

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-259

Mine code : 38MPR47037

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 15-SEP-21
- (v) Prev.inspection date : 23-FEB-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SUNEHRI [15.17 HECT.]**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : SUNEHRI
Taluka : KATNI
Post office : BICCHUWA
Pin Code : 483501
FAX No. : 07622-230538
E-mail : N. A.
Phone : 07622- 506220, 230537, 22.
- (f) Police Station :
- (g) First opening date : 28-FEB-02
- (h) Weekly day of rest : SUN
2. Address for : SHRI GAGAN SIAL
correspondance B-1, NEW ACC COLONY
KATNI (M.P.) 483501
3. (a) Lease Number : MPR2496
(b) Lease area : 15.17
(c) Period of lease : 20
(d) Date of Expiry : 03-DEC-21
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : GAGAN SIAL
 B-1, NEW ACC COLONY,
 KATNI MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : GAGAN SIAL
 B-1, NEW ACC COLONY,
 KATNI MADHYA PRADESH
 Phone: N. A.
 FAX : N. A.

Mining Engineer

Name : RAJESH SINGH,Part Time
 Qualification : Second class mines managers certificate
 Appointment/ : 17-DEC-04
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	19-SEP-01
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	17-JUN-04
	:	Mining Scheme rule 12 MCDR1988	21-FEB-08
	:	Mining Scheme rule 12 MCDR1988	07-AUG-12
	:	Mining Scheme rule 12 MCDR1988	05-APR-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	03 boreholes	03 boreholes	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposed during the year 2020-21.	No exploration carried out during the year 2020-21.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Area explored under G1 level about 4.72 Ha and 10.45 Ha falls under G3 level	
1e	Balance reserve as on 01/04/20		606236 MT (111)	No additional reserves estimation done.
1f	General remarks of inspecting officers on geology, exploration etc			Mining lease area belongs to Mahakaushal group of rock of irregular habit deposit. Most of the limestone in lease area proved by single working pit.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	EW-200-500 NS-380-420	EW-200-400 NS-380-420	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil and mineral proposed	Soil-1 bench of 3m Lst- 02 benches of 6m approx.	

2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.16	
2d	Quantity of topsoil generation in m3	5453	5622	
2e	Quantity of overburden generation in m3	5465	7865	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There is single working pit in the central part of lease area with broken up area of about 2.87Ha and about 12mt working depth.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	92352 MT	48170 MT	Violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	95%	90%	About 10% of ROM generated as inter-burden waste.
3d	Quantity of mineral reject generation	Not Proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Not Proposed	NA	

3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA
3j	Provision of drilling and blasting in mineral benches	Proposed	Drilling & blasting using wagon drill of 110mm dia carried out.
3k	Provision of mining machineries in mineral benches	L&T PC Excavator- 1.10CuM, 210HP, TATA Dumper, 10 T capacity- 03 Nos Wagon Drill rods -110mm Water Tanker- 5KL Water pump with Diesel engine	BACK HOE 0.900 CUM 1 Non Electrical DUMPER 15.000 TONNE 2 Non Electrical AIR COMPRESSOR 240.000 CUM/MN 1 Non Electrical PUMPS (NON-ELEC.) 240.000 L/MN 1 Non Electrical ROCK DRILL (NONELEC.) 32.000 MM 4 Non Electrical
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Ht- max 6m proposed	Soil-3m Lst- 02 benches of 6m approx.
3m	Total area covered under excavation/pits	4.0008 Ha	2.8717 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.16

3o	Total area put in use under different heads at the end of year	Covered under current (O/C) Workings 2.872 Used for waste disposal 0.926 Occupied by plant, buildings, residential, welfare buildings & roads 0.741 Other Purpose (Mineral storage, top soil,) 1.065																				
3p	Production of ROM mineral during the last five year period as applicable	<table border="0"> <tr><td>2016-17</td><td>92007</td><td>2016-17</td><td>49620</td></tr> <tr><td>2017-18</td><td>91462</td><td>2017-18</td><td>49747</td></tr> <tr><td>2018-19</td><td>91729</td><td>2018-19</td><td>48340</td></tr> <tr><td>2019-20</td><td>92455</td><td>2019-20</td><td>46980</td></tr> <tr><td>2020-21</td><td>92352</td><td>2020-21</td><td>48170</td></tr> </table>	2016-17	92007	2016-17	49620	2017-18	91462	2017-18	49747	2018-19	91729	2018-19	48340	2019-20	92455	2019-20	46980	2020-21	92352	2020-21	48170
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2020-21	92352	2020-21	48170																			
3q	General remarks of inspecting officers on method of mining etc.	Open cast mechanised working proposed by using Excavator & dumper combination with drilling & blasting using wagon drill.																				

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed.	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	NE part of the mine area	NE part of the mine area	
4c	Number of dumps within lease area and outside of lease area	4 Nos.	4 Nos.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	01	01	

4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	Not Proposed	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	not proposed	Garland drain 40mX1mX1m	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	Garland drain 40mX1mX1m	
4j	Number of settling ponds	not proposed	01 no	
4k	Specific comments of inspecting officer on waste dump management			Mining lease area is devoid of overburden. Mine waste is in the from of intercalated phyllite.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not Proposed	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be used for plantation	Top soil used for plantation	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Top soil & waste/inter-burden encountered in the lease area proposed to be stacked at earmarked location for future backfilling and plantation purpose. During proposed plan period scope of backfilling doesn't exists.
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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	PMCP data for 2020-21 is submitted.	
6b	Area available for rehabilitation (ha) .	Not Proposed	nil	
6c	afforestation done (ha).	not proposed	nil	
6d	No. of saplings planted during the year		As per the latest approved document, it is furnished that only 17 saplings is carried out over an area of 60m2 against the proposal of 85 saplings over an area of 300m2 .	Violation pointed out under rule 11(1) of MCDR 2017.
6e	Cumulative no .of plants	not proposed	NA	
6f	Any other method of rehabilitation	Not Proposed	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	Not proposed	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yearly monitoring of air, water & noise during 2020 (Oct-Nov) by Anacon Lab Nagpur carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Scope of PMCP work is very well existed in the lease area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	NA	
7c	Different grade of mineral sorted out at mines.	not proposed	NA	
7d	Any beneficiation process at mines .	Not proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines practised. ROM dispatch carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top Soil spread over 7.5m Barrier zone and utilized for plantation.	
8b	Concurrent use or storage of topsoil	Proposed to be used for plantation	Spreading for plantation at barrier zone	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Waste rock dumped in NE of lease.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	As per the latest approved document, it is furnished that only 17 saplings is carried out over an area of 60m ² against the proposal of 85 saplings over an area of 300m ² .	Violation pointed out under rule 11(1) of MCDR 2017.
8g	Survival rate	not proposed	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust carried out	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area is not satisfactory.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return and Annual Return submitted upto date till date of inspection.	Annual Return for the year 2020-21 was submitted within time limit but it is observed that the annual returns were not submitted within the date specified for the years 2014-15 to 2019-20.	Violation pointed under rule 45(7)
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Manager DHARMENDRA Mining Engineer in charge K.N.OJHA Geologist in charge SHRIDHAR PANDEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	Covered under current (O/C) Workings 2.872 Used for waste disposal 0.926 Occupied by plant, buildings, residential, welfare buildings & roads 0.741 Other Purpose (Mineral storage, top soil,) 1.065	
9d	Scrutiny of Annual return on afforestation	given	Number of trees planted during the year Within lease area is 70nos and Outside lease area is 150 nos	
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	nil	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	Ex-mine price: SMS Grade -Rs 460/MT and deduction is Rs 232. Production cost- Rs 401.72/Tonne
9h	Scrutiny of Annual return on fixed assets	given	Value of Fixed Assets (in Rs) 3736384
9k	Scrutiny of Annual return on mining machineries	given	BACK HOE 0.900 CUM 1 Non Electrical DUMPER 15.000 TONNE 2 Non Electrical AIR COMPRESSOR 240.000 CUM/MN 1 Non Electrical PUMPS (NON-ELEC.) 240.000 L/MN 1 Non Electrical ROCK DRILL (NONELEC.) 32.000 MM 4 Non Electrical

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)	01-OCT-21		MCDR17 Rule 11(1)	01-OCT-21	30-NOV-21
MCDR17 Rule 45(7) (a)	01-OCT-21		MCDR17 Rule 45(7)	01-OCT-21	30-NOV-21
MCDR17 Rule 45(7) (a)	01-OCT-21		MCDR17 Rule 45(7)	01-OCT-21	30-NOV-21
MCDR17 Rule 45(7) (a)	01-OCT-21		MCDR17 Rule 45(7)	01-OCT-21	30-NOV-21
MCDR17 Rule 11(1)	15-SEP-21	01-DEC-21			
Rule 45(7)	15-SEP-21	01-DEC-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines