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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-87

Mine code : 38MPR18123

- (i) Name of the Inspecting : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Anil Nagrath, Mine Owner & Shri Gyandatt Dixit,
Official with
Designation
- (iv) Date of Inspection : 16-NOV-22
- (v) Prev.inspection date : 18-DEC-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KACHHGAON (1.821 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : KACHHGAON
Taluka : VIJAYRAGHAVGARH
Post office : DIWAN SIDING
Pin Code : 483880
FAX No. : 07622- 230466
E-mail : N. A.
Phone : 07622- 230388
- (f) Police Station :
- (g) First opening date : 13-JUL-84
- (h) Weekly day of rest : SUN
2. Address for : ANIL KUMAR NAGRATH
correspondance BHARAT LIME CO., CIVIL LINES,
KATNI (M.P.) 483501
3. (a) Lease Number : MPR0190
- (b) Lease area : 1.82
- (c) Period of lease : 10
- (d) Date of Expiry : 22-MAY-92
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : ANIL KUMAR NAGRATH
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : ANIL KUMAR NAGRATH
BHARAT LIME CO. CIVIL LINES
KATNI MADHYA PRADESH
Phone: 07622- 230388
FAX : 07622- 230466

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	13-JAN-95
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	09-AUG-00
		Mining Scheme rule 12 MCDR1988	09-AUG-00
		Mining Scheme rule 12 MCDR1988	22-JUL-05
		Renewal under rule 24 MCR1960	18-DEC-09
		MP modif under MCR 1960	12-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	No proposals	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	No proposals	The lease area already explored upto G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals	The area already explored upto G1	
1e	Balance reserve as on 01/04/20		As on 01.04.2022 111-259458 tonnes 122-324314 tonnes 211-125228 222-125228 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The ML area lies along the foot hill of the Kymore hill range. 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.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to extend quarry-1 towards North & East.	Overall mining working carried out as per the proposals	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench proposed for OB during the year. Separate benches in ore were also proposed.	Separate benches in OB and minerals maintained.
2c	Stripping ratio or ore to OB ratio	1:1.51	1:1.40
2d	Quantity of topsoil generation in m3	No proposals	Not applicable
2e	Quantity of overburden generation in m3	5790 cubic meter	5200 cubic meter
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Production & development work done as per proposal.

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	Production proposal - 7010 Tones	6730 Tones	
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 80% of total ROM	About 80% acheived as proposed	
3d	Quantity of mineral reject generation	1753 Tones	Nil	
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	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study proposed	No analysis or beneficiation study carried out for subgrade mineral and reject	
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in mineral benches proposed	Drilling & blasting in mineral benches carried out	
3k	Provision of mining machineries in mineral benches	Proposed	Dumper - 16 Tonnes - 01 numbers Front end Loader - 1.20 Cum -01 numbers Water Tanker - 5000 ltrs - 01 numbers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Proposed	Separate benches in OB and minerals maintained.	
3m	Total area covered under excavation/pits	Under excavation pit - 1.25 ha	Under excavation pit - 1.25 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.51	1:1.40	
3o	Total area put in use under different heads at the end of year	Covered under corrent pit - 1.25 ha Waste disposal - 0.10 ha Other purpose - 0.20 ha	Covered under corrent pit -1.25 ha Waste disposal - 0.10 ha Other purpose - 0.20 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - Nil 2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22 -7010	2017-18 - Nil 2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22 - 6730	Nil production reported during last four year.

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3q General remarks of inspecting officers on method of mining etc.

Opencast Other than fully mechanised method of mining were being carried out in the lease area. The excavation in OB has been carried out by HEMM.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps of OB & Mineral proposed.	Separate dumps of OB & Mineral maintained	
4b	Location of topsoil, OB and mineral reject dumps	01 temporary dump in Northern part of the quarry	01 temporary dump in Northern part of the quarry	
4c	Number of dumps within lease area and outside of lease area	01 temporary dump in Northern part of the quarry	01 temporary dump in Northern part of the quarry	
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.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable	
4j	Number of settling ponds	Proposed	Constructed as per proposal	

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4k	Specific comments of inspecting officer on waste dump management	The whole ML area is mineralized and hence temporary dumping has been proposed and were being carried out. backfilling also proposed near Pillar no 3.
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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 proposed before starting backfilling	full extraction of mineral from mined out area adopted before starting backfilling	
5b	Area under backfilling of mined out area	0.13 ha	Backfilling not started so far.	Violation pointed out under rule 11(1).
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	to be used for plantation	used for plantation	
5d	Total area fully reclaimed and rehabilitated	Not proposed	No area has been fully reclaimed & rehabilitated	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Working pit area not matured so far for reclamation & rehabilitation. Backfilling not started so far. Violation pointed out under rule 11(1).

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).	Yes	Submitted	
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		Within the lease area - 80 nos. Survival raete - 75%	
6e	Cumulative no .of plants		Not provided.	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Not mentioned	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.13 ha	Not done	Violation pointed out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable	

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6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			It was observed during inspection that the lessee had been carrying out PMCP related works as per proposal.

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.	Mechanised	Mechanised	
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 proposed

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	topsoil to be utilised forplantation purpose	No top soil generated during the year	
8b	Concurrent use or storage of topsoil	topsoil to be utilised for plantation purpose	topsoil utilised for plantation purposes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	01 temporary dump in Northern part of the quarry	01 temporary dump in Northern part of the quarry	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	backfilling proposed	backfilling adopted	
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)	Yes	within lease area - 80 tree planted	

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8g	Survival rate	Around 75%	Around 75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine area is fairly good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. submitted upto-Oct-2022 A.R. submitted upto-2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Shri Ritesh Kumar Geologist - Shri Ajay Pandey	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under corrent pit -1.25 ha Waste disposal - 0.10 ha Other purpose - 0.20 ha	
9d	Scrutiny of Annual return on afforestation		within lease area - 80 tree planted Survival rate - 75%	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Opening stock - 1349.020 Tonnes Production - 6730 Tonnes Dispatch - 1050 Tonnes Closing Stock - 7029.020 Tones	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex mine price - Rs 258/- Production cost Rs 227.78/-	

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9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is mentioned as nil.
9k	Scrutiny of Annual return on mining machineries	Dumper - 16 Tonnes - 01 numbers Front end Loader - 1.20 Cum -01 numbers Water Tanker - 5000 ltrs - 01 numbers

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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)	21-DEC-22			
MCDR17	Rule 31(1)	21-DEC-22			
MCDR17	Rule 34(1)	21-DEC-22			
MCDR17	Rule 45(7)(a)	21-DEC-22			

Date :**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines