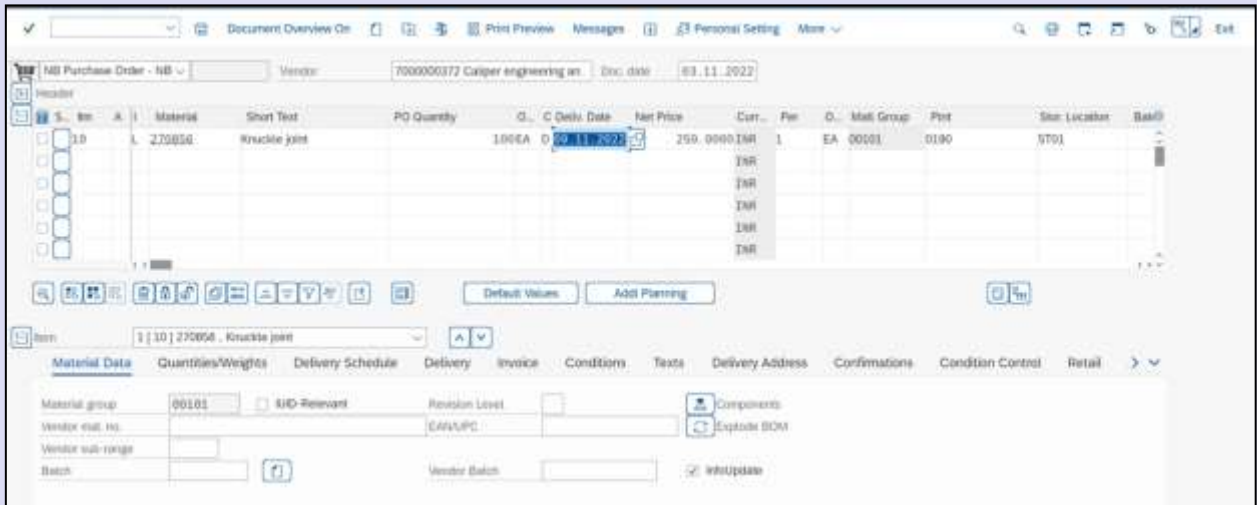
Here we create subcontracting PIR for a parent material that is Knuckle joint. This subcontracting PIR includes service charges for Subcontractor vendor. In this scenario service charges is INR 250/- for one assembly of knuckle joint. PIR is created using Tcode ME11.

Purchasing info record number - 898555110

Vendor	7000000372 Caliper engineering and lab pvt ltd								
Material	Material Short Text			Info Rec.			De		
P.Org	InfoCat	Plnt	PGp	Plan	Time	Minimum Qty	Un	Var	
Price	Origin	Net Price	Currency	Qty	Un	Document	Item	QDp	
00000000000000	270856	Knuckle joint				898555110			
<input type="checkbox"/>	1000	Subcontracti	0190	001	5 Days	0	EA		
Condition		250.0000		INR		1 EA	Net		31.12.9999
Pur. Order		250.0000		INR		1 EA	4500027205	00010	03.11.2022

5. create purchase order :-

Here we create purchase order for Knuckle joint parent material. This parent material includes all child parts. In this PO price included is the service charges for subcontracting process. The service charge for each assembly of knuckle joint is INR 250/- hence total value of PO for 100 numbers knuckle joint assembly is INR 25000/- . PO creation is done using Tcode ME21N.



Purchase Order number 4500027205

6. Issue material to the vendor:-

In this step we are issuing knuckle joint child material to the vendor to complete assembly process. 100 numbers of knuckle joint parts is issued to the subcontracting vendor and through this process we are keeping record of issuing material. Issuing material is done through Tcode ME20. Before issue of a material :-

Vendor: 700000372 Caliper engineering and lab pvt ltd Mangalore

Material	Plnt	Short Text	Batch	Req/Receipt qty	SC Stock Available	SC Stock
9449570431	0190	One eye end		100 EA	0 EA	100 EA
9449570439	0190	Two eye end		100 EA	0 EA	100 EA
9449570446	0190	Knuckle pin		100 EA	0 EA	100 EA
9449570447	0190	Collar		100 EA	0 EA	100 EA
9449570448	0190	Taper pin		100 EA	0 EA	100 EA

After issue of material

Vendor 7000000372 Caliper engineering and lab pvt ltd Mangalore

Material	Plant Short Text	Batch	Req./Receipt qty	SC Stock Available	SC Stock
0449570431	0190 One eye end		100 EA	100 EA	0 EA
Requirements via SC Orders					
0449570439	0190 Two eye end		100 EA	100 EA	0 EA
Requirements via SC Orders					
0449570446	0190 Knuckle pin		100 EA	100 EA	0 EA
Requirements via SC Orders					
0449570447	0190 Collar		100 EA	100 EA	0 EA
Requirements via SC Orders					
0449570448	0190 Taper pin		100 EA	100 EA	0 EA
Requirements via SC Orders					

Supplied child material quantity in warehouse:-

Material	Material Description	Plant Name 1	Unrestricted Unit	Transit/Transf.	In Quality Insp.	Restricted-Use	Blocked	Returns
Sloc	SL		Total Value	Total Value	Total Value	Total Value	Total Value	Total Value
0449570431	One eye end	0190 Galaxy Musicals US Plant						
ST01	0 EA		0.00 EUR	0.00	0.00	0.00	0.00	0.00
0449570439	Two eye end	0190 Galaxy Musicals US Plant						
ST01	0 EA		0.00 EUR	0.00	0.00	0.00	0.00	0.00
0449570446	Knuckle pin	0190 Galaxy Musicals US Plant						
ST01	0 EA		0.00 EUR	0.00	0.00	0.00	0.00	0.00
0449570447	Collar	0190 Galaxy Musicals US Plant						
ST01	0 EA		0.00 EUR	0.00	0.00	0.00	0.00	0.00
0449570448	Taper pin	0190 Galaxy Musicals US Plant						
ST01	0 EA		0.00 EUR	0.00	0.00	0.00	0.00	0.00
* Total:			0.00 EUR	0.00	0.00	0.00	0.00	0.00

Stock of knuckle joint parts shown in Tcode MMBE (list of warehouse stocks) after issuing to vendor :-

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use
Full	
1000 IDES AG	
0190 Galaxy Musicals US Plant	
Stock Provided to Vendor	100.000

The parent material will be in on-order stock because material is being processed:-

✓ [Dropdown] [Icons] Cancel

Selection

Material: 270856 Knuckle joint
 Material Type: ZNIK Finished product STD re
 Unit of Measure: EA Base Unit of Measure: EA

Stock Overview

[Icons] Detailed Display

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation	On-Order Stock
Full					100.000
1000 IDES AG					100.000
0190 Galaxy Musicals US Plant					100.000
ST01 Instruments					100.000

7.Receiving material from vendor :-

In this step after the assembly of knuckle joint is completed parts are received from the vendor. While receiving material good receipt is done for documentation purpose and for payment.GR is done using Tcode MIGO.

Movement types involved while receiving a goods are:-

101- 100 numbers Assembled Knuckle joint(parent material) is received through 101 movement type.

543-100 numbers Knuckle joint parts(child material) consumed for assembly is show through movement type 543

A01 Goods Receipt | R01 Purchase Order | Plant | GR goods receipt | 101

General Vendor

Document Date: 04.11.2022 | Delivery Note: | Vendor: Caliper engineering and lab pv
 Posting Date: 04.11.2022 | Bill of Lading: | HeaderText:
 3 Collective Slip | GR/GI Slip No.:

Line	Mat. Short Text	OK	Qty in UnE	EUn	Sloc	Cost Center	M.. D	Stock Type	Order
1	Knuckle joint	<input type="checkbox"/>	100	EA	Instruments		101	Unrestricted	
1	One eye end	<input type="checkbox"/>	100	EA			543	Unrestricted	
1	Two eye end	<input type="checkbox"/>	100	EA			543	Unrestricted	
1	Knuckle pin	<input type="checkbox"/>	100	EA			543	Unrestricted	
1	Collar	<input type="checkbox"/>	100	EA			543	Unrestricted	
1	Taper pin	<input type="checkbox"/>	100	EA			543	Unrestricted	

Material document number 9899000802

s

After receiving knuckle joint (parent material) stock is added to warehouse:-

✓ [Dropdown] [Icons] Cancel

Selection

Material: 270856 nuckle joint
 Material Type: ZNIK Finished product STD re
 Unit of Measure: EA Base Unit of Measure: EA

Stock Overview

[Icons] Detailed Display

Client/Company Code/Plant/Storage Location/Batch/Special Stock	Unrestricted use	Qual. inspection
Full	100.000	
1000 IDES AG	100.000	
0190 Galaxy Musicals US Plant	100.000	
ST01 Instruments	100.000	

Accounting details :-

- 1.BSX-For finished product with the value of BOM components + subcontract services.
- 2.VRX-for subcontract services GR/IR clearing account
- 3.BSV-for finished product-change in stock account (used in subcontracting process to balance out the factory/subcontractor output)
- 4.FRL-for subcontract services of offset GR/IR clearing account.
- 5.BSX-for BOM component inventory posting.
- 6.GBB-for subcontract services-consumption of BOM components provided to subcontractor.

Data Entry View

Document Number: 100000798 Company Code: 1000 Fiscal Year: 2022
 Document Date: 04.11.2022 Posting Date: 04.11.2022 Period: 11
 Reference: Cross-Comp.No.:
 Currency: INR Texts exist: Ledger Group:

[Icons]

Co.	Item	PK	St Account	Di	Ac	Ty	Trs	Description	Amount	Curr.	Amount in LC	BusA	Profit Center	Segment
1000	1	86	300000	S	S			BSX Inventory - Raw Mate	150,000.0000	INR	150,000.00			
	2	96	4000002	H	S			WRX GR/IR Account	25,000.0000-	INR	25,000.00-			
	3	91	400000	H	S			BSV Consumptn, raw mat.1	150,000.0000-	INR	150,000.00-	9900	1402	SERV
	4	86	400020	S	S			FRL Raw mat. consum	25,000.0000	INR	25,000.00	9900	1402	SERV

Data Entry View

Document Number: 100000707 Company Code: 1000 Fiscal Year: 2022
 Document Date: 04.11.2022 Posting Date: 04.11.2022 Period: 11
 Reference: Cross-Comp.No.:
 Currency: EUR Texts exist: Ledger Group:

Co. *	Item	PK	SC Account	D/ Ac T Ty	Trs	Description	Amount Curr.	Amount in LC	BusA	Profit Center	Segment
1000	1	96	300000	H S	BSX	Inventory - Raw Mate	45,000.00- EUR	45,000.00-			
	2	81	232000	S S	GBB	Losses - material pr	45,000.00 EUR	45,000.00	9900	1402	SERV
	3	96	300000	H S	BSX	Inventory - Raw Mate	75,000.00- EUR	75,000.00-			
	4	81	232000	S S	GBB	Losses - material pr	75,000.00 EUR	75,000.00	9900	1402	SERV
	5	96	300000	H S	BSX	Inventory - Raw Mate	20,000.00- EUR	20,000.00-			
	6	81	232000	S S	GBB	Losses - material pr	20,000.00 EUR	20,000.00	9900	1402	SERV
	7	96	300000	H S	BSX	Inventory - Raw Mate	8,000.00- EUR	8,000.00-			
	8	81	232000	S S	GBB	Losses - material pr	8,000.00 EUR	8,000.00	9900	1402	SERV
	9	96	300000	H S	BSX	Inventory - Raw Mate	2,000.00- EUR	2,000.00-			
	10	81	232000	S S	GBB	Losses - material pr	2,000.00 EUR	2,000.00	9900	1402	SERV

7. Invoice verification:-

In this process invoice verification is done for service charges to be paid for subcontractor vendor. Invoice verification is done using Tcode MIRO.

