



Production Planning End User Manual



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Process order Execution

last modified on May 06, 2021



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Objective

This document will explain Process order Execution in Production Planning (PP) for Overburden(OB) Shovel Dumper Departmental Process.

Prerequisites

Authorizations must be available in SAP.

PP Master Data.



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Process

STEP 1- Create Monthly Process Order

T-Code - COR1 – Create Process order

The screenshot shows the SAP 'Create Process Order: Initial Screen' for transaction ECD(1)/105. The screen has a title bar with the text 'ECD(1)/105 Create Process Order: Initial Screen'. Below the title bar is a toolbar with various icons. The main area contains several input fields. The 'Material Number' field is highlighted with a red box and contains the value '4200000010'. The 'Production Plant' field is also highlighted with a red box and contains the value '2006'. The 'Planning Plant' field is empty. The 'Process Order Type' field is highlighted with a red box and contains the value 'Z0BS'. The 'Process Order' field is empty. Below these fields is a 'Copy from' section with a 'Process Order' field and a button with a green arrow. The bottom status bar shows 'ECD (1) 105' and 'DELCLSAPECD INS'.

- Enter your Material Number
- Enter your Plant No
- Enter your Process Order Type then Press Enter.



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- Enter the Quantity of the material
- Enter Start Date(Current Date should be mention).
- Enter End Date(Month End Date) then Press Enter.

Create Process Order: Header - General Data

Material: 4200000010 Over Burden Type: ZOBS Plant: 2006

Status: [Info]

General Data | Assignment | Goods Recpt | Control | Dates/Qties | MasterData | Administr. | Items

Quantities

Total Qty: 20000 M3 Short/Exc. Rec.: 0

Delivered: 0

Dates/Times

Basic Dates: End: 31.05.2021 24:00:00 Start: 05.05.2021 00:00:00

Scheduled: [] 00:00:00

Confirmed: [] 00:00:00

Release: []

Scheduling

Type: 3 Only capacity require. Reduction: []

Floats

Sched. Margin Key: 000 Float Before Prodn: [] Workdays

- Select Your Production Version Then Press Choose button as mention below.

Create Process Order: Header - General Data

Material: 4200000010 Over Burden Type: ZOBS Plant: 2006

Status: [Info]

General Data | Assignment | Goods Recpt | Control | Dates/Qties | MasterData | Administr. | Items

Quantities

Total Qty: 20000 M3 Short/Exc. Rec.: 0

Delivered: 0

Dates/Times

Basic Dates: End: 31.05.2021 24:00:00 Start: 05.05.2021 00:00:00

Scheduled: [] 00:00:00

Confirmed: [] 00:00:00

Release: []

Scheduling

Type: 3 Only capacity require. Reduction: []

Floats

Sched. Margin Key: 000 Float Before Prodn: [] Workdays

ECD(1)/105 Select Production Version for Material 4200000010 Plant 2006

Production	Plant	Short Text for Prod. Version
PV02	2006	Departmental OB
PV03	2006	Hired OB (Loading and Hauling)
PV04	2006	Departmental Unblasted OB
PV05	2006	Hired OB (Drilling, Loading and Hauling)
PV06	2006	Departmental Soft-Over_Burden
PV07	2006	Outsourced Unblasted OB
PV08	2006	Departmental-Dragline- Over_Burden
PV10	2006	TEST 040521

[Choose] [Versions: overview] [Order]



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- After That Press Save Button.

Create Process Order: Header - General Data

Material: 4200000010, Over Burden, Type: ZOBS, Plant: 2006

Quantities: Total Qty: 20000, Delivered: 0

Dates/Times: End: 31.05.2021, Start: 05.05.2021

Scheduling: Type: 3 Only capacity require.

- Note the Unique Process order Number that will be generated as mention below after saving.

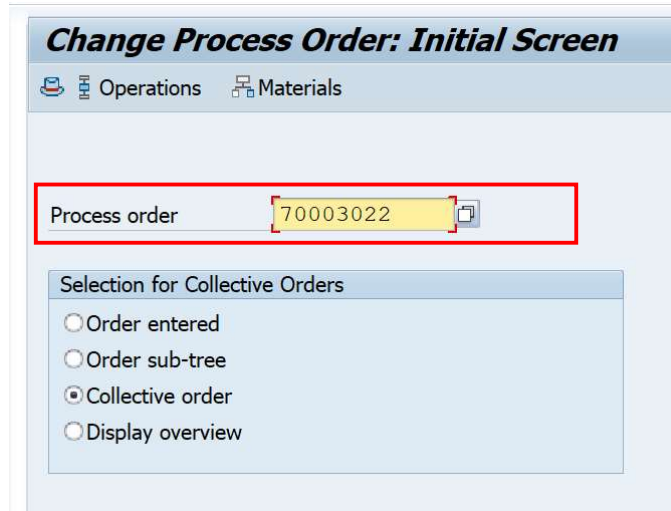
Create Process Order: Initial Screen

Material Number: 4200000010, Production Plant: 2006, Process Order Type: ZOBS

Process order 70003022 created

STEP 2- Release of Monthly Process Order

T-Code – COR2 – Change Process order



Change Process Order: Initial Screen

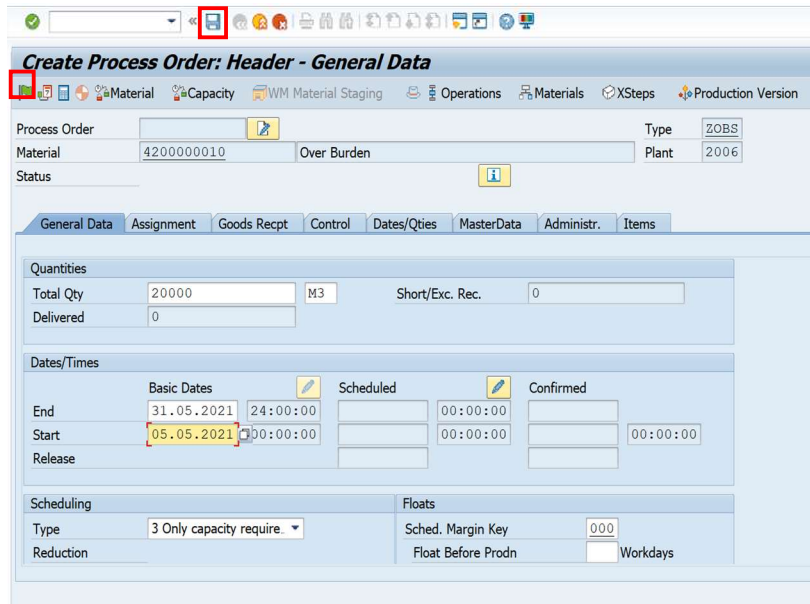
Operations Materials

Process order 70003022

Selection for Collective Orders

- ☐ Order entered
- ☐ Order sub-tree
- ☒ Collective order
- ☐ Display overview

- Enter the Process order number then Press Enter.
- After that click on the Release button then Save  it .



Create Process Order: Header - General Data

Material 4200000010 Over Burden Plant 2006

Process Order Type ZOBS

Status

General Data Assignment Goods Recpt Control Dates/Qties MasterData Administr. Items

Quantities

Total Qty 20000 M3 Short/Exc. Rec. 0

Delivered 0

Dates/Times

Basic Dates Scheduled Confirmed

End 31.05.2021 24:00:00 00:00:00

Start 05.05.2021 00:00:00 00:00:00 00:00:00

Release

Scheduling

Type 3 Only capacity require. Reduction

Floats

Sched. Margin Key 000 Float Before Prodn Workdays

- Process order will be saved  Process order 70003022 saved and message will be shown.



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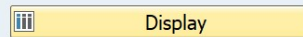


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STEP 3 - Transfer of control recipe data to PI sheet using control recipe monitor

T-Code – CO53 – Control Receipt monitor

- Enter your Plant No
- Enter your Process Order Number
- Then click on Display button



Control Recipe Monitor: Initial Screen

Plant

Selection Criteria for Creation Period

Creation Date			
From	05.05.2021	Time	00:00:00
To	05.05.2021	Time	24:00:00

Information on Productive Control Recipes

	Created, Sent	0	
	Executed	0	
	Terminated, Discarded	0	

Additional Selection Criteria

Destination Address

Process Order

Status	Mode
☒ Created	☒ No Test
☒ Sent	☐ Test
☒ Executed	☐ All
☒ Terminated	
☒ Discarded	

- Click on Select all button as per mention below.

Control Recipe Monitor: Overview

Plant: 2006
Process Order: 000070003022
Status: Created Sent Executed Terminated Discarded

	Except	Control recipe	Process order	CRD	Destination Address	Status	Test	Created On	Created at
		100000000000018487	70003022	DB	PRODUCTION MINE- BLAST	Created	☐	05.05.2021	13:37:58
		100000000000018488	70003022	LH	PRODUCTION MINE- LOAD HAUL	Created	☐	05.05.2021	13:37:58
		100000000000018489	70003022	SI	PRODUCTION MINE- SHIFT INCH	Created	☐	05.05.2021	13:37:58



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- Then click on the send button.

Control Recipe Monitor: Overview

Log **Send**

Plant: 2006
Process Order: 000070003022
Status: Created Sent Executed Terminated Discarded

Except	Control recipe	Process order	CRD	Destination Address	Status	Test	Created On	Created at
	100000000000018487	70003022	DB	PRODUCTION MINE- BLAST	Created	☐	05.05.2021	13:37:58
	100000000000018488	70003022	LH	PRODUCTION MINE- LOAD HAUL	Created	☐	05.05.2021	13:37:58
	100000000000018489	70003022	SI	PRODUCTION MINE- SHIFT INCH	Created	☐	05.05.2021	13:37:58

- After clicking the refresh button , status will be change from created to sent.

Control Recipe Monitor: Overview

Log **Send** 

Plant: 2006
Process Order: 000070003022
Status: Created Sent Executed Terminated Discarded

Except	Control recipe	Process order	CRD	Destination Address	Status	Test	Created On	Created at
	100000000000018487	70003022	DB	PRODUCTION MINE- BLAST	Sent	☐	05.05.2021	13:37:58
	100000000000018488	70003022	LH	PRODUCTION MINE- LOAD HAUL	Sent	☐	05.05.2021	13:37:58
	100000000000018489	70003022	SI	PRODUCTION MINE- SHIFT INCH	Sent	☐	05.05.2021	13:37:58



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STEP 4 - Shift Wise PI sheet entry.

T-Code – CO60 – Find PI sheet

- Maintain Plant and Process Order Number.
- Then Click on Execute Button 

Find PI Sheet

Plant to 

Control Recipe to 

Processor Group to 

Ctrl Rec.Destination to 

Created On to 

Created at to 

Max. number of PI sheets

Mode

☒ No Test

☐ Test

☐ All

Status

☒ New Hours

☒ In Process

Process Order

Process order to 

Resource to 

Basic Start Date to 

Basic finish date to 

Scheduled start to 

Scheduled finish to 

- Select the 2nd PI sheet for filling drilling information and click on the edit PI sheet button as mention as shown below.

Find PI Sheet

Process order	Processor Group	Earl.start date	Status	M. Material number	Material description	
70003022	PRODUCTION MINE- BLAST	05.05.2021	New	4200000010	Over Burden	1000
70003022	PRODUCTION MINE- LOAD HAUL	05.05.2021	New	4200000010	Over Burden	1000
70003022	PRODUCTION MINE- SHIFT INCHARGE	05.05.2021	New	4200000010	Over Burden	1000



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- Fill the correct Information in PI sheet.

Process Manufacturing Cockpit ACCNDS9931

PI Sheet-Change
Process Order:70003022 Material Number:4200000010 >>
Change -> Displ. Save Complete Print Create comment

Phase0060

Work Instructions

PROCESS ORDER 70003022
PLANT 2006
MATERIAL 4200000010
OPERATION 0060
PRODUCTION START DATE 05.05.2021
PRODUCTION DATE 05.05.2021
CONFIRMATION COUNTER

DRILLING INFORMATION

LOCATION	RESOURCE_DRILL	DRILL_OPERATOR	HELPER NAME	OPERATING TIME	BREAKDOWN TIME	HOLES DRILLED	AVG. METERS DRILLED	CALCULATE	POWER_CONSUME
QUARRY 1/OB BENCH1	6010401	RAMESH	697667	180 mi		50	6.000 m	CALCULATE	30.000
								CALCULATE	0.000

Loading Information

ATOR_EXCAVATOR_OPERATOR	HELPER NAME	OPERATING TIME	BREAKDOWN TIME	CALCULATE	POWER CONSUMED	REMARKS
12345678	597666	120 mi		CALCULATE	40.000	NA
				CALCULATE	0.000	NA

Loading-Hauling Information

ACE_EXCAVATOR_RESOURCE_DUMPER	DUMPER_OPERATOR	OPERATING TIME	BREAKDOWN TIME	NO. OF TRIPS	CALCULATE HAULAGE	DUMPER FACTOR	OS PRODUCED
D11143	597872	120 mi		6	CALCULATE HAULAGE	15.0000	90.000
					CALCULATE HAULAGE		0.000

Other Related Information

PRODUCTION DATE	SHIFT/RELAY	Line No	REASONS: LOSS OF PRODUCTION	RAINFALL DATA	TEMPERATURE	TIME OF ACCIDENT	ACCIDENT TYPE	PLACE OF ACCIDENT	CAUSE OF ACCIDENT	TY
			NA	0.00 m	0	00:00:00	NA	NA	NA	NA

SELECT OPTION* SEND

SEND TO DATABASE

MESSAGE_DRILL 1 Records Saved Successfully

- Send the data to database.

SELECT OPTION* SEND

SEND TO DATABASE

MESSAGE_DRILL 1 Records Saved Successfully

MESSAGE_LOAD 1 Records Saved Successfully

MESSAGE_LOAD_HAUL 1 Records Saved Successfully

MESSAGE_MISC 0 Records Saved Successfully



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- Comeback  and select the 1st sheet. For blasting Information.

Find PI Sheet						
PI Sheet 						
Process order	Processor Group	Earl.start date	Status	M.	Material number	Material description
70003022	PRODUCTION MINE- BLAST	05.05.2021	New	◆	4200000010	Over Burden
70003022	PRODUCTION MINE- LOAD HAUL	05.05.2021	In process	◆	4200000010	Over Burden
70003022	PRODUCTION MINE- SHIFT INCHARGE	05.05.2021	New	◆	4200000010	Over Burden

- Fill the Required Blasting detail and save it.

Process Manufacturing Cockpit ACCNDS9931

PI Sheet-Change
Process Order:70003022 Material Number:4200000010 >>
Change -> Displ. Save Complete Print Create comment

Phase0040

Work Instructions

PROCESS ORDER	70003022
PLANT	2006
MATERIAL	4200000010
OPERATION	0040
ORDER START DATE	05.05.2021
BLASTING_DATE*	05.05.2021
BLASTING_SHIFT*	SF1A

K_HOLES	HOLES_CHARGED	HOLES_BLASTED	HOLES_DAMAGED	BLAST_LABOUR	AVG. SPACING	BURDEN	EXPLOSIVE_BATCH	DAMAGE_REASON	SAVE	EXCEPTION MESSAGE
40	38	2	6	2.00 m	3.00 m	TEST02	NA	NA	SAVE	Data Saved successfully



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STEP 5 - Production confirmation shift wise.

- Navigate to 3rd PI Sheet for Production Confirmation.

Find PI Sheet						
PI Sheet	PI Sheet					
Process order	Processor Group	Earl.start date	Status	M...	Material number	Material description
70003022	PRODUCTION MINE- BLAST	05.05.2021	To be completed	◆	4200000010	Over Burden
70003022	PRODUCTION MINE- LOAD HAUL	05.05.2021	In process	◆	4200000010	Over Burden
70003022	PRODUCTION MINE- SHIFT INCHARGE	05.05.2021	New	◆	4200000010	Over Burden

- Maintain Production Date, Shift & Select Operation on recall and click on the REFRESH/RECALL button.

Process Manufacturing Cockpit ACCNDS9931

PI Sheet-Change
Process Order: 70003022 Material Number: 4200000010 >>
Change -> Displ. Save Complete Print Create comment

Phase 0080

Work Instructions

PROCESS ORDER: 70003022
PLANT: 2006
MATERIAL: 4200000010
OPERATION: 0080
PRODUCTION DATE*: 05.05.2021
SHIFT/RELAY*: SF1A
SELECT OPERATION*: RECALL
RECALL/REFRESH

DRILLING INFO- (Read Only)

LOCATION	RESOURCE_DRILL	OPERATOR NAME	HELPER NAME	OPERATING TIME	HOLES DRILLED	METERS DRILLED	POWER_KWH
QUARRY 1/OB BENCH1	6010401	RAMESH	697667	180 min	50	6.000 m	30.000 kW.h

- Scroll down and select the simulation mode on S and click on **SIMULATE/CONFIRM PO** button to simulate.

Confirmation Entry								
SIMULATION MODE	SIMULATE/CONFIRM PO	TOTAL YIELD	LABOUR_MINE	POWER_MINE	FUEL_MINE	MACHINE_MINE	OH_MINE_OB	OUTPUT MESSAGE
S	SIMULATE/CONFIRM PO	90.000 m3	88.0000	70.0000	0.0000	7.0000	90.0000	Simulation carried out Success

- Similarly, select the simulation mode on X and click on **SIMULATE/CONFIRM PO** button for conformation.

Confirmation Entry								
SIMULATION MODE	SIMULATE/CONFIRM PO	TOTAL YIELD	LABOUR_MINE	POWER_MINE	FUEL_MINE	MACHINE_MINE	OH_MINE_OB	OUTPUT MESSAGE
X	SIMULATE/CONFIRM PO	90.000 m3	0.0000	0.0000	0.0000	0.0000	0.0000	Confirmation sucessfull



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STEP 6 - Shift Note generation.

- Fill the message you want to send on Message text and click on button to generate shift note.

Create Shift Note

Process Manufacturing Cockpit ACCNDS9931

Process Order: 70003022 Material Number: 4200000010 >>

Change -> Display Save Complete Print Create comment

OB PRODUCED	SCRAP QTY.	POWER CONSUMED	DRILLING TIME	LOADING TIME	HAULING TIME	BLAST LABOUR
90.000 m3	0.000 m3	70.000 kW.h	3.000 hrs	2.000 hrs	2.000 hrs	6 P.

Confirmation Entry

SIMULATION MODE	SIMULATE/CONFIRM PO	TOTAL YIELD	LABOUR_MINE	POWER_MINE	FUEL_MINE	MACHINE_MINE	OH_MINE_OB	OUTPUT MESSAGE
X	SIMULATE/CONFIRM PO	90.000 m3	0.0000	0.0000	0.0000	0.0000	0.0000	Confirmation successful

MESSAGE TEXT: * Ok

CONFIRMATION NUMBER 0000261248

CONFIRMATION COUNTER 00000001

POSTING DATE 05.05.2021

SHIFT NOTE NUMBER

Create Shift Note

Shift Note 001300000355 create

- Shift note will be generated as per shown above on shift note number.
- TO display generated shift note.

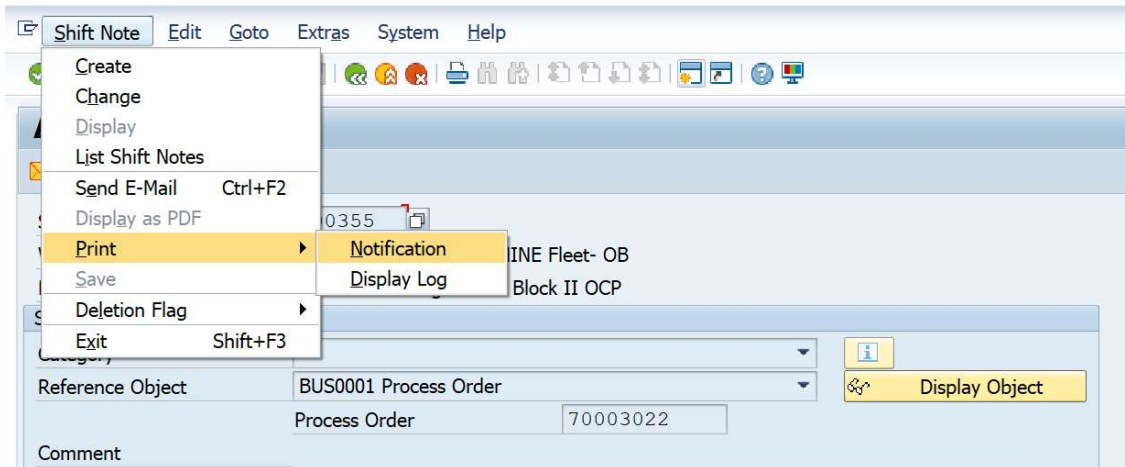
T-code-SHN3-Display Shift note

- Enter the generated shift note number then press enter.

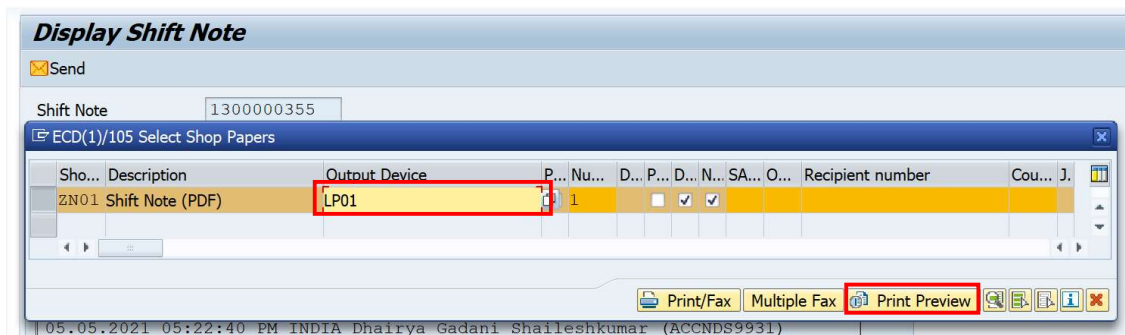
Display Shift Note

Shift Note Number 1300000355

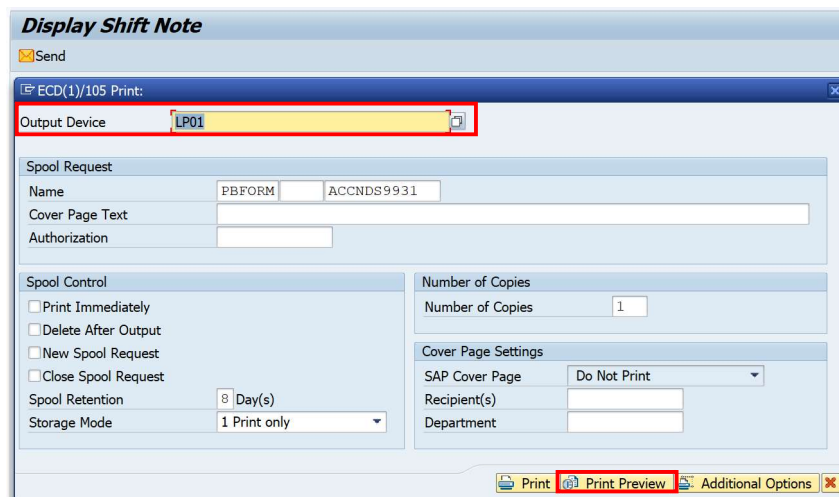
- Click on the Print notification as per path below.



- Insert the Output Device and click on Print Preview button.



- Again Mention output Device and click on print preview.





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➤ Shift Note Preview.

Shift-Wise Production Report (Opencast, Over Burden) Departmental Form 1-B

Name Of The Subsidiary: Name Of The Area:
Name Of The Mine: QUARRY 1/OB BENCH1,BENCH1
Name Of The Pitt: SEAM 1
Production Date: May 5, 2021
Shift: SF1A

1(a). Excavator

SLNO	NAME/NO	BENCH NO	HOURS			OB Quantity(CUM)		
			Working	B D	Idle	Solid	Re-Handled	Total
1	EXC2803	BENCH1	2:00		06:00			0
		TOTAL						0

1(b). Surface Miner

2. Drag Line

3(a). Dumper/Tipper - Departmental

SLNO	NAME/NO	BENCH NO	HOURS			DUMPER FACTOR	TRIPS NO	OB Quantity(CUM)		
			Working	B D	Idle			Solid	Re-Handled	Total
1	D11143	BENCH1	2:00		06:00	15	00006	90		90
		TOTAL				0	00006			90

3(b). Dumper/Tipper - Hired

4. Drill



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STEP 7- Perform manual goods issue (GI).(For Component Materials)

T-Code – MIGO

- Enter your Process Order and press Enter.

Goods Issue Order - Dhairya Gadani Shaileshkumar

Hide Overview | Hold | Check | Post | Help

Goods Issue | R08 Order | 70003022 | GI for order | 261

My Documents

- Purchase Orders
- Blank

General

- Maintain the quantity, Storage location, Batch Number(if any), & Select on OK material.

Goods Issue Order 70003022 - Dhairya Gadani Shaileshkumar

Hide Overview | Hold | Check | Post | Help

Goods Issue | R08 Order | GI for order | 261

General

Document Date: 05.05.2021 | Material Slip: | Posting Date: 05.05.2021 | Doc.Header Text: | 1 Individual Slip

Line	Mat. Short Text	WOK	Qty in UnE	Un	S	SLoc	Order	Batch	Act
1	CAST BOOSTER	✓	0.012	TE	MG - Magazine	70003022	TEST01	001	
2	Nonel	✓	329	MM	MG - Magazine	70003022	TEST01	001	
3	LD Column	✓	0.046	TO	MG - Magazine	70003022	TEST01	001	
4	REMOVABLE OB SOIL (Non-Valuated)	✓	20,000	M3	MG - Magazine	70003022	TEST01	001	
5	COPPER ELECTRIC DETONATOR	✓	2	NO	MG - Magazine	70003022	TEST01	001	
6	DETONATING FUSE	✓	2	MM	MG - Magazine	70003022	TEST01	001	

- Now Click on the Check button to see if document is ok or not.

Goods Issue Order 70003022 - Dhairya Gadani Shaileshkumar

Hide Overview | Hold | **Check** | Post | Help

Goods Issue | R08 Order

General

Document Date: 05.05.2021 | Material Slip: |
 Posting Date: 05.05.2021 | Doc.Header Text: |
☐ 1 Individual Slip

Line	Stat...	Mat. Short Text	W OK	Qty in UnE	EUn
1	OC	CAST BOOSTER	☒	0.012	TE
2	OC	Nonel	☒	829	KM
3	OC	LD Column	☒	0.046	TO
4	OC	REMOVABLE OB SOIL (Non-Valuated)	☒	20,000	M3
5	OC	COPPER ELECTRIC DETONATOR	☒	2	NO
6	OC	DETONATING FUSE	☒	2	KM

☒ Document is O.K.

- Click on the Post button to Post the Document.

Goods Issue Order - Dhairya Ga

Hide Overview | Hold | Check | **Post** | Help

Goods Issue | R08 Order

General

Document Date: 05.05. |
 Posting Date: 05.05. |
☐ 1 Individual Slip

Line	Mat. Short Text

☒ Material document 9200003476 posted



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STEP 9 - Check Stock posting

T-Code – MMBE

- Here you can see the of the material stock quantity.
- Maintain relevant information like material you want to see and plant in which you have stored. and click on execute button. 

Stock Overview: Company Code/Plant/Storage Location/Batch

Database selections

Material	4200000010	to		
Plant	2006	to		
Storage location		to		
Batch		to		

Stock Type Selection

☒ Also Select Special Stocks
☒ Also Select Stock Commitments

List Display

Special Stock Indicator ☐ to ☐ 

Display version

Display Unit of Measure

☒ No Zero Stock Lines
☐ Decimal Place as per Unit
☐ Aggregated Stock

Selection of Display Levels

☒ Company Code
☒ Plant

- Here you can see the stock quantity of material as shown below.

Stock Overview: Basic List

Selection

Material	4200000010	Over Burden
Material Type	ZSFG	Semifinished Goods
Unit of Measure	M3	Base Unit of Measure M3

Stock Overview

Client/Company Code/Plant/Storage Location/Batch/Special Stock	RecValSit	Unrestricted use	Qual. inspection
Full	0.000	40,000.000	
BCCL Bharat Coking Coal Ltd	0.000	40,000.000	
2006 Amalgamated Block II OCP	0.000	40,000.000	
U003 US-Coal Stock	0.000	20,000.000	
U011 OB - Store	0.000	20,000.000	