

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**Mining Plan Modification REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KTN/DOL-98

**Mine code :** 19MPR47022

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Vidya Sahu(QP), Saurabh Singh(Lessee's Representative)  
Official with  
Designation
- (iv) Date of Inspection : 29-APR-22
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHATAGAWAN SUNHERA**
- (b) **Registration NO.** :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for correspondence : M/S VIRENDRA SINGH & SONS  
SATYENDRA BHAWAN, RAM NIWAS SINGH MARG,  
KATNI (M.P.)
3. (a) Lease Number :
- (b) Lease area :17.44 HA
- (c) Period of lease :50
- (d) Date of Expiry : 26.12.2050
4. Mineral worked : LIMESTONE Associated  
DOLOMITE Main

## 5. Name and Address of the

Lessee : VIRENDRA SINGH & SONS  
 SATYENDRA BHAVAN, RAM NIWAS  
 SINGH MARG, KATNI MADHYA  
 PRADESH  
 Phone:N. A.  
 FAX :N. A.

Owner : VIRENDRA SINGH & SONS  
 SATYENDRA BHAVAN, RAM NIWAS  
 SINGH MARG KATNI MADHYA  
 PRADESH  
 Phone: N. A.  
 FAX : N. A.

## Mining Engineer

Name : J.L.SARAF,Part Time  
 Qualification : Diploma in mining & second class certifi  
 Appointment/ : 18-NOV-02  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-NOV-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	21-AUG-06
		MP review under 17(1) MCR 2016	21-AUG-20

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	10 BH	Not done during the year.	Violation pointed out under Rule 11(1).
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Not specified	122-122066 T	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area has Mahakoshal formation of middle Proterozoic in age and major rocks are Limestone, Dolomite and Phyllites. The general strike of the rocks in the region is ENE-WSW having the dip of 65 to 80 degree towards south.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N(2618950-2619050)E(443800-443900)	N(2618950-2619050)E(443800-443900)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for Overburden & mineral proposed	Separate bench for Overburden & mineral maintained	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.05	

2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	358	351
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	7153 T	7014 T	
3c	Recovery of sailable/usable mineral from ROM production	60%	60%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	ManuaL	Manual	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	As per proposal
3k	Provision of mining machineries in mineral benches	Yes	Type of machinery Capacity of each unit No. of units Electrical/Non-Electrical (specify) Used in opencast/underground (specify) DUMPER 15.000 TONNE 1 Non Electrical Opencast DUMPER 10.000 TONNE 1 Non Electrical Opencast WATER TANKER 2000.000 LITRE 1 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	(A) Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches Manual 4 0 (ii) Average height (meters) Manual 3 0
3m	Total area covered under excavation/pits	Not specified	2.14 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.05
3o	Total area put in use under different heads at the end of year	Not specified	3.61 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - Nil T 2018-19 - Nil T 2019-20 - Nil T 2020-21 - 7200 T 2021-22 - 7153 T	2017-18 - Nil T 2018-19 - Nil T 2019-20 - Nil T 2020-21 - 4572 T 2021-22 - 7014 T

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB maintained	
4b	Location of topsoil, OB and mineral reject dumps	In the northern portion of the lease	In the northern portion of the lease	
4c	Number of dumps within lease area and outside of lease area	05 within lease	05 within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	05	05	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Nil	
4j	Number of settling ponds	Not specified	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste/OB generated is being dumped in the lease area.

## Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	full extraction of mineral from mined out area before starting backfilling process	full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	Not specified	0.07 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	NA	
5d	Total area fully reclaimed and rehabilitated	Not specified	0.1743 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Full extraction of mineral from mined out area before starting backfilling process is being adopted and practiced in the lease area.

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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	Not specified	Nil	
6c	afforestation done (ha) .	Not specified	Nil	
6d	No. of saplings planted during the year	Not specified	(a) Within lease area (b) Outside leasearea (i) Number of trees planted during the year 295 0 (ii) Survival rate in percentage 70.00 0	

6e	Cumulative no .of plants	Not specified	Details not available.
6f	Any other method of rehabilitation	NA	NA
6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP related proposals needed upgradation and hence incorporated in the latest approved document.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM after grade-wise mineral sorting is being Dispatched within Lease Area is proposed	ROM after grade-wise mineral sorting is being Dispatched within Lease Area is adopted.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.	Not specified	SMS	
7d	Any beneficiation process at mines	Not proposed	No beneficiation process at mines adopted, only ROM dispatch.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines adopted, only ROM dispatch.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Separate dumps for overburden waste rock maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB dumping proposed	OB dumping done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Not available.	
8g	Survival rate	Not specified	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is moderate and needs to be improved.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR and AR online submitted.	MR and AR online submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager Jitendra Singh Mining Engineer in charge J.L Saraf Geologist in charge Sandip Some
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area)utilisation as at the end of year(hectares) Underforest Outsideforest Total (i) Already exploited & abandoned byopencast (O/C) mining 0.000 0.105 0.105 (ii) Covered under current (O/C)Workings 0.000 2.140 2.140 (iii) Reclaimed/Rehabilitated 0.000 0.070 0.070 (iv) Used for waste disposal 0.000 0.318 0.318 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.307 0.307 (vi) Other Purpose (Green belt) 0.000 0.206 0.206
9d	Scrutiny of Annual return on afforestation	Given	(a) Within lease area (b) Outside leasearea (i) Number of trees planted during the year 295 0 (ii) Survival rate in percentage 70.00 0
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( LIMESTONE )</p> <p>Grades</p> <p>Opening stockat mine head(in tonne)</p> <p>Production (intonne)</p> <p>Dispatchesfrom minehead(in tonne)</p> <p>Closingstock at mine head (intonne)</p> <p>Ex-mineprice(in ? PerTonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 4936.290 7014.000 5366.000 6584.290 389.30</p>
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( LIMESTONE )</p> <p>Grades</p> <p>Opening stockat mine head(in tonne)</p> <p>Production (intonne)</p> <p>Dispatchesfrom minehead(in tonne)</p> <p>Closingstock at mine head (intonne)</p> <p>Ex-mineprice(in ? PerTonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 4936.290 7014.000 5366.000 6584.290 389.30</p>
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	Given	<p>Type ofmachinery</p> <p>Capacity ofeach unit</p> <p>No.ofunits</p> <p>Electrical/Non-Electrical(specify)</p> <p>Used in opencast/underground(spe cify)</p> <p>DUMPER 15.000 TONNE 1</p> <p>Non Electrical Opencast</p> <p>DUMPER 10.000 TONNE 1</p> <p>Non Electrical Opencast</p> <p>WATER TANKER 2000.000</p> <p>LITRE 1 Non Electrical</p> <p>Opencast</p>

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	22-JUL-22			
MCDR17	Rule 34(1)	22-JUL-22			

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines