

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :**

**Mine code : 38MPR12078**

- (i) Name of the Inspecting : **NQ08** ) **KATHROJU NAVEEN**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri V.K Chakunde DGM Mines , Shri Siyaram Mishra Geo  
Official with  
Designation
- (iv) Date of Inspection : 13-FEB-23
- (v) Prev.inspection date : 18-JUL-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GHURSAL LST MINE 6.773 HA**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : DHAR  
Village : GHURSAL  
Taluka : GANDHWANI  
Post office : JEERABAD  
Pin Code : 454446  
FAX No. : NA  
E-mail : NA  
Phone :
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for :  
correspondance
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 10-NOV-20

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	NA	
1b	Exploration over lease area for geological axis 1 or 2	Not Proposed	15 nos bore holes Drilled 2022-23	The drilling work is reported as started from 3/06/2022 and completed on 19/11/2022. Total 15 nos hole drilled.  Entire lease area explored under G-1 level of exploration
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs. 487575/-	Unique Geo -Tech & Driller Address -30 Jawahar Marg Rajgarh (Dhar) Madhya Pradesh.  Rs. 487575/-	Lessee reported due to covid 19 pandemic situation The drilling work is started from 3/06/2022 and completed on 19/11/2022. Total 15 nos hole drilled.  Entire lease area explored under G-1 level of exploration

1d	Balance area to be explored to bring Geological axis in 1 or 2	G3-1.8552 Ha.	G3-1.8552 Ha.	Lessee reported due to covid 19 pandemic situation The drilling work is started from 3/06/2022 and completed on 19/11/2022. Total 15 nos hole drilled.
		G4-2.3100 Ha	G4-2.3100 Ha	Entire lease area explored under G-1 level of exploration
1e	Balance reserve as on 01/04/20	250527T	542963T	As per approved plan total Reserve(122) was 550553 Tones on 1/04/2021 And proposed production for year 2021-22 was 300026 tones.(This Mining plan was prepared for expansion of EC capacity)  Actual production for year 2021-22 was 7590 tones.  Violation has issued under rule 11(1) against the backlog in achieving the proposal.

1f	General remarks of inspecting officers on geology, exploration etc	As per approved plan total Reserve(122) was 550553 Tones on 1/04/2021 And proposed production for year 2021-22 was 300026 tones.(This Mining plan was prepared for expansion of EC capacity)  Actual production for year 2021-22 was 7590 tones  Violation under rule 11(1) was issued.
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## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposed in eastern directoion of bock A	Not upto the proposal due to no achieving the targetted production.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed	Not Applicable	There is no top soil and overburden in proposed working location.  These is only mineral bench (Limestone bench)
2c	Stripping ratio or ore to OB ratio	not proposed	Not applicable	As there is no Overburden available on the proposed location stripping ratio isneither proposed nor applicable.

2d	Quantity of topsoil generation in m3	Not Proposed	Not Applicable	
2e	Quantity of overburden generation in m3	Not Proposed	Not Applicable	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development was not upto the proposed caused by the less production against the proposal.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	300026 T	7590 T	Only 7590T of production has achieved against the proposed 300026 T for which violation has issued under rule 11(1).
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	there is no wate generation observed or proposed.
3d	Quantity of mineral reject generation	Not Proposed	Not Applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not Applicable	no menral reject found reported.
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
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	proposed wagon as per the proposal drilling of 110mm dia	
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator, Dumpers and drills proposed.	as per the proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed bench height of 5-6m	As per the proposal.
3m	Total area covered under excavation/pits	1.442 ha area proposed under pits as per the yearwise development plan.	0.1787 ha is reported under excavations.
3n	Ore to OB ratio for the pit/mine during the year.	Not Proposed	Not Applicable

3o	Total area put in use under different heads at the end of year	Area under Mining -1.5507 Road-0.015 Other -0.005 (Afforestation )	0.1787 0.1680 0.006 (Afforestation )	Mining plan period of this lease start from year 2021-22. As per approved plan , Area under mining( area put to use at the start of mining plan) is 0.1087 and proposed working (2021-22) area is 206mX 70m = 14420 Sqm so total proposed area under mining pit will be 1.5507(1.442 ha +0.1087 ha) Actual area is 0.1787.
3p	Production of ROM mineral during the last five year period as applicable	2017-18 3582T 2018-19 4971T 2019-20 5434T 2020-21 7600T 2021-22 300026T 2022-23 (Till Jan2023) 150467 T	2017-18.....0.00 T 2018-19.....4971T 2019-20.....0.00T 2020-21.....7400T 2021-22.....7590T 2022-23 (Till Jan2023).....102639.5 T	Reported production was very less due to against the proposed for which violation has issued under rule 11(1) of MCDR - 2017.
3q	General remarks of inspecting officers on method of mining etc.			mine development and reported production was very less against the proposal against which violation has issued 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)	Not proposed	Not Applicable	



4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Not Applicable	
4c	Number of dumps within lease area and outside of lease area	Not proposed	Not proposed	as there is now waste or OB generation dumps were not proposed.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not Applicable	
4e	Number of active and alive dumps.	Not proposed	Not Applicable	
4f	Number of dead dumps.	Not proposed	Not Applicable	As waste generation not available dumps not existed in lease.
4g	Number of dumps established.	Not proposed	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Not Applicable	Garland drain prepared along the lease boundary to divert the surface run off .
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Not Applicable	
4j	Number of settling ponds	Not proposed	one settling pond established.	
4k	Specific comments of inspecting officer on waste dump management			

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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.	Not proposed	Not Applicable	

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5b	Area under backfilling of mined out area	0.0525 ha proposed to backfill.	0.0525ha backfilled along the old excavated 7.5m barrier zone.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling and plantation was done on the old excavated area of the 7.5m barrier zone.

#### Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	TO be submitted	Yes Submitted.	
6b	Area available for rehabilitation (ha) .	0.0525 ha	0.0525 ha area backfilled along the boundary of the 7.5m zone.	
6c	afforestation done (ha).	0.0525 ha area proposed for plantation	0.0585 ha area plantation done on the 7.5m backfilled and other area	
6d	No. of saplings planted during the year	58 No of plants proposed	70 saplings planted.	
6e	Cumulative no .of plants	58	168	
6f	Any other method of rehabilitation	Not proposed	100 m Fencing has been carried out along lease boundary , garland drain prepared , 1 settling pond prepared	
6g	Cost incurred on watch and care during the year	Not proposed		

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	525 sq m proposed to backfill	0.0525 ha area was backfilled along the boundary.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1312 Cu.m	1312 Cu.m
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	58	70 no of saplings planted during the RY.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not propoed	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	fencing proposed for 100m and 10 sapling sproposed to be planted	Fencing of 100m erected and saplings planted.
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per the propsal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Backfilling and planttaion done along the boundary of the 7.5m barrier zone which depleted by old existing pits and 100m fencing erected along the bondary.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	300026 T of ROM dispatch was proposed grade wise sorting anot available.	7590T of ROM dispatched from mine head.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed.	All the ROM is of Cement grade coroline and Nodular limetone no grade wise sorting required.	
7c	Different grade of mineral sorted out at mines.	Not proposed	Nil	
7d	Any beneficiation process at mines	Not proposed	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	the ROM generated is nodular and coroline Limestone of cement grade hence grade wise sorting is not required and ony 7590T lime stone produced.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	not proposed	Nil	
8b	Concurrent use or storage of topsoil	Not proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	There is no overburden, waste rock, rejects and fines dumpsin proposed working location.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	reclamation by backfilling proposed on the 7.5m barrier zone exacated by old pit.	backfilling done on the proposed area.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	58 plants proposed on the backfilled area.	70 saplings were planted on the proposed site.	
8g	Survival rate	80%	60% as per the AR ssubmitted.	
8h	Water sprinkling on roads to control airborne dust	proposed	as per the proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			concurrent use of top soil not observed as the Top soil not available in the lease.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		annual return and monthly return submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer in charge VIJAY KESHAV CHAKUNDE Geologist in charge SIYARAM MISHRA	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		1.Covered under current (O/C) Workings ..... 0.179ha 2. Reclaimed/Rehabilitated ..... 0.052 ha 3.Occupied by plant, buildings, residential, welfare buildings & roads ..... 0.168ha	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 70		

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	production 7590.00 T and dipatch 13282.070 T of the cement grade limestone reported	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	ex mine price is 267/- productioncost is also 267/-	As the output is being used for the captive cement plant consumption Ex mine price and production cost are the same.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in Rupees) 1042000/-	
9k	Scrutiny of Annual return on mining machineries	hydraulic shovel 1 Tipper 3 Air Compressor 1 for drilling	

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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)	04-MAY-23			

**Date :**

**(KATHROJU NAVEEN)**

Indian Bureau of Mines