

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-110

Mine code : 38MPR47024

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Kumar Shyamal Kishor, Head of Mines, M/s S,N,S (
Official with
Designation
- (iv) Date of Inspection : 13-JUN-23
- (v) Prev.inspection date : 06-MAR-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMWANI KHURD(8.59)/(7.89**
- (b) **Registration NO.** : **IBM/1171/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : JAMWANI KHURD
Taluka : V.GARH
Post office : JAMWANI KHURD
Pin Code :
FAX No. : 07674232580
E-mail : snsmhr@gmail.com
Phone : 07674232042/M.No. 08435802
- (f) Police Station :
- (g) First opening date : 01-JAN-83
- (h) Weekly day of rest : WED
2. Address for : SHRI MADAN LAL GROVER
correspondance : CIVIL LINES
KATNI (M.P.)
3. (a) Lease Number : MPR0229
(b) Lease area : 8.59
(c) Period of lease : 10
(d) Date of Expiry : 13-SEP-02
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	07-JUN-99
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	11-NOV-08
		MP modif under MCR 1960	02-MAY-14
		Mining Scheme rule 12 MCDR1988	05-MAY-14
		MP modif under 17(3) MCR 2016	15-JAN-18

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Five exploratory boreholes (core drilling) proposed against year under review.	On the date of inspection core drilling machine was found in operation . Proposed exploration work was supposed to be completed upto 31/03/2023.	Violation for the deviation pointed out through violation of rule 11(1) vide letter dated 22/06/2023
1b	Exploration over lease area for geological axis 1 or 2	Five exploratory boreholes (core drilling) proposed against year under review to convert entire mineralised area under G1 level of UNFC.	Entire mineralised area had proven under G2 axis of UNFC.	As entire mineralised area was supposed to be proven under G1 level of exploration upto 31/03/2023 (within five year period from the date of notification of MCDR,2017), violation of rule 12(4) pointed out vide letter dated 22/06/2023.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Engeo Tech Consultant ,1338 Vijaynagar jabalpur	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Engeo Tech Consultants ,1338, Vijaynagar Jabalpur.	-
1e	Balance reserve as on 01/04/20	122-2061589tonne	122- 209608tonne	Due to less production actual reserve are more.

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1f	General remarks of inspecting officers on geology, exploration etc	The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. Lime stone is soft and stratified. The limestone is bedded with intercalations of argillaceous material. Area still not explored under G1 Level of UNFC whereas exploration was supposed to be completed upto 22/07/2022. Violation of rule 12(4) pointed out vide letter dated 22/06/2023.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2666500 N to 2666370 N & 469670 E to 469850 E	2666500 N to 2666370 N & 469670 E to 469850 E	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for Overburden, topsoil & mineral proposed	Separate bench for Overburden, topsoil & mineral maintained	-
2c	Stripping ratio or ore to OB ratio	1:0.44	1:0.27	Slightly less advancement of OB bench than the proposed one.
2d	Quantity of topsoil generation in m3	17406 m3	14500 m3	Slightly less advancement of OB bench than the proposed one.

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2e	Quantity of overburden generation in m3	22056 m3	19000 m3	Slightly less advancement of OB bench than the proposed one.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of pit were observed in the light of approved proposals. Exploratory drilling was going on the date of inspection. Advancement of overall pit are slightly less than the proposed one. benches in ore and overburden maintained.. Approved proposals are two part, first one was valid upto 13/09/2022 i.e valid lease period and second one from 14/09/2022 to 31/03/2023 i.e. after extension of lease period.

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	198019 tonne	167000tonne	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not required as there is no mineral reject generation.	-

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3f	Quantity of sub grade mineral generation.	Nil	Nil	-
3g	Grade of sub grade mineral generation	Not proposed	Not required as there is no sub grade mineral generation envisaged,	
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	Drilling and blasting proposed with blast hole design of 25mX2.0mX2.9m(SpecingXBurden XDepth of hole)	Drilling & blasting in mineral benches done as per approved blast design.	-
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 open cast/underground (specify) AIR COMPRESSOR 175.000 CUM/MN 1 Non Electrical Opencast BACK HOE 1.000 CUM 2 Non Electrical Opencast DUMPER 16.000 TONNE 4 Non Electrical Opencast PUMPS (ELEC.) 99999.999 L/MN 1 Electrical Opencast ROCK DRILL (NONELEC.) 122.000 MM 1 Non Electrical Opencast WATER TANKER 6000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 2.000 CUM 1 Non Electrical Opencast	-

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes,	Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches in top soil, OB and mineral 1,1&1 (ii) Average height of benches in Top soil, OB and Mineral 2m,2m & 6m		
3m	Total area covered under excavation/pits	0.45hect	2.590 ha.(Existing Pit area)		-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.44	1:0.27		-
3o	Total area put in use under different heads at the end of year	3.60 ha.	3.60 ha.		-
3p	Production of ROM mineral during the last five year period as applicable	2018-19 199405 MT 2019-20 199990 MT 2020-21 199418 MT 2021-22 199948 MT 2022-23 198019 MT	2018-19=199350 MT 2019-20=199000 MT 2020-21=199400 M 2021-22=199000 MT 2022-23=167000 MT		
3q	General remarks of inspecting officers on method of mining etc.				Mining is proposed and done by opencast -A- mechanised. Development as well as production are almost as per proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	In place of separate dumping of topsoil & OB there are approved proposal for simultaneous backfilling of broken out area of barrier zone of road passing all along northern lease boundary line.	As per proposal top soil and OB generated during mining operation utilised for backfilling of broken out area fall on barrier zone for road passing all along norther lease boundary line.	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	Not applicable as entire generated OB and top soil utilised for backfilling as prioposed.	No deviation
4c	Number of dumps within lease area and outside of lease area	Not proposed	Not applicable as entir generated OB & top soil utilised for backfilling purpose.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable.	No deviation.
4e	Number of active and alive dumps.	Not proposed	Not applicable.	
4f	Number of dead dumps.	None	None	
4g	Number of dumps established.	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Garland drain already made in the past.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			utilisation of topsoil & OB generated during mining operations are as per approved proposal.

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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.	Full extraction of mineral from mined out area before starting backfilling proposed. However ultimate pit benches towards northern lease boundary line and broken out area area fall under 50m statutory barrier zone for the road passing adjacent to the norther lease boundary liine are matured for backfilling have proposed.	Pit is not matured for backfilling. However ultimate pit benches towards northern lease boundary line and broken out area area fall under 50m statutory barrier zone for the road passing adjacent to the norther lease boundary liine are matured for backfilling have taken into account for backfilling as per proposal .	
5b	Area under backfilling of mined out area	4500m2	3500m2	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	17400m3Proposed	Quantity of top soil generated during mining operation 14500m3 concurrently utilised for spreading over backfilled area.	
5d	Total area fully reclaimed and rehabilitated	4500m2	3500m2	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Existing pit is not matured for backfilling. Broken out area of mine fall under barrier zone for road passing adjoining to northern lease boundary line as well as ultimate pit benches on this section was proposed for backfilling followed by topping over it by top soil are in progress. Plantation over reclaimed area are in proposal.
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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 within stipulated time limit.	
6b	Area available for rehabilitation (ha) .	Rehabilitation NA during year under review i.e. 2022-23 not proposaed.		
6c	afforestation done (ha).	0.02hect	0.12hect	
6d	No. of saplings planted during the year	Not proposed	130	
6e	Cumulative no .of plants	Not proposed	630	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Not proposed	NA	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	4500m2ed	3500m2
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4500m2	3500m2
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	About so far 630 saplings planted over backfilled area as well as green belt zone.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	0.2hect
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Periodical environmental monitoring records maintained.

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Progressive closure operations revised in the latest approved document. Efforts towards progressive closure is acceptable.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	198019	142233.532tonne cement grade limestone.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	At mine head as per proposal.	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	
7d	Any beneficiation process at mines .	Not proposed.	Reportedly not carried out.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issues related with mineral conserwvation and . Entire mineral produced from the mine have market in cement plants located in near by area. Entire mineral produced from the mine either supplied to nearby cement plants or dispatched to their own registyered and stack yards. Any benificiation neither proposed nor required at present.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Separate removal and utilisation of top soil are in a practice.	
8b	Concurrent use or storage of topsoil	Proposed	As per proposal top soil generated during mining operation concurrently utilised in topping over backfilled area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed as entire OB and waste rock are proposed for backfilling. There is no reject generation envisaged.	As per approved proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As per approved proposal.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased wise reclamation of pit proposed.	As per approved proposal.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	As per approved proposal.	
8g	Survival rate	80%	90%	-
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling on haul roads were evidenced during inspection.	
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 improvement.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR & AR online submitted.	MR upto Jun,2023 & AR for 2022-23 online submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager SHRI GANESH KUMMALWAR Mining Engineer in charge SHRI GANESH KUMMALWAR Geologist in charge SHRI ARVIND KUMAR TAMRAKAR	
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 2.14 2.14 (ii) Covered under current (O/C)Workings 0.000 0.45 0.45 (iii) Reclaimed-rehabilitated 0.000 0.45 0.45	
9d	Scrutiny of Annual return on afforestation	Given.	Within lease area (b) Outside leasearea (i) Number of trees planted during the year 130 0 (ii) Survival rate in percentage 90.00 0	OK
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given.	Mineral reject quantity Nil	There is no mineral rejaect generation.

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given.	ROM Stock Nil Graded Ore Stock Opening stock at mine head(in tonne) Production (intonne) Dispatches from mine head(in tonne) Closing stock at mine head (intonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 867t 167000t 142233t 25633t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale Value Rs. 369/29 Ex Mine Price Rs. 369/29 Cost of Production Rs. 203/85	In calculation of cost of production certain taxes of central as well as state have not taken in to account,
9h	Scrutiny of Annual return on fixed assets	Given.	Value of Fixed Assets indicated as Rs. 9744691/-	
9k	Scrutiny of Annual return on mining machineries	Given.	Type of machinery Capacity of each unit No. of units Electrical/Non-Electrical (specify) Used in opencast/underground (specify) AIR COMPRESSOR 175.000 CUM/MN 1 Non Electrical Opencast BACK HOE 1.000 CUM 2 Non Electrical Opencast DUMPER 16.000 TONNE 4 Non Electrical Opencast PUMPS (ELEC.) 99999.999 L/MN 1 Electrical Opencast ROCK DRILL (NONELEC.) 122.000 MM 1 Non Electrical Opencast WATER TANKER 6000.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 2.000 CUM 1 Non Electrical Opencast	

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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)	22-JUN-23				
Rule 12(4)	22-JUN-23				
Rule 45(7)	22-JUN-23				

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines