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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-259

Mine code : 38MPR47037

- (i) Name of the Inspecting : G006) ABHISHEK RANJAN GAUTAM
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri K. N. Ojha, lessee representative, Shri A K Pand
Official with
Designation
- (iv) Date of Inspection : 24-APR-23
- (v) Prev.inspection date : 15-SEP-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 : 50
- (d) Date of Expiry : 03-DEC-51
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

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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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	14 Bore hole in the year 2021-22	10 Bore hole done	Violation pointed out under rule 11(1)
1b	Exploration over lease area for geological axis 1 or 2	G1 level of exploration	Area explored under G1 level about 4.72 Ha and 10.45 Ha falls under G3 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposed	315000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Lease area explored up to G1 level	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		Balance reserve as on 01/04/2023 - 311328 Tonnes	
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	ES-446-441	ES - 446-441	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil and mineral proposed	Soil-1 bench of 3.5 m Lst- 02 benches of 6m approx.	
2c	Stripping ratio or ore to OB ratio	1:0.57	1:0.60	
2d	Quantity of topsoil generation in m3	12096 cubic meter	10560 cubic meter	

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2e	Quantity of overburden generation in m3	28553 cubic meter	26340 cubic meter	
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	One pit	One pit	
3b	Quantity of ROM mineral production proposed	49838 tonnes	43990 tones	
3c	Recovery of sailable/usable mineral from ROM production	96%	90%	About 10% of ROM generated as inter-burden waste.
3d	Quantity of mineral reject generation	Not Proposed	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Not Proposed	Not applicable	
3g	Grade of sub grade mineral generation	Not Proposed	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	Not applicable	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting using wagon drill of 110mm dia carried out.	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 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	3.020 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.57	1:060
3o	Total area put in use under different heads at the end of year		Covered under current (O/C) Workings 3.02 hja Used for waste disposal 0.926 Occupied by plant, buildings, residential, welfare buildings & roads 0.741 Other Purpose (Mineral storage, top soil,) 1.065

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3p	Production of	2017-18	91462	2017-18	49747
	ROM mineral	2018-19	91729	2018-19	48340
	during the last	2019-20	92455	2019-20	46980
	five year period	2020-21	92352	2020-21	48170
	as applicable	2021-22		2021-22	24980
		49993		2022-23	43990
		2022-23			
		49838			

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.
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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 done	
4b	Location of topsoil, OB and mineral reject dumps	ES part of the lease area backfilling proposed	ES part of the lease area	
4c	Number of dumps within lease area and outside of lease area	02 nos	02 nos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	02 nos	02 nos	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Garland drain 40mX1mX1m	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Garland drain 40mX1mX1m	

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4j	Number of settling ponds	Not proposed	01 nos	
4k	Specific comments of inspecting officer on waste dump management			Mining lease area is devoid of overburden. Mine waste is in the form 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	It is under process
5b	Area under backfilling of mined out area	0.229 ha	0.154 ha	
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	0.229 ha	0.154 ha	
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

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	PMCP report for 2022-23 not submitted so far.as per statute it is to be submitted before 01/07/2023. PMCP report of year 2021-22 have received in office.	Violation of rule 26(2) could not be issued as last date of submission of PMCP Report is 30/06/2023.
6b	Area available for rehabilitation (ha) .	Not Proposed	Not applicable	
6c	afforestation done (ha).	Not Proposed	Not applicable	
6d	No. of saplings planted during the year	51 trees	80 tree Waste land 70 trees other	
6e	Cumulative no .of plants	Proposed	WL - 870 trees OL - 305 trees	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not proposed	Rs - 20450/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Not applicable	
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	

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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	Periodical Air, Water, Noise Monitoring 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	Not applicable	
7c	Different grade of mineral sorted out at mines.	not proposed	Not applicable	

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7d	Any beneficiation process at mines	Not proposed	Not applicable	
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	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	80 nos - WL 70 nos - OL	Comulative WL - 870 OL - 305
8g	Survival rate	Not proposed	70%	

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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 satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Annual return - 2021-22 - Submitted Monthly return up to March 2023 - Submitted	Monthly Returns found submitted upto March ,2023 whereas Annual Returns for the year 2021-22.	AR of 2022-23 not submitted by the lessee. By statute Last date of submission of AR is 30/06/2023 so violation of rule 45(5)(c) not pointed out.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Shri A K Pandey Geologist - Shri Sridhar Pandey	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 3.02 hja Used for waste disposal 0.926 Occupied by plant, buildings, residential, welfare buildings & roads 0.741 Other Purpose (Mineral storage, top soil,) 1.065	As per Annual return	
9d	Scrutiny of Annual return on afforestation	80 nos - WL 70 nos - OL	80 nos - WL 70 nos - OL	

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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	ROM Stock 13542 tonne (March 2023)	Stock of such ROM were seen at the site.	AR of 2022-23 not submitted hence details of information furnished w.r.t. AR 2021-22
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR of 2022-23 not submitted hence details of information furnished w.r.t. AR 2021-22	AR of 2022-23 not submitted hence details of information furnished w.r.t. AR 2021-22 Ex. mine Price Rs.323.34/- per tonne Cost of production Rs. 283.95/-per tonne	
9h	Scrutiny of Annual return on fixed assets	AR of 2022-23 not submitted hence details of information furnished w.r.t. AR 2021-22	Rs 3392649/- As per AR - 2021-22	
9k	Scrutiny of Annual return on mining machineries	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	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	

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	15-MAY-23			
MCDR17	Rule 27(1)	15-MAY-23			
MCDR17	Rule 34(1)	15-MAY-23			

Date :**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines