

	<b>USER MANUAL</b>  <b>Output Per Manshift (OMS)</b>	
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## **Output Per Manshift (OMS)**

The Output per Manshift (OMS) report is developed to calculate the output per manshift at Mine level, Area level, Subsidiary level and CIL level.

### **T codes used in OMS:**

**ZPP\_SG** – Grade Wise Reserve.

**ZPP\_SR** – Stripping Ratio.

**ZPP\_OMS** – OMS Report.

**ZPP\_OMS\_HRPY\_UPDT** – For OMS update HR payroll data

### **Prerequisites for OMS: -**

Maintain all the prerequisites/master table written below.

**ZPP\_SG** - Grade Wise Reserve

**ZPP\_SR** - Stripping Ratio

**ZSGGRADE** - Grade and Specific gravity master for PP\_OMS report.

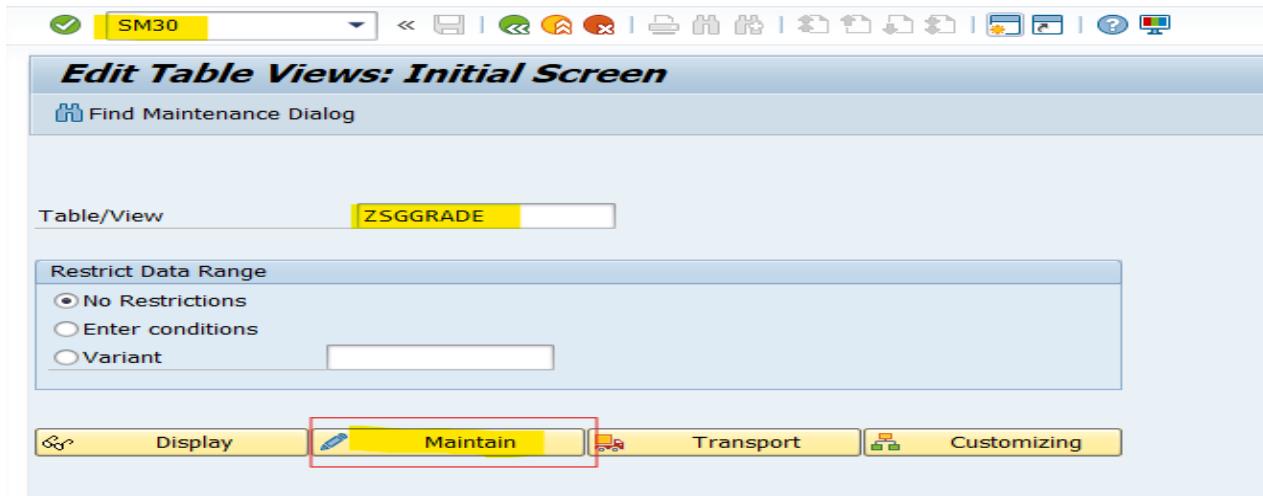
**ZHRPP\_OMS\_WAGE** - HR payroll wage types data for OMS report.

We can see the table view using SE16N T code.



### ZSGGRADE: -

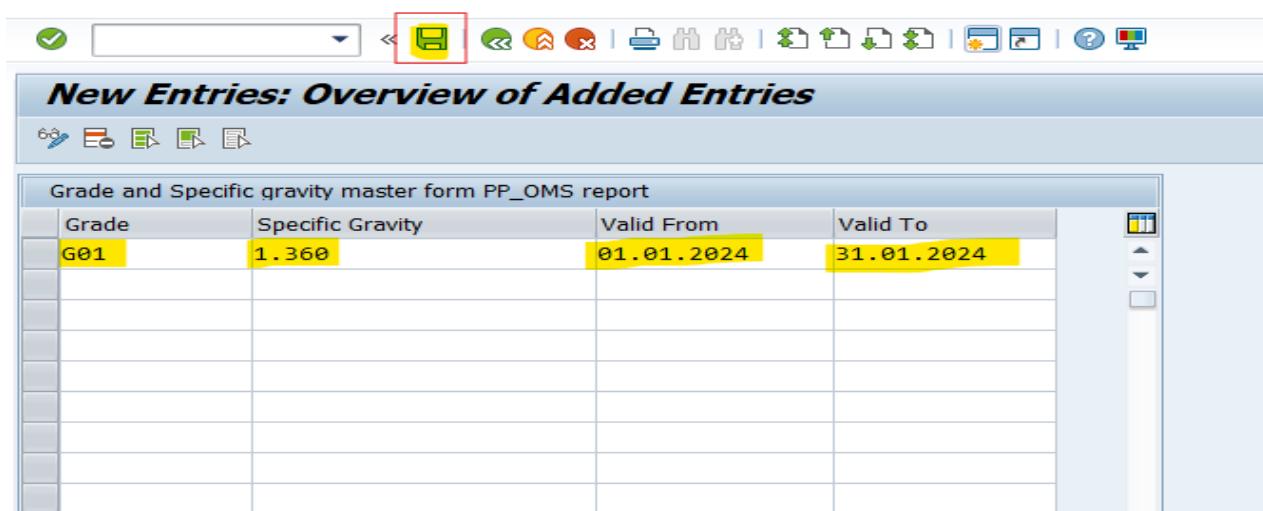
Update the ZSGGRADE table by table maintenance using T code SM30. Execute the T code SM30 and put the table name in table field and press to maintain radio button as displayed in the screenshot below.



After pressing the maintain button we have a screen like the snap below.



Choose new entries and fill in the required data in a specified column and save the data by pressing the save button.



**ZPP SG: -**

Maintain Grade wise reserve using T code ZPP\_SG with respect to Subsidiary, Area, Mine, Year, Reserve type and Grade. After executing the T code ZPP\_SG below screen will open.

**Grade Wise Reserve**

Provide Inputs

Subsidiary	<input checked="" type="checkbox"/>
Mine	<input type="checkbox"/>
Year	<input type="checkbox"/>
PR/RPR/SCHEME	<input type="checkbox"/>

Display.  
 Create  
 Change and Delete.

Please fill all the requirements as per need and choose the radio button as create, change and display, then execute. Put the grade and reserve as shown below snap and mark the tick and save the record.

Grade Wise Reserve

Subsidiary Area Mine Year Reserve ... Grade Reserve(Start of FY) TE Select

Subsidiary	Area	Mine	Year	Reserve ...	Grade	Reserve(Start of FY) TE	Select
MCL	5066	5065	2024	PR			<input type="checkbox"/>

Record saves in table ZRGTT\_PPOMS\_SG.



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**ZPP SR: -**

Maintain Mine wise Stripping Ratio using T code ZPP\_SR with respect to Subsidiary, Mine and SR type. Stripping ratio is only for OCM mine. After executing the T code ZPP\_SR below screen will open.

## Stripping Ratio



Selection Screen

Subsidiary	<input checked="" type="checkbox"/>
Mine Code	<input type="checkbox"/>
Stripping Ratio Type	<input type="checkbox"/>

Create  
 Change and Delete  
 Display

Please fill all the requirements as per need and choose the radio button as create, change and display, then execute. Put the stripping ratio, valid from and valid to range as shown below snap and save the record.

Record saved in table ZPP STRIP RATIO.

**ZPP OMS: -**

Once all the prerequisites are maintained then only, we go to run the OMS.

After executing the T code ZPP\_OMS we have the screen below as shown in snap.

The screenshot shows the 'OMS REPORT' window. At the top, there are two icons: a green checkmark and a blue document. Below them is a group of radio buttons: 'Mine Wise' (selected), 'Area Wise', 'Subsidiary Wise', and 'CIL'. In the main area, there are two input fields: 'Mine' and 'Month & Year'. The 'Mine' field contains the placeholder 'Mine'. The 'Month & Year' field has two sub-fields: the first is empty, and the second contains 'MM.YYYY'.

Choose the radio button from Mine, Area, Subsidiary and CIL and as per selection of radio button input the required fields, then execute.

**1. Mine Wise: -**

Choose mine wise radio button and input the mine, month and year then execute mine level OMS, we have the screen below as shown in snap.

The screenshot shows the 'OMS REPORT' window with the 'Mine Wise' radio button selected. The 'Mine' field now contains '2008'. The 'Month & Year' field has two sub-fields: the first contains '01.2025' and the second contains 'MM.YYYY'.

## Output Per Manshift (OMS)



**OMS Report Mine wise.**

Month & Year <span style="border: 1px solid black; padding: 2px;">January 2025</span>									
Mine Code	Mine Description	Mine Type	Stripping Ratio	Specific Gravity	Coal Production(TE)	OB Removal (CUM)	Actual Manshift	Adjusted Manshift	OMS
2088	AMLG. BLOCK IV GOVINDPUR OCM	OCH	2.12	1.580	45,900.000	69,920.000	16,120.000	20,582.960	2.230
<span style="float: right;">[Print]</span>									

Progressive									
Mine Code	Mine Description	Mine Type	Stripping Ratio	Specific Gravity	Coal Production(TE)	OB Removal (CUM)	Actual Manshift	Adjusted Manshift	OMS
2088	AMLG. BLOCK IV GOVINDPUR OCM	OCH	2.12	1.580	227,925.000	788,763.988	177,933.000	119,645.669	1.905
<span style="float: right;">[Print]</span>									

Print PDF

We have OMS value in the above screen of same mine for same month and year and also for progressive year, which we will put in the input fields. For printing the report in PDF format, we have an option below the report as Print PDF click on that and download the PDF.

**Check points:-**

- **Mine Code** – User Entry data in selection screen as per ZRGTT\_PP.
- **Mine Description** -Check name of Mine Code entered by user in selection screen from ZRGTT\_PP.
- **Mining Type** – Check mining Type for mine code entered by user in selection screen from ZRGTT\_PP.
- **Stripping Ratio** – Check it using T code ZPP\_SR or table ZPP\_STRIP\_RATIO for respective mine and period.
- **Specific Gravity** – Check it using T code ZPP\_SG or table ZRGTT\_PPOMS\_SG for respective mine and period.
- **Coal Production** – Check coal production Quantity from ZPP\_PROD for respective mine and period. (Excluding CHP process)
- **OB Production** – Check OB Production from OB Reconciliation Table (ZRGTT\_OBM\_REC). If in case OB measurement is not completed for same period, you can check ZPP\_PROD for respective mine and period.
- **Actual Manshift** - Actual manshift is calculated with wage types UG + Weekly Off + Physical Attendance + Holiday + Over time.



UG	Time wage type	6052							
Phy Attn	Time wage type	6055							
Weekly off	Time wage type	6054							
Holiday	Time wage type	6057							
OT	Time wage type	2190	2200	2210	2220	2450	2460	2470	2480

$$V_{\_6055} = V_{\_6055} - V_{\_6052}$$

$$\text{Actual Manshift} = (V_{\_6055} + V_{\_6052} + V_{\_6054} + V_{\_6057} + (V_{\_OT} / 8)).$$

The number of man hours for each wage type can be fetched using the standard transaction function module PC00\_M99\_CWTR.

Pass only Personal area in selection screen, payroll period, for-view payroll periods and select the personal subarea from the object selection and pick it in display layout.

**Wage Type Reporter**

Further selections		Search helps	Org. structure
Personnel Number	<input type="text"/>	<input type="button"/>	<input type="button"/>
Company Code	<input type="text"/>	<input type="button"/>	<input type="button"/>
Personnel area	5K00	<input type="button"/>	<input type="button"/>
Personnel subarea	<input type="text"/>	<input type="button"/>	<input type="button"/>
Employee group	<input type="text"/>	<input type="button"/>	<input type="button"/>
Employee subgroup	<input type="text"/>	<input type="button"/>	<input type="button"/>
Payroll area	<input type="text"/>	<input type="button"/>	<input type="button"/>

Payroll Interval	
Period	01.01.2025
Payroll type	<input type="text"/> to <input type="text"/>
<input type="button"/> Payroll Period	

Period determination	
<input type="radio"/> In-view payroll periods	
<input checked="" type="radio"/> For-view payroll periods	

Other selections	
Wage Type	2190
<input type="checkbox"/> Archived Payroll Results	<input type="text"/>
<input type="checkbox"/> Display results with null values	<input type="button"/>

\*Note - Filter the manshift hours as per personal subarea and add total the wage type nos.



**OMS Calculation:** - The OMS calculation to be done using the formula below based on the mine type.

A. **(i) UG Mines:**

$$\text{OMS} = \frac{\text{Coal Production}}{\text{Actual Manshift}} = \frac{P}{M}$$

**(ii) OC Mines:**

$$\text{OMS} = \frac{P + (\text{SG} \times Q)}{M (1 + \text{SR} \times \text{SG})}$$

Where P= Coal Production in Tonnes (including Departmental+Hired)

Q= Total OBR (including Solid & RH and Departmental & Hired) in m<sup>3</sup>

SR= Stripping Ratio

SG= Specific Gravity in t/m<sup>3</sup>

### **Adjusted Manshift – Coal Production / OMS**

#### **Progressive Calculation:**

The logic remains the same for all fields except for the consideration of posting date (date range). The date to be considered for the progressive is Start date to be the 1st date of particular financial year till the end of the current month entered by the user.

#### **2. Area Wise: -**

Run OMS for each mine associated with area for the period before executing OMS in area level as a mandatory Prerequisites for Area level OMS.

Choose Area wise radio button and input the Area, month and year then execute Area level OMS, we have the screen below as shown in snap.

## Output Per Manshift (OMS)



**OMS REPORT**

Mine Wise  
 Area Wise  
 Subsidiary Wise  
 CIL

Area **2007**  
 Month & Year **01.2025 MM.YYYY**

**OMS Report Area wise**

Month & Year	January 2025								
Area Code	Area Description	Mining Type	Overall Area OMS	Coal Production (TE)	OB Removal (CUM)	Actual Manshift UGM	Adjusted Manshift OCM	Area manshift	Area OMS
2007	GOVINDPUR AREA	UGM	4,669.543	0.000	18,938.000	0.000	0.000	0.247	
2007	GOVINDPUR AREA	OCM	121,130.000	636,399.000	0.000	27,459.707	0.000	4.411	
			Overall Area OMS	125,799.543	636,399.000	18,938.000	27,459.707	8,845.000	2.277

Progressive									
Area Code	Area Description	Mining Type	Overall Area OMS	Coal Production (TE)	OB Removal (CUM)	Actual Manshift UGM	Adjusted Manshift OCM	Area manshift	Area OMS
2007	GOVINDPUR AREA	UGM	49,954.745	0.000	224,530.000	0.000	0.000	0.222	
2007	GOVINDPUR AREA	OCM	732,355.000	6,300,873.257	0.000	175,328.415	0.000	4.177	
			Overall Area OMS	782,309.745	6,300,873.257	224,530.000	175,328.415	95,847.500	1.578

We have OMS value in the above screen of the same Area for same month and year and for progressive year, which we will put in the input fields. For printing the report in PDF format, we have an option below the report as Print PDF click on that and download the PDF.

**Check points: -**

- **Area Code** – User Entry data in selection screen as per ZRGTT\_PP.
- **Area Description** -Check name of Area Code entered by user in selection screen from ZRGTT\_PP.
- **Mining Type** – Check mining Type for mine code associated with the area entered by user in selection screen from ZRGTT\_PP.
- **Coal Production** – Check coal production Quantity from ZPP\_PROD for mine code associated with the area entered by user in selection screen and period. (Excluding CHP process)
- **OB Production** – Check OB Production from OB Reconciliation Table (ZRGTT\_OBM\_REC) mine code associated with the area. If in case OB measurement is not completed for same period, you can check ZPP\_PROD for mine code associated with the area entered by user in selection screen.
- **Actual Manshift** – Sum of actual manshift of all UG mine.
- **Adjusted Manshift** – Sum of adjusted manshift of all OC mine.
- **Area Manshift** – For area manshift follow the below steps.
  - a. View the table V\_001P\_ALL as input parameter INDIA and pass the personal area from ZRGTT\_PP against the area code entered in entry screen collect all the sub area against the same personal area.
  - b. Delete those sub area of OCM and UGM mines which have used in mine level mentioned in ZRGTT\_PP for same personal area.
  - c. Then pass the rest of sub area collected from V\_001P\_ALL in PC00\_M99\_CWTR in sub area field, pass the financial start date and the last date of month entered in entry screen, put the wage type and take the view as For-view payroll period and execute as executed in mine level.
  - d. Same for OT.

**Note:** -We faced run-time issues while executing the areal level OMS at the time of fetching manshift. So, we created a custom table **ZHRPP\_OMS\_WAGE** to update manshift data at CIL level to eliminate performance issues while executing OMS in area level.

In table **ZHRPP\_OMS\_WAGE** we update the manshift data as per company code, personal area, personal sub-area, for view pay roll period, wage type, amount from wage type report PC00\_M99\_CWTR.

To update the table **ZHRPP\_OMS\_WAGE** we made a T code ZPP\_OMS\_HRPY\_UPDT where we must input the month and year and execute, in the basis of input data all the manshift data fetched from wage type report and update in the custom table.



**OMS Calculation:** - The Area OMS calculation to be done using the formula below based on the mine type.

- Overall UG OMS.
- Overall OC OMS.
- Overall Area OMS.

**(i) Overall UG OMS**

$$= \frac{\sum \text{Coal production of all UG mines}}{\sum \text{Manshift of all UG mines}}$$

**(ii) Overall OC OMS**

$$= \frac{\sum \text{Coal production of all OC mines}}{\sum \text{Adjusted Manshift of all OC mines}}$$

**(iii) Overall OMS**

$$= \frac{\sum \text{Coal production of all UG & OC mines}}{\sum \text{Manshift of all UG mines, adjusted Manshift of all OC mines and Area Manshift}}$$

**Progressive Calculation:**

The logic remains the same for all fields except for the consideration of posting date (date range). The date to be considered for the progressive is Start date to be the 1st date of particular financial year till the end of the current month entered by the user.



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## **Output Per Manshift (OMS)**



We have also a radio button option for all mines wise report associated with the area in left corner of Area OMS report.

While pressing on the mine report below screen will open for all mine associated with the area.

OMS Report Mine wise.									
Month & Year		January 2025							
Mine Code	Mine Description	Mine Type	Stripping Ratio	Specific Gravity	Coal Production(TE)	OB Removal (CUM)	Actual Manshift	Adjusted Manshift	OMS
2008	AMLG. BLOCK IV GOVINDPUR OCM	OCM	2.12	1.588	45,900.000	69,920.000	0.000	20,536.913	2.235
2012	NEW AKASHKINAREE COLLIERY OCM	OCM	2.36	1.588	75,230.000	566,479.000	0.000	6,922.794	10.867
2009	JOGIDIH MINE UG	UGM		1.588	1,073.443	0.000	6,503.000	0.000	0.165
2010	KHARKHAREE MINE UG	UGM		1.588	0.000	0.000	2,554.000	0.000	0.000
2011	MAHESHPUR MINE UG	UGM		1.588	2,685.100	0.000	9,881.000	0.000	0.272

**-THANK YOU**