

1/9928/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-252

Mine code : 38MPR47015

- (i) Name of the Inspecting : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri K. N. Ojha, Manager Mines
Official with
Designation
- (iv) Date of Inspection : 25-APR-23
- (v) Prev.inspection date : 27-FEB-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (11.833 HA)**
- (b) **Registration NO.** :
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MADHYA PRADESH
- District : KATNI
- Village : NANHWARA
- Taluka : VIJAYRAGHAVGARH
- Post office : NANHWARA
- Pin Code : 483775
- FAX No. : N. A.
- E-mail : N. A.
- Phone : N. A.
- (f) **Police Station** : KYMORE
- (g) **First opening date** : 23-JUN-00
- (h) **Weekly day of rest** : SAT
2. **Address for** : M/S ASSOCIATED LIME COMPANY
correspondance P.B.NO.164,KATNI (M.P.) 483501
3. (a) **Lease Number** : MPR1697
- (b) **Lease area** : 7.03
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 04-DEC-25
4. **Mineral worked** : LIMESTONE Main

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5. Name and Address of the

Lessee : ASSOCIATED LIME COMPANY
 P.B.NO.164 KATNI MADHYA
 PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : ASSOCIATED LIME COMPANY
 P.B.NO.164 KATNI MADHYA
 PRADESH
 Phone: N. A.
 FAX : N. A.

Mining Engineer

Name : KRISNA NAND OJHA,Part Time
 Qualification : B.E.(MINING)
 Appointment/ : 22-MAY-02
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	15-FEB-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-JUN-07
		Modif.approved Mining Scheme	05-FEB-09
		Mining Scheme rule 12 MCDR1988	21-JUL-11
		Mining Scheme rule 12 MCDR1988	20-APR-15
		MP modif under 17(3) MCR 2016	09-DEC-19
		MP review under 17(1) MCR 2016	01-JUL-20

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	03 Bore hole	02 bore hole	Violation pointed out under rule 11(1)
1b	Exploration over lease area for geological axis 1 or 2	Lease area explored up to G1 level	Lease area explored up to G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Entire area is in G1	
1e	Balance reserve as on 01/04/20	As on 01/04/2023 - 2.400619 Million tons	As on 01/04/2023 - 2.264549 Million tons	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area explored upto G1 level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In Block A and C between grid E-W 70-500 N-S 80-800	In Block A and C between grid E-W 70-450 N-S 120-330	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed	Separate benches in overburden and mineral maintained	
2c	Stripping ratio or ore to OB ratio	1:0.13	1:0.15	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	26474 Cubic meter	29715 cubic meter	

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	the top soil / ob found in the lease area is about 3-4 m in thickness, after that limestone is in continuation with interclated shale
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Block A	Block A	
3b	Quantity of ROM mineral production proposed	198560 tones	198100 Tones	
3c	Recovery of sailable/usable mineral from ROM production	57 to 75%	74%	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Nil	
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	Slurry explosive JH and Wagon Drills	Slurry explosive JH and Wagon Drills	

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3k	Provision of mining machineries in mineral benches	Deploiment of HEMM with Dumpers	Deploiment of HEMM with Dumpers
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	found to be suitable
3m	Total area covered under excavation/pits	7.754 ha	7.754 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.13	1:0.15
3o	Total area put in use under different heads at the end of year		10.5884 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 261750 2018-19 282469 2019-20 337781 2020-21 198418 2021-22 198655 2022-23 198560	2017-18 198880 2018-19 199940 2019-20 188670 2020-21 43160 2021-22 89010 2022-23 198100
3q	General remarks of inspecting officers on method of mining etc.		opencast method of mining is being carried out by the deployment of heavy earth moving machineries for excavation, drilling blasting, loading & transportation on single shift basis in the Limestone zone

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB maintained	

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4b	Location of topsoil, OB and mineral reject dumps	dumping of OB proposed in northern part of Block C	Top Soil - Barrier Zone OB - Backfilled	
4c	Number of dumps within lease area and outside of lease area	03 nos	03 nos	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside upl	outside upl	
4e	Number of active and alive dumps.	2 Nos	2 Nos	
4f	Number of dead dumps.	01 nos	01 nos	
4g	Number of dumps established.	01 nos	01 nos	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain along dumps proposed	240 m of Garland drain maintained	
4i	Length of Retaining wall or garland drain all along dumps	proposed	240 m of Garland drain maintained	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			OB / waste are being stocked seperately as per proposal.

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.	full extraction of mineral from mined out area proposed before starting backfilling	full extraction of mineral from mined out area adopted before starting backfilling	
5b	Area under backfilling of mined out area	0.2974 ha	0.1000	Violation pointed out

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed to be top soil not generated used for plantation in barrier zone		
5d	Total area fully reclaimed and rehabilitated	0.2974 ha	0.10 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is only being in the fully mineral extracted area

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).	Proposed	PMCP report for 2022-23 not submitted so far.as per statute it is to be submitted before 01/07/2023. PMCP report of year 2021-22 have received in office.	Violation of rule 26(2) could not be issued as last date of submission of PMCP Report is 30/06/2023.
6b	Area available for rehabilitation (ha) .	0.2974 ha	0.10 ha	
6c	afforestation done (ha).	0.2974 ha	0.10 ha	
6d	No. of saplings planted during the year	WL - 134	WL - 150 OL - 120	
6e	Cumulative no .of plants		WL - 1330 OL- 10160	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year		Rs - 114000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	26000 Square meter	25200 Square meter	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Not applicable	
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	Not proposed	Not applicable	Within lease area there is no waste land
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Environment monitoring carried out	

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	fully extracted area is being backfiled and plantation is being done over the backfilled area
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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 sale proposed	ROM sale carried out	No beneficiation proposed
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	no beneficiation process carried out	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being sorted size wise with the help of screeners

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	separate removal and stacking of top soil proposed no top soil generated during the year	
8b	Concurrent use or storage of topsoil	top soil is being proposed to be used in plantation	no top soil generated during the year	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumps of OB/waste/rejects proposed	separate dumps prepared for OB waste and rejects	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB waste rejects are being used for backfilling of fully extracted area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	WL - 10 trees	WL - 150 trees Ol- 120 trees	Comulative WL - 1330 OL - 10160
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	proposed	water is being sprinkled on roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty of mine and surrounding area need to improve

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly Returns found submitted upto March ,2023 whereas Annual Returns for the year 2021-22.	AR of 2022-23 not submitted by the lessee. By statute Last date of submission of AR is 30/06/2023 so violation of rule 45(5)(c) not pointed out.

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri K N Ojha Geologist - Shri Nikhil Gadikar	Mining Engineer & Geologist have been appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	O/c Working - 2.0 ha Reclaimed & rehabilitated - 1.1492 ha Waste Disposal - 0.0220 ha Green belt - 1.46 ha	
9d	Scrutiny of Annual return on afforestation		WL - 150 trees Ol- 120 trees	Comulative WL - 1330 OL - 10160
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock 481.280 tonne (As per return March 2023)	Stock of such ROM were seen at the site.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR of 2022-23 not submitted hence details of information furnished w.r.t. AR 2021-22 Ex. mine Price Rs.310/- per tonne Cost of production Rs. 241.46/-per tonne	ok	
9h	Scrutiny of Annual return on fixed assets	Indicated as Rs. zero	Details given in another lease annual return	
9k	Scrutiny of Annual return on mining machineries	AR of 2022-23 not submitted hence details of information furnished w.r.t. AR 2021-22	Back Hoe - 0.900 cum -02 Dumper - 25.00 tons -06 Air Compressor - 10 CUM/MN -01 Pumps - 1080 L/MN -02	

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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
MCDR17	Rule 11(1)	15-MAY-23			
MCDR17	Rule 31(1)	15-MAY-23			

Date :**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines