

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-38MPR35303

Mine code : 38MPR35303

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Sanjeev Singh Parihar, Mining Engineer of the Mi
Official with
Designation
- (iv) Date of Inspection : 20-FEB-24
- (v) Prev.inspection date : 13-MAR-23

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GORRIYA (7.331 HA)**
- (b) **Registration NO.** : **IBM/10459/2012**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : Goraiya
Taluka : Kotar
Post office :
Pin Code :
FAX No. : NA
E-mail : -alliancegravels@ gmail.co
Phone : 8770057026
- (f) Police Station :
- (g) First opening date : 06-APR-21
- (h) Weekly day of rest : SUN
2. Address for : SHRI JAGDISH SINGH
correspondence
3. (a) Lease Number : MPR2366
- (b) Lease area : 7.33
- (c) Period of lease : 50
- (d) Date of Expiry : 02-JUN-56
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : JAGDISH SINGH
SATNA MADHYA PRADESH
Phone: 8770057026
FAX:NA

Owner : JAGDISH SINGH
SATNA MADHYA PRADESH
Phone: 8770057026
FAX: NA

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Plan for grant of ML	20-FEB-1996
		MP modif under 17(3) MCR 2016	21-SEP-20
		MP review under 17(1) MCR 2016	12-NOV-21

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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 proposal	Not applicable	-
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Exploratory work not carried out.	Entire lease area of 7.331 already explored under G1 level of UNF Classification.
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	Not Applicable	-
1e	Balance reserve as on 01/04/20	111-1566461T 211-1371090T	111-1687558T 211-1371090T	-
1f	General remarks of inspecting officers on geology, exploration etc.			Entire lease area was already explored under G1 level at the time of approval of mining plan. However, there were proposal for drilling of three boreholes of total 90m which was completed after pointing out violation of rule11(1) based on previous inspection dated 13/03/2023.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2723940 N to 2724020 N 500925 E to 501020 E	2723940 N to 2724020 N 500925 E to 501020 E	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Proposed Mineral - 02 bench OB - 01 bench	Yes, Proposed Mineral - 02 bench OB - 01 bench	-

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2c	Stripping ratio or ore to OB ratio	1:0.1856	1:0.12	Deviation pointed out through violation of rule 1191) vide letter dated 26/02/2024
2d	Quantity of topsoil generation in m3	Nil	Nil	-
2e	Quantity of overburden generation in m3	38516cum	4614cum	Less development, deviation pointed out through violation of rule 11(1) vide letter dated 26/02/2024.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			the mine development was lagging and not as per the proposals of approved document. Hence violation under rule 11(1) was pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	199115T	38195T	less production, deviation pointed out through violation of rule 1191) vide letter dated 26/02/2024.
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	-
3d	Quantity of mineral reject generation	Not proposed	Not applicable	Actual mineral reject generation is nil as per envisagement made in approved mining plan. In fact mine waste generation in the form of clay pockets, shale etc. take place during mining operation in the mine.

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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.	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised method adopted.	-
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	Drilling & blasting Proposed	Drilling & blasting adopted in extraction of mineral from the mine.	-
3k	Provision of mining machineries in mineral benches	Excavator with dumper combination.	Excavator - 1.02 cum - 01 Dumper - 27.00 tonne - 02	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Suitable as per proposal	-
3m	Total area covered under excavation/pits	3.540 Ha	3.540 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1;0.18	1;0.12	-
3o	Total area put in use under different heads at the end of year	3.54hect.	Covered under current pit - 3.540 ha	-

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3p	Production of ROM mineral during the last five year period as applicable	2018-19 -Nil 2019-20 -Nil 2020-21 -Nil 2021-22 - 211000T 2022-23 - 199115T	-Nil -Nil -Nil - - -	2018-19 Nil 2019-20 Nil 2020-21 Nil 2021-22 2998.632T 2022-23 38195T	Nil Nil Nil 2998.632T 38195T	Environmental clearance acquired on 06/04/2021. Therefore production achieved after getting EC.
3q	General remarks of inspecting officers on method of mining etc.					Opencast mechanized method of mining is existing in the lease area. Mine was not in operational at the date of inspection, Production as well as development both are less in the light of proposal given in the approved MPLN.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generation of mine waste envisaged against the year. Dumping of the same envisaged.	mine waste generated during mining operation either utilised in making of bund around the ML area and certain part of it is dumped on year marked place.	-
4b	Location of topsoil, OB and mineral reject dumps	Top soil - Not proposed, OB Not proposed, mine waste 3697cum near BP.No.7 & 8, Reject stone 83185T near BP No.5/2 to 4/2	Record of top soil not maintained. OB generation Nil, Mine waste generated during mining operation utilized in making of bundh around the lease area. about 9,000Treject stone generated during mining operation was found stacked on year marked place within lease area.	-
4c	Number of dumps within lease area and outside of lease area	One dump for mine waste and one dump for reject stone.	As per approved proposal.	-

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporarily proposed within UPL but outside of five year limit.	As per approved proposal.	-
4e	Number of active and alive dumps.	one Mine waste dump and one reject stone dump.	As per approved proposal.	-
4f	Number of dead dumps.	Not proposed.	NA	-
4g	Number of dumps established.	Not proposed.	NA	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	NA	-
4i	Length of Retaining wall or garland drain all along dumps	230m, retaining wall, 688m garland drain	Bund of about 1-1.2m height had already made along the lease boundary. Existing dump of mine waste and reject stone both are at present not reached to the height of the bund. so both the dumps are protected from the bund. garland drain along lease boundary line was seen in certain part of the lease area.	-
4j	Number of settling ponds	Not proposed	NA	-
4k	Specific comments of inspecting officer on waste dump management			Production and mine development both are lacking from the approved proposal. However, waste dump management is in the line of approved proposals.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed.	Backfilling of degraded statutory barrier zone along BP.No7 & 8 envisaged against 2021-22 were seen during inspection	-
5b	Area under backfilling of mined out area	Not proposed.	about 750sqm area.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Not applicable	There was no proposal for top soil generation during the year.
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Not applicable.	Only backfilling of degraded statutory barrier zone carried out.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Level of mineral extraction & development work both were very low in comparison to the approved proposals. However, envisaged backfilling of degraded statutory barrier zone started with mine waste generated from mining operation.

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).		Annual PMCP report,2022-23 found submitted with AR,2022-23	-
6b	Area available for rehabilitation (ha) .	Not proposed.	NA	-
6c	afforestation done (ha) .	0.40hect	0.25hect	-
6d	No. of saplings planted during the year	400saplings	600saplings	-

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6e	Cumulative no .of plants	800	600	-
6f	Any other method of rehabilitation	Not proposed	NA	-
6g	Cost incurred on watch and care during the year	Rs.1,50,000/-	Record not maintained.	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	NA	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on on backfilled area	Not proposed	NA	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	-
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	Not Proposed	NA	-
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)	Proposed	As per proposal	Record of environmental monitoring were seen during inspection of the mine.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			On full scale mining operation not commenced so far. However, extent of PMCP compliance may be considered satisfactory in the light of level of mining operation commenced in the lease area.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	199115T(ROM ore production) 154564T Salable Ore	38195T ROM ore 15149T cement grade	Entire graded limestone is cement grade.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed	Mechanical method adopted	-
7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable as entire graded limestone is cement grade only.	-
7d	Any beneficiation process at mines	Not proposed	Not applicable	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issue related with mineral conservation and beneficiation issues.

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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Not applicable	Proposal of top soil removal against the year under review was not envisaged in the approved MPLN.
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed separate dumps for mine waste and reject stone.	As per approved proposal.	Level of production is very low compression to the approved proposals.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Backfilling of degraded portion of statutory barrier zone proposed in year 2021-22.	-
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)	400 Saplings proposed to be planted	Proper record not maintained however a good no. of saplings found planted within lease area.	-
8g	Survival rate	80%	60%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	As per proposal.	-

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area is not so bad. A good no. of saplings was found planted by the lessee. There is a Guava Garden outside of the lease area having about 100 no of plants spread along norther lease boundary line. On eastern and southern direction agricultural crops were s. Thus, general look of the area is good. However, advise were given for plantation and proper care of them.
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly return up to january,2024 and AR for the year,2022-23 found submitted.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Shri Sanjeev Singh Parihar, Mining Engineer & Shri Anil Kumar Kushwaha, Geologist	-

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	(i) Already exploited & abandoned by opencast (O/C) mining 0 (ii) Covered under current (O/C) Workings 3.54 (iii) Reclaimed/Rehabilitated 0 (iv) Used for waste disposal 0.063 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.06 (vi) Used for any other purpose (specify) MINERAL STORAGE 0	-
9d	Scrutiny of Annual return on afforestation	given	600 no saplings	Overall plantatic carried out by th lessee may be 600.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	3738T mineral having less than 30% CaO	Mineral having les than 30% CaO conten may not b recognized a Mineral reject i case of limestone Anomaly has bee pointed out throug violation of rul 45(7) vide letter date 26/02/2024.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given ROM stock 41943T Graded stock 7282.325T cement grade	Along with opening stock of ROM ore (3748tone) entire ROM produced from the mine during the year (38195tone) is indicated against closing stock of ROM (41943tone). At the same time under grade wise Production, Dispatches, Stocks and Ex-mine prices (item no. 3) it is indicated that 15149 tone cement grade limestone has been produced during the year from the mine. Thus, from where this 15149-tone cement grade limestone mineral came from is not clear.	Anomaly as stated above had been pointed out through violation of rule 45(7) vide letter dated 26/02/2024.

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale Value Rs. 318/42 Ex Mine Price Rs. 317/- Production cost Rs. 261/60	In calculation of cost of production taxes had not taken into account. This deficiency has been pointed out through violation of rule 45(7) vide letter dated 26/02/2024. On lower side.
9h	Scrutiny of Annual return on fixed assets	Given	Rs. 700000/-	
9k	Scrutiny of Annual return on mining machineries	Given	Other Heavy Mech. 1 DUMPER 2 no. WATER TANKER 9000ltr 1 no (5000ltr)	Specific name of other heavy mech should had been given here.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show Couese position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
11 (1)	26/02/2024				
31 (4)	26/02/2024				
45 (7)	26/02/2024				

Date :05/03/2024

(RAGHUBIR SHARAN GARG)
Indian Bureau of Mines