

I/21944/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-

Mine code : 38MPR47127

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Digvijay Singh Bisen, QP
Official with
Designation
- (iv) Date of Inspection : 31-OCT-23
- (v) Prev.inspection date : 14-MAR-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (2.19 HA)**
- (b) **Registration NO.** : **IBM/10588/2012**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MADHYA PRADESH
- District : KATNI
- Village : NANHWARA
- Taluka : BADWARA
- Post office : BADWARA
- Pin Code :
- FAX No. : NA
- E-mail : congress.karan @yahoo.com
- Phone : 9669665667
- (f) **Police Station** :
- (g) **First opening date** : 21-JUL-03
- (h) **Weekly day of rest** : SUN
2. **Address for** : SHRI KARAN SINGH CHAUHAN
correspondance STATION ROAD, KATNI (M.P.) 483501
3. (a) **Lease Number** : MPR2043
- (b) **Lease area** : 2.19
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 24-JUN-23
4. **Mineral worked** : DOLOMITE Associated
LIMESTONE Main

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5. Name and Address of the

Lessee : KARAN SINGH CHOUHAN
STATION ROAD, KATNI
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : KARAN SINGH CHAUHAN
MINE OWNER STATION ROAD,
KATNI MADHYA PRADESH
Phone: NA
FAX : NA

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	25-JUN-12
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	15-OCT-14
	:	MP review under 17(1) MCR 2016	23-JUL-19

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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 exploration was proposed during the year 2021-22	NA	-
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed for G1/G2 level	Entire mineralised area of the lease had been explored under G2 level.	Scrutiny comments raised for the conformation of mineralisation at depth by putting adequate number of boreholes in course of time.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Entire mineralised area had already explored under G2 level.	Exploratory work is required to proven mineralisation in depth.
1e	Balance reserve as on 01/04/20	As on 01/04/2023 121-58405T	As on 01/04/2023 121-101407T Resources in tonne Pre- Feasibility(221): 119878 MT Measured Resources(331)- 272451 MT Reserves/Resources position as per annual return for the year 2022-23	Over a period of last five year only reported production is 934.52T
1f	General remarks of inspecting officers on geology, exploration etc			Deposition of mineral occurred with dipping at angle of 70degree. Lease area is limited of 2.19hect. Existing pit had already covered over an atrea of about 06hect with 10-12m depth. Considering the above facts there is a need to explore mineralisation in depth only.

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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work in central part of lease area with single bench from 388 earmarked in Plate-6 for the year 2022-23	Reportedly only 268 tonnes of limestone production carried out during the year	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in Top soil - Nil, Overburden Benches - Nil, Mineral Limestone - 1 Benches of 3 m height proposed	Very less production of 268 tonne carried out by maintaing proposed bench height.	-
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.04	Less development.
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	-
2e	Quantity of overburden generation in m3	Total 452CuM interburden waste generation proposed	5.36cum	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There was single working pit & its dimensions is reported in RMP for period 2024-25 to 2028-29 which is under process of approval.-Pit No-1 (6100 Sq.M) x 9 to 13m depth.Part of the pit admeasuring 30mX30m falls outside of the lease area. Violation for the same had been pointed ou vide V/letter dated 09/11/2023.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Excavation were proposed in Pit-1 from 390mRL to 388mRL as marked in Plate-6	Reportedly excavation was carried out from proposed locations	Mining operation in the mine was found closed on the date of inspection. At the same time pit was found waterlogged.
3b	Quantity of ROM mineral production proposed	21485T	268T	Little production in comprision to envisaged one. For the deviation violation of rule 11(10 had been pointed out vide letter dated 09/11/2023.
3c	Recovery of sailable/usable mineral from ROM production	Proposed as 95% from ROM ore.	Achived as per given proposals	
3d	Quantity of mineral reject generation	Not envisaged.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	NA	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	Not proposed	NA, as there is no sub grade mineral generation from the mine.	
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	Not carried out.	
3j	Provision of drilling and blasting in mineral benches	Small dia 32mm drilling & blasting was proposed by Jack hammer	Reportedly drilling & blasting using jack hammer are in a practice..	

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3k	Provision of mining machineries in mineral benches	Opencost manual mining	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 3m proposed in mineral and there was no overburden for the extraction of mineral so no Overburden bench was proposed.	As per proposal.	
3m	Total area covered under excavation/pits	0.72 hect	As nominal production of only 268 tonne produced during the year against 21485tone. Details of actual area covered during the yera under review are not available.However existing pit is spread over an area of 0.61hect. within lease area and about 0.1hect out side of the lease area. pit area	
3n	Ore to OB ratio for the pit/mine during the year.	1;0.05	1;0.04	
3o	Total area put in use under different heads at the end of year	As per the previous approved ROMP Pits-1.37Ha Road - 0.12 Ha Green Belt - 0.42Ha	Total lease area under mining and allied activities are very less than the proposed one as in a period of about four years only production of 900tone achived against targettedone of about 84209tone.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19-: 14,950 MT 2019-20-: 5,877 MT 2020-21-9,698 MT 2021-22-21345 MT 2022-23- 21485 MT	2018-19-: 14,823 MT 2019-20-: 170MT 2020-21-110 MT 2021-22-00 MT 2022-23- 268 MT	Very less production during the year 2022-23

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3q	General remarks of inspecting officers on method of mining etc.	Open cast manual mine working as proposed in approved Review of Mining plan is applicable as on date also. However, mechanisation may be the best option for higher & economic production considering nature of deposit.
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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	NA	-
4b	Location of topsoil, OB and mineral reject dumps	No proposal for top soil OB and reject dumping	NA as there is no top soil, OB and reject generation envisaged in approved RMP.	-
4c	Number of dumps within lease area and outside of lease area	Not proposed.	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	NA	
4e	Number of active and alive dumps.	Not proposed.	Nil	
4f	Number of dead dumps.	Not poposed.	nil.	
4g	Number of dumps established.	Not proposed.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Not applicable as there is no dumps within lease area as well as in surrounding of the lease.	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed.	Nil	
4j	Number of settling ponds	Not Proposed	Nil	

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4k	Specific comments of inspecting officer on waste dump management	There is no issue of disposal of overburden as a very little amount of intercalated waste material get generated which is utilised in road preparation and their maintainence.
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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	NA	
5b	Area under backfilling of mined out area	Not proposed	Not applicable. however in year 2019-20 reportedly backfilling done on degraded statutory barrier zone of northern lease boundary line.	Reportedly in year 2019-20 backfilling done on degraded statutory barrier zone of northern lease boundary line.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	Nil	
5d	Total area fully reclaimed and rehabilitated	Not proposed	NA	

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5e General remarks of inspecting officers on backfilling and reclamation etc.

Backfilling of degraded northern statutory barrier zone was proposed against year 2019-20 and upto certain extent same work was noticed during inspection. Reclamation work neither proposed nor seen during inspection. There is least generation of mine waste and also mine is not reached to the level of reclamation and rehabilitation as mineral persist in depth at present.

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).	As per provision report is supposed to be submitted by 30th june of the comming year.	Submitted	-
6b	Area available for rehabilitation (ha) .	Not proposed	Some previous worked out area within 7.5m barrier zone towards both end i.e northern & southern end are available for reclamation and rehabilitation.	-
6c	afforestation done (ha).	Not Proposed	Number of saplings planted al along 7.5m statutory barrier zone particularly on eastern and western statutory barrier zone.	
6d	No. of saplings planted during the year	Not proposed.	About 60 plans were seen.	
6e	Cumulative no .of plants	Not roposed	About 100	

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6f	Any other method of rehabilitation	Not proposed.	NA	
6g	Cost incurred on watch and care during the year	Not proposed.	Record in this regard found not maintained.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	60mX7.5mX10-12m	7.5m southern statutory barrier zone.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil,	Certain part of the norther degraded portion of the 7.5m statutory barrier zone had backfilled that too not upto the surface level.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil	Entire pit was found waterlogged.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	NA	Plantation on statutory entact barrier zone (particularly Eastern & Western) were found during site inspection.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA	-

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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)	Periodical Air, Water, Noise monitoring Proposed	Not done due to very less working days	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			During the year under review nominal production (only 268tonne) had been achieved. Environment Clearance had received on 23/03/2022. As upto so far extraction of mineral from the mine had not commenced on full scale so progressive mine closure activities are also not matured for execution. Degraded portion of the southern statutory barrier zone was supposed to be backfilled and rehabilitated which is not commenced so far. Violation has been pointed out accordingly vide letter dated 09/11/2023.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	21485 tonne ROM production.No grade wise sorting/sizing was proposed	177 tonne cement grade	Very less production as well as dispatch.

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	NA	
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	
7d	Any beneficiation process at mines .	Not proposed	NA	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Entire recovered BF grade & cement grade limestone proposed for selling to the nearby steel & cement industries.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NA	
8b	Concurrent use or storage of topsoil	Not Proposed	NA	As per approved proposal there was no topsoil to be removed during the year under review.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	NA	As per approved proposal there was no overburdenreject stone and fine are to be removed. Against the proposal of 540cum mine waste in actual 5.36cum mine waste(intercalated waste) generated during the year and the same was utilised for repair of approach road to the mine.

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NA	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Proposed	NA	-
8g	Survival rate	Not Proposed	Upto 50%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 50 sapling/year in further approval of documents.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- Sep- 2023 A.R. submitted upto- 2022-23	Both, Monthly as well as Annual returns are submitted as per time scedule.	-

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist not appointed.	Environmental clearance had gain in year 2022. So far mining operation had not carried out on full scale. Only in 2022-23 only 268tone mineral from the mine had produced.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pits-1.142Ha Road - 0.12 Ha Infrastructure - 0.12 Ha	Reported area under pit appears on higher side. Pit area within lease area likely to be 0.6hect
9d	Scrutiny of Annual return on afforestation	Given	Reported plantation during the year-110 saplings	About 60 planted saplings were seen during site inspection of the lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Reject generation quantity-Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock -Nil Graded ore stock- Cement grade 558.48 tonne	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale value - Rs. 470/53 per tonne Ex Mine Price- Rs. 1033/-per tonne Cost of production Rs. 1033/20 per tonne.	Anomaly observed on Ex mine price, sale value and in cost of production had already pointed out through violation of 45(7) of MCD Rules,2017 vide letter dated 09/11/2023.
9h	Scrutiny of Annual return on fixed assets	Given	Fixed Assets value - Rs. 0	As mine is not on operation on full scale defficiency notpointed out.
9k	Scrutiny of Annual return on mining machineries	No given	Not required as approved proposals for B category manual mining operation.	-

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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
Rule 11(1)	09-NOV-23				
Rule 27(2)	09-NOV-23				
Rule 34	09-NOV-23				
Rule 45(7)	09-NOV-23				

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines