

	USER MANUAL	
	Output Per Manshift (OMS)	

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

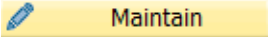
ZPP_SR - Stripping Ratio

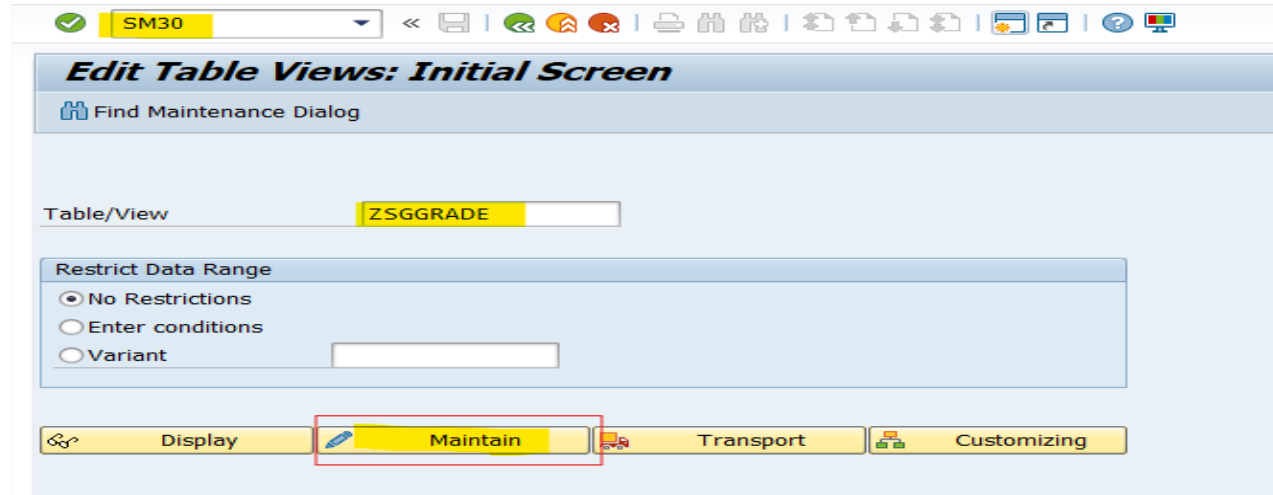
ZSGGRADE - Grade and Specific gravity master for PP_OMS report.

ZHRPP_OMS_WAGE - HR payroll wage types data for OMS report.

We can see the table view using SE16N T code.

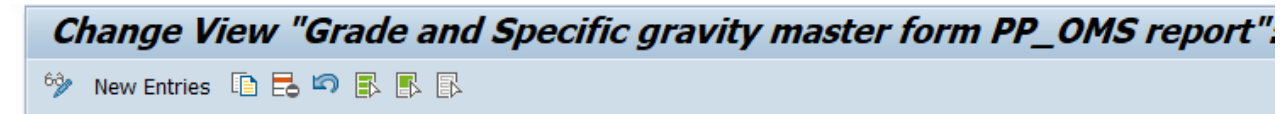
ZSGGRADE: -

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.




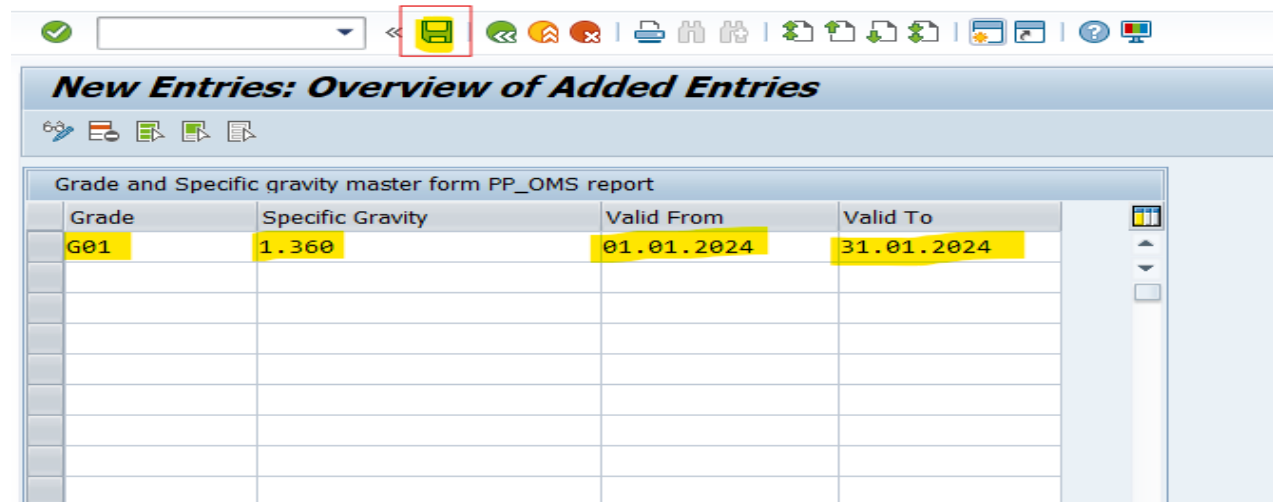
The screenshot shows the SAP SM30 'Edit Table Views: Initial Screen'. The 'Table/View' field contains 'ZSGGRADE'. Under 'Restrict Data Range', the 'No Restrictions' radio button is selected. At the bottom, the 'Maintain' button is highlighted with a red box.

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



The screenshot shows the SAP 'Change View' screen titled 'Grade and Specific gravity master form PP_OMS report'. The 'New Entries' button is highlighted with a red box.

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



The screenshot shows the SAP 'New Entries: Overview of Added Entries' screen. It displays a table with the following data:


Grade	Specific Gravity	Valid From	Valid To
G01	1.360	01.01.2024	31.01.2024

Tech Mahindra	USER MANUAL	
	Output Per Manshift (OMS)	

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☒


Mine☐

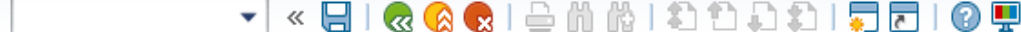
Year☐

PR/RPR/SCHEME☐


☒ 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

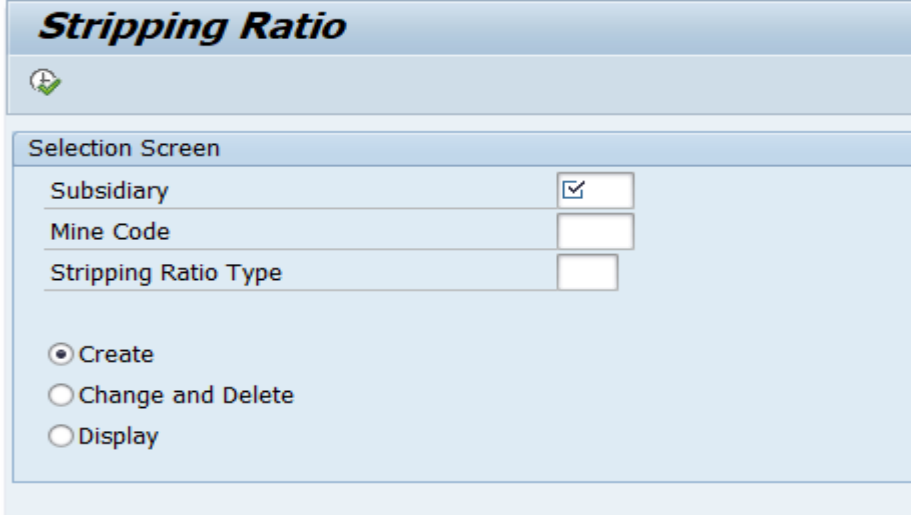


Subsidiary	Area	Mine	Year	Reserve ...	Grade	Reserve(Start of FY) TE	Select
MCL	5066	5065	2024	PR			<input type="checkbox"/>

Record saves in table ZRGTT_PPOMS_SG.

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

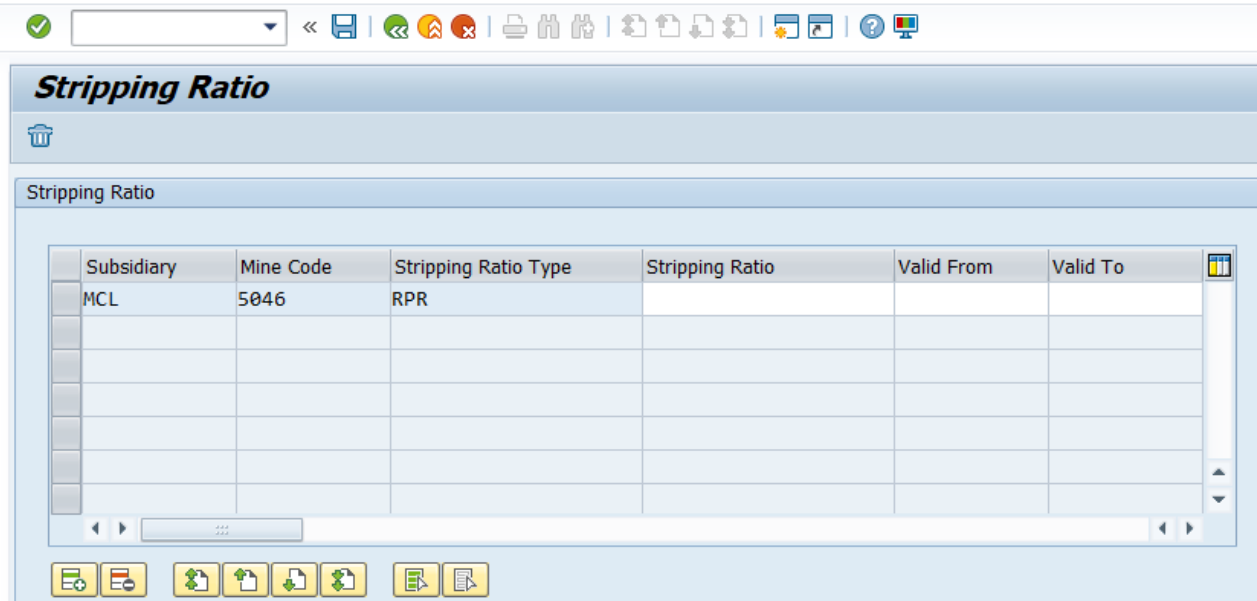
Subsidiary ☒

Mine Code

Stripping Ratio Type

☒ 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.



Stripping Ratio

Stripping Ratio

Subsidiary	Mine Code	Stripping Ratio Type	Stripping Ratio	Valid From	Valid To
MCL	5046	RPR			

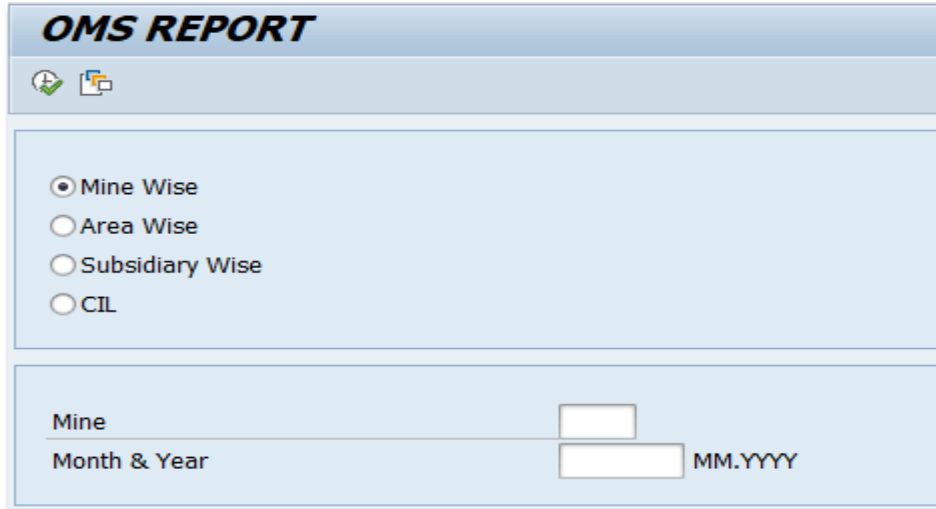
Record saved in table ZPP_STRIP_RATIO.

	USER MANUAL		
	Output Per Manshift (OMS)		

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.



OMS REPORT


☒ Mine Wise
☐ Area Wise
☐ Subsidiary Wise
☐ CIL

Mine
 Month & Year 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.



OMS REPORT

☒ Mine Wise
☐ Area Wise
☐ Subsidiary Wise
☐ CIL

Mine
 Month & Year MM.YYYY


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	1.580	45,900.000	69,920.000	16,120.000	20,582.960	2.230

Progressive

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	1.580	227,925.000	788,763.988	177,933.000	119,645.669	1.905

 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.

	USER MANUAL		
	Output Per Manshift (OMS)		

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

Selection

Personnel Number:
Company Code:
Personnel area: 5K00
Personnel subarea:
Employee group:
Employee subgroup:
Payroll area:

Payroll Interval

Period: 01.01.2025 To: 31.01.2025
Payroll type:
Payroll Period:

Period determination

☐ In-view payroll periods
☒ For-view payroll periods

Other selections

Wage Type: 2190 to:
☐ Archived Payroll Results
☐ Display pages with null values

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

	USER MANUAL		
	Output Per Manshift (OMS)		

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:

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

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

Q= Total OBR (including Solid & RH and Departmental & Hired) in m³

SR= Stripping Ratio

SG= Specific Gravity in t/m³

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.

OMS REPORT

☐ Mine Wise
☒ Area Wise
☐ Subsidiary Wise
☐ CIL

Area: 2007
 Month & Year: 01.2025 MM.YYYY

OMS Report Area wise

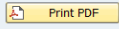
☒ Mine Report

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.

	USER MANUAL		
	Output Per Manshift (OMS)		

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.

	USER MANUAL	
	Output Per Manshift (OMS)	

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.

	USER MANUAL		
	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.

OMS Report Area wise

 Mine Report

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
2007	GOVINDPUR AREA	UGM		4,669.543	0.000	18,938.000	0.000
2007	GOVINDPUR AREA	OCM		121,130.000	636,399.000	0.000	27,459.707
			Overall Area OMS	125,799.543	636,399.000	18,938.000	27,459.707

◀ ▶

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	1.580	45,900.000	69,920.000	0.000	20,536.913	2.235
2012	NEW AKASHKINAREE COLLIERY OCM	OCM	2.36	1.580	75,230.000	566,479.000	0.000	6,922.794	10.867
2009	JOGIDIH MINE UG	UGM		1.580	1,073.443	0.000	6,503.000	0.000	0.165
2010	KHARKHAREE MINE UG	UGM		1.580	0.000	0.000	2,554.000	0.000	0.000
2011	MAHESHPUR MINE UG	UGM		1.580	2,685.100	0.000	9,881.000	0.000	0.272

◀ ▶

Progressive

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	1.580	227,925.000	788,763.988	0.000	119,645.669	1.905
2012	NEW AKASHKINAREE COLLIERY OCM	OCM	2.36	1.580	504,430.000	5,512,109.269	0.000	55,682.746	9.059
2009	JOGIDIH MINE UG	UGM		1.580	10,402.865	0.000	73,713.000	0.000	0.141
2010	KHARKHAREE MINE UG	UGM		1.580	768.380	0.000	55,404.000	0.000	0.014
2011	MAHESHPUR MINE UG	UGM		1.580	25,206.500	0.000	95,413.000	0.000	0.264
2013	NEW AKASHKINAREE COLLIERY UG	UGM		1.530	13,577.000	0.000	0.000	0.000	0.000

◀ ▶

-----THANK YOU-----

Prepared by Abhay K Narendra