

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-72

Mine code : 38MPR18033

- (i) Name of the Inspecting Officer and ID No. : **KQ06) NARESH KUMAR KATARIYA**
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine Official with Designation : Shri Anand Goenka (Prop.), Shri Rohit Singh (Mining E)
- (iv) Date of Inspection : 12-JUL-21
- (v) Prev.inspection date : 06-MAR-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HARRIYA (17.46 AC)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : HARRIYA
Taluka : VIJAYRAGHAVGARH
Post office : KYMORE
Pin Code : 483501
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 17-JAN-79
- (h) Weekly day of rest : SUN
2. Address for correspondence : M/S SUKHDEO PRASAD GOENKA
GOENKA BHAWAN, STATION ROAD, KATNI (M.P.) 483501
3. (a) Lease Number : MPR2534
- (b) Lease area : 7.07
- (c) Period of lease : 20
- (d) Date of Expiry : 16-JAN-09
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SUKHDEO PRASAD GOENKA
 GOENKA BHAWAN STATION ROAD
 KATNI MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : SUKHDEO PRASAD GOENKA
 GOENKA BHAWAN STATION ROAD
 KATNI MADHYA PRADESH
 Phone: N. A.
 FAX : N. A.

Mining Engineer

Name : G.D.CHAMADIA, Full Time
 Qualification : B.E (MINING)
 Appointment/ :
 Termination date

Manager

Name : D.N.DEO
 Qualification : AMIE, SECOND CLASS MANAGER CERTIFICATE
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12-FEB-04
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	12-DEC-11
		Mining Scheme rule 12 MCDR1988	17-APR-15
		MP modif under 17(3) MCR 2016	20-JUN-17
		MP review under 17(1) MCR 2016	22-MAY-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 exploratory bore hole were proposed in the year 2018-19.	Nil	Violation was already pointed out from this office under rule 11(1) for exploration on 19/05/2020.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Exploration was not done in the RY.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed in the year 2018-19 to explore NW and SE part of the lease for the continuity of the lease mineral in the entire lease area under G-1 axis	2.94 Hect area is under G-1. Remaining 4.125 Hect area is required to be explored.	Violation was already pointed out for exploration from this office under rule 11(1) for exploration on 19/05/2020.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01-04-2021 111-1.66 Million Tonnes	

1f	General remarks of inspecting officers on geology, exploration etc	The lease area is on the southern side foothills of the Kymore hill range. Mineralization of limestone was observed up to 30 mtrs. Area has large pit as PIT - A upto 30 mtrs. In past exploratory Bore Holes drilled from collar level. The rocks are structurally undisturbed and show almost E-W strike having dip 10-12 degree in north side slope.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Southern & Western part of existing PIT-A	Development was observed in Southern & Western part of existing PIT-A near coordinates N 24D 4M 47.03S E 80D 38M 47.8S	Mine development was lagging from the proposal of approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	6 Benches proposed, one bench in Soil, two benches in Dolomatic OB and two benches in Limestone.	6 Benches found development, one bench in Soil, two benches in Dolomatic OB and two benches in Limestone.	Location of the mine development was lagging from the proposal of approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017.
2c	Stripping ratio or ore to OB ratio	1:1.67	1:1.7	
2d	Quantity of topsoil generation in m3	38619 m3	35000 m3	

2e	Quantity of overburden generation in m3	15985 m3	Nil	Mine development was lagging from the proposal of approved document. Violation pointed out for the same under rule 11(1) of MCDR-201
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Location of the mine development was lagging from the proposal of approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017.

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	359667 Tonnes	99980 Tonnes	As per available documents, EC of the lease is One Lakh TPA.
3c	Recovery of sailable/usable mineral from ROM production	ROM proposed to directly dispatched form the mine.	As per available records, ROM directly dispatched from the mine	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	

3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not done as per available records.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Jack Hammer, Wagon Drill, Excavator and 04 Dumpers observed during the inspection.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5-6m height proposed in OB and Mineral	In the northern and eastern side of the lease, height of the benches found more than the proposal at some places between BP no. 05 to BP no. 07 and some other places. And, it was also observed that at some places in the western side width of the benches found very less than approval.	Violation pointed out under rule 11(1) of MCDR- 2017.
3m	Total area covered under excavation/pits	5.5 Hect	3.764 Hect.	Location of the mine development was lagging from the proposal of approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.3	1: 0.4	
3o	Total area put in use under different heads at the end of year	6.72 Hect at the end of plan period.	Approx. 5.85 Hect	

3p	Production of ROM mineral during the last five year period as applicable	2020-21 - 359667 T 2019-20 - 330784 T 2018-19 - 319025 T 2017-18 - 483143 T	2020-21 - 99980 T 2019-20 - 99980 T 2018-19 - 99990 T 2017-18 - 100000 T	There is no online AR before 2017-18.
3q	General remarks of inspecting officers on method of mining etc.			In the northern and eastern side of the lease, height of the benches found more than the proposal at some places between BP no. 05 to BP no. 07 and some other places. And, it was also observed that at some places in the western side width of the benches found very less than approval. Mine development is found lagging from the proposal of approved document. Violation pointed out under rule 11(1) of MCDR-2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	The excavated OB from the lease was dumped to outside the lease area without any valid transit pass from the State Govt. Violation pointed out for the same under rule 11(1) of MCDR-2017

4b	Location of topsoil, OB and mineral reject dumps	Yes	D-1 - Near BP-21 south side D-2 - Near BP-1 west side D-3 - Near BP-2 west side MS1 - Near BP-9 east side MS2 - Near BP-7 east side MS3 - Out side the lease area in SE	
4c	Number of dumps within lease area and outside of lease area	01 Waste dump - out side the lease area 05 dumps - inside the lease area	01 Waste dump - out side the lease area 05 dumps - inside the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All 05 dumps are proposed temporary and within UPL. One dump MS3 is out side the lease area in SE	All 05 dumps are proposed temporary and within UPL. D-1 - Near BP-21 south side D-2 - Near BP-1 west side D-3 - Near BP-2 west side MS1 - Near BP-9 east side MS2 - Near BP-7 east side One dump MS3 is out side the lease area in SE	
4e	Number of active and alive dumps.	Active dumps - 04	Active dumps - 04	
4f	Number of dead dumps.	Inactive Dumps - 02	Inactive Dumps - 02	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	construction of Retaining wall not proposed in the RY.
4i	Length of Retaining wall or garland drain all along dumps	Garland drain - along the dump. Length not specified.	Garland drain - Approx. 300 m	

4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer on waste dump management			05 dumps are proposed temporary and within UPL. One dump MS3 is out side the lease area in SE direction of the mine in the additional land allotted for ancillary activities which is attached with lease area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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 is not proposed in the approved period.	Backfilling not proposed.	
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)	Storage of top soil for future use	Storage of top soil for future use	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling and reclamation of the mined out area not proposed in the approved period. Area not matured for backfilling.

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	Not submitted	The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2020-21. Violation pointed out for the same under rule 11(1) of MCDR-2017.
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	Not specified	Approx. 500 plants as per available record.	
6f	Any other method of rehabilitation	Not proposed	Not done	
6g	Cost incurred on watch and care during the year	Not specified	Rs 60,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	
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	Plantation was proposed for developing the green belt in the 7.5m barrier zone from BP no. 05 to BP no. 12.	Sufficient plantation was not done in the proposed area.	Violation pointed out under rule 11(1) of MCDR-2017.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	Not done	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation.	Plantation.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation was proposed for developing the green belt in the 7.5m barrier zone from BP no. 05 to BP no. 12. But, no sufficient plantation was observed in the proposed area. The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2020-21. Violations pointed out under MCDR-2017.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral to be dispatched to different industries	ROM mineral dispatched to different industries without any sorting or beneficiation.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not done	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not done	
7d	Any beneficiation process at mines .	Not proposed	not done	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM mineral proposed to be dispatched to different industries as a marchant miner. Dolomatic waste is stacked in the dump for future use.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The topsoil is proposed to be utilized for spreading on the backfilled area after full extration of the mineral	Soil is seperetely removed and restored seperately for future use.	
8b	Concurrent use or storage of topsoil	Storage of topsoil	Storatage of topsoil in soil dump.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	03 soil dumps & 03 OB dumps	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	proposed in conceptual plan after full extraction of mineral	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Not done	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	approx. 200 plant in the lease area	
8g	Survival rate	80	80	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation was observed in the and around the boundary of the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Monthly returns from Apr-20 to Mar-21 and Annual return of year 20220-21 submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer - Shri Rohit Singh Geologist - Vinod Kushwaha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Current working - 3.34 Hect. Already exploited - 3.04 Hect	In the Part-I of AR, Land area utilization details are found incorrect. Violation pointed out under rule 45(7) of MCDR-2017
9d	Scrutiny of Annual return on afforestation	Yes	Nil	Violation pointed out for the same under rule 11(1) of MCDR.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM opening stock - 41405.935 tonnes ROM production - 99980 tonnes ROM closing stock - 103767.875 tonnes	In the Part-V Sec-3 for Limestone, data related to Reserve and Resources estimation at the end of year have been filled "Zero". In the Part-V Sec-4.2 (C) for Limestone, data related to total quantity of Overburden/Waste removed during the year(tones) is filled as "Zero" which is not matching with other office records. Violation pointed out for the same under rule 45(7) of MCDR 2017.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex mine price - 330 /- Production cost - 327.77 /- Sale value - 330 /-	
9h	Scrutiny of Annual return on fixed assets	Yes	In the Part-II A, Capital Structure related data have been filled "Zero".	Violation pointed out for the same under rule 45(7) of MCDR-2017
9k	Scrutiny of Annual return on mining machineries	Yes	Mining Machinery details not found updated	Instructed to update the details.

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)	23-NOV-21			
MCDR17	Rule 26(2)	23-NOV-21			
MCDR17	Rule 33	23-NOV-21			
MCDR17	Rule 45(7) (a)	23-NOV-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines