

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/DHAR/LST.61

Mine code : 38MPR12077

- (i) Name of the Inspecting : **NQ08**) **KATHROJU NAVEEN**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri V.K Chankundey DGM Mines, Siyaram Mishra Geologi
Official with
Designation
- (iv) Date of Inspection : 13-FEB-23
- (v) Prev.inspection date : 01-MAR-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GHURSAL LST MINE 8.941 HA**
- (b) **Registration NO.** : **IBM/15003/2013**
- (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 : NA
- (f) Police Station : NA
- (g) First opening date : 15-OCT-18
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SATGURU CEMENT PVT. LTD.
601/1, AIREN HEIGHTS, PU-3
SCHEME NO.54 A.B.ROAD,
INDORE 452010 ,MP. DHAR
MADHYA PRADESH
Phone:NA
FAX :NA

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 nos bore holes Proposed in 2020-21	Drilling completed in 22-23.	The drilling work reported as carried out from 01/07/2022 and completed on 26/07/2022. Total 10 nos Bore hole drilled
1b	Exploration over lease area for geological axis 1 or 2	10 nos bore holes Proposed in 2020-21	Entire lease area explored under G-1 level of exploration	The drilling work reported as carried out from 01/07/2022 and completed on 26/07/2022. Total 10 nos Bore hole drilled
1c	Exploration Agencies and Expenditure in lakh rupees during the year	proposed in 20-21.	Unique Geo -Tech & Driller Address -30 Jawahar Marg Rajgarh (Dhar) Madhya Pradesh. Rs. 226324/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2-6.70 Ha. G3-2.241 Ha	Total 10 nos Bore hole drilled. Entire lease area explored under G-1 level of exploration	

1e	Balance reserve as on 01/04/20	3,42,285 T	5,93,304T	As per the last approved mining plan dated 24/11/2020 the reserves available at mine were 6,65,629T out of which it is proposed to produce 3,22,774 T and against which annual production of 2021-22 72,325T depleted thus the reserves available on 01.04.2022 are 5,93,304 T.
1f	General remarks of inspecting officers on geology, exploration etc			As per the last approved mining plan dated 24/11/2020 the reserves available at mine were 6,65,629T out of which it is proposed to produce 3,22,774 T and against which annual production of 2021-22 72,325T depleted thus the reserves available on 01.04.2022 are 5,93,304 T.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	22° 23'48.07" N to 22° 23' 54.32" N and 75° 03' 20.01" E to 75° 03' 29.24" E	Not upto the proposal.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0.05	Not Applicable	
2d	Quantity of topsoil generation in m ³	Not Proposed	Not Applicable	There is no top soil in proposed working location hence no proposal for the topsoil given.
2e	Quantity of overburden generation in m ³	554 Cu.m	3376 Cu.m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not Proposed	Not Applicable	There is no top soil and overburden in proposed working location. These is only mineral bench (Limestone bench)

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	

3b	Quantity of ROM mineral production proposed	300274 Tones	49975T of Limestone produced	The proposed production for year 2021-22 was 300274 tones. Actual production for year 2021-22 was 49975 tones during the year 2021-22 (previous) EC,CTO capacity was 50000 Tones per year only. Therefore production during the year 2021-22 has carried out as per EC capacity. Enhanced EC received on 23/03/2022 and CTO received on 09/06/2022 for 300274T.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	there is no waste or reject reportedly found
3d	Quantity of mineral reject generation	Not Proposed	Not Applicable	the recovery was reported as 100% , no mineral reject details reported.
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Not Applicable	As there is no mineral reject generation found the deatils required here are not applicable.
3f	Quantity of sub grade mineral generation.	Not Proposed	Not Applicable	Entire generate limestone is of good quality for captive consumption wih 100% recovery.
3g	Grade of sub grade mineral generation	Not Proposed	Not Applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	Not Applicable	Segregation of sub grade mineral not proposed as there is no generation of Subgrade mineral found.
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 Drilling 100 mm dia holes with 6m depth and blasting by explosives.	As per the proposal	
3k	Provision of mining machineries in mineral benches	proposed working wth hydraulic excavator and dumpers	As per the proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 6m bench height is proposed.	As per the proposal	
3m	Total area covered under excavation/pits	4.13ha	2.5398ha	
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	Total area proposed during thre proposal period was 5.42ha	total area put under different heads reported as 2.63 ha	

3p	Production of ROM mineral during the last five year period as applicable	2017-18 21000T 2018-19 21750T 2019-20 22500T 2020-21 22500T 2021-22 300274T 2022-23Till (Jan 2023) 250187T	2017-18.....0T 2018-19.....21746 T 2019-20.....0T 2020-21.....22350T 2021-22....49975T 2022-23Till (Jan 2023)169889.32T
----	--	---	--

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

The proposed production for year 2021-22 was 300274 tones. Actual production for year 2021-22 was 49975 tones during the year 2021-22 (previous) EC,CTO capacity was 50000 Tones per year only. Therefore production during the year 2021-22 has carried out as per EC capacity. Enhanced EC received on 23/03/2022 and CTO received on 09/06/2022 for 300274T.

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	proposed in 7.5m barrier	

4c	Number of dumps within lease area and outside of lease area	Not Proposed	Not Applicable	
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	
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	430 m Garland drain prepared along the lease boundary
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Not Applicable	430 m Garland drain prepared along the lease boundary
4j	Number of settling ponds	Not Proposed	Settling pond prepared	
4k	Specific comments of inspecting officer on waste dump management			As the mineral is found from the surface itself OB and TOPsoil not generated and garland drain prepared along the Lease Boundary.

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.	Not Proposed	Not Applicable	There is no completely mined out area to start Backfilling.

5b	Area under backfilling of mined out area	Proposed 0.1125 ha of the 7.5m boundary excavated by old pit.	Backfiled 0.1125 ha of the 7.5m boundary excavated by old pi	Backfilling has been carried out at 7.50 barriers zone which was excavated by old pit. Backfilling proposal was made on same place in approved mining plan.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	0.1125 ha	0.1125 ha	0.1125 ha area reclaimed & rehabilitated by backfilling and plantation
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Topsoil utilisation not found as the topsoil availability not found in the mine.

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).	To b submitted	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	10	920 saplings planted.	Reportedly plantation increased during the process of EC enhancement

6e	Cumulative no .of plants	135 cumulative saplings proposed	1045 plants on cumulative reported.
6f	Any other method of rehabilitation	Not Proposed	Not Applicable
6g	Cost incurred on watch and care during the year	Not Proposed	Not Applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.1125 ha proposed to be backfilled.	0.1125 ha area backfilled on the excavted 7.5m barrier zone as proposed.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1688 cum of voild proposed	As per the proposal 0.1125 ha area was backfilled.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	125 trees proposed on the backfilled area.	0.1175ha area afforestrated with plants.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Not Applicable
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	125 no of plants propose don the backfilled area.	Total 920 saplings planted covering the backfilled and 7.5 m narrier area.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.1175ha area proposed for plantstion	plantation done on 0.5325 ha area	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Backfilling and plantation.	Backfilling and plantation.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes peoposed.	Periodic moiniting of the environment ha been practicing.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			backfilling done on the 7.5m barrier zone a proposed and plantaion done on it. 100 m Fencing has been carried out along lease boundary , 430 m garland prepared , 3 settling pond prepared.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	300274T of ROM dispatch proposed	49975T of ROM dispatched	There is no sorting proposed or practicing.

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	
7d	Any beneficiation process at mines .	Not Proposed	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The proposed production for year 2021-22 was 300274 tones. Actual production for year 2021-22 was 49975 tones during the year 2021-22 (previous) EC,CTO capacity was 50000 Tones per year only. Therefore production during the year 2021-22 has carried out as per EC capacity. Enhanced EC received on 23/03/2022 and CTO received on 09/06/2022 for 300274T.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Not Applicable	There is no top soil in proposed working location.
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	There is no top soil in proposed working location.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Not Applicable	There is no overburden, waste rock, rejects and fines dumps in proposed working location.
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)	Yes	As per the proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	As per the proposal	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	As per the Proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Topsoil and OB generation not found in the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

9a	Status of submission of Monthly and Annual returns		Monthly return submitted on time Annual return submitted on time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer VK chakundey Geologist Siyaram Mishra	Mining Engineer VK chakundey Geologist Siyaram Mishra
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining 2.540ha PLANTATION) 0.420ha Reclaimed/Rehabilitated 0.113ha Work done under progressive mine closure plan during the year 0.532	
9d	Scrutiny of Annual return on afforestation	Number of trees reported in annual return 920 within the lease and 165 outside the lease	Good no of plants found
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Not found
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Cement grade stock of 133.660 available	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is 255.14	Cost of production is 255.14
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset given as Rs.1042000/-	
9k	Scrutiny of Annual return on mining machineries	Air Compressor 1 Shovel 1 Tipper 3	Air Compressor 1 Shovel 1 Tipper 3

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

Date :

(KATHROJU NAVEEN)

Indian Bureau of Mines