

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LST-252

Mine code : 38MPR47015

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 27-FEB-21
- (v) Prev.inspection date : 11-OCT-17

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 : 20
(d) Date of Expiry : 04-DEC-15
4. Mineral worked : LIMESTONE Main

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	
1b	Exploration over lease area for geological axis 1 or 2	not proposed	nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	entire area is in G1	
1e	Balance reserve as on 01/04/20	121- 2.67 MT	121- 2.532 MT	
1f	General remarks of inspecting officers on geology, exploration etc			

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-200-E-400 and S-500-S-700	In Block A and C between grid E-220-E-400 and S-500-S-700	
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	1:0.17	
2d	Quantity of topsoil generation in m3	nil	nil	

2e	Quantity of overburden generation in m3	45038 M3	33691 M3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Nos. Block A and C	2 Nos. Block A and C	
3b	Quantity of ROM mineral production proposed	337781 MT	188670 MT	violation pointed out
3c	Recovery of sailable/usable mineral from ROM production	entire ROM dispatch proposed	entire ROM dispatch carried out	
3d	Quantity of mineral reject generation	not proposed	nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	not proposed	not done	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	no analysis or study proposed	no analysis or study carried out	beneficiation study
3j	Provision of drilling and blasting in mineral benches	proposed		as per proposal
3k	Provision of mining machineries in mineral benches	proposed		as per proposal
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	5.5 ha		5.5 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.13		1:0.17
3o	Total area put in use under different heads at the end of year	7.41 Ha		7.41 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 2016-17 2017-18 2018-19 2019-20	205564 209813 261750 282469 337781	2015-16 2016-17 2017-18 2018-19 2019-20
				195930 199940 198880 199940 188670

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
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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)	Separate dumping of OB proposed	Separate dumping of OB maintained	
4b	Location of topsoil, OB and mineral reject dumps	dumping of OB proposed in northern part of Block C	dumping of OB in northern part of Block C	
4c	Number of dumps within lease area and outside of lease area	02 nos	02 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.	nil	nil	
4g	Number of dumps established.	nil	nil	
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		

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 starting backfilling	
5b	Area under backfilling of mined out area	nil	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed to be used for plantation in barrier zone	top soil not generated	
5d	Total area fully reclaimed and rehabilitated	0.605 ha	0.605 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	proposed	not submitted	violation pointed out
6b	Area available for rehabilitation (ha) .	0.1208 ha	0.1450 ha	
6c	afforestation done (ha).	0.1208 ha	0.1450 ha	
6d	No. of saplings planted during the year	130 nos	150 nos approx	
6e	Cumulative no .of plants	not proposed	800 nos approx.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	not proposed	nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Environment monitoring carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

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	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	not done	
7c	Different grade of mineral sorted out at mines.	not proposed	nil	
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			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	not done as no topsoil generated	
8b	Concurrent use or storage of topsoil	not proposed	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden / waste rock proposed	Separate dumps for overburden/ waste rock maintained	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	as per proposal
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)	proposed	Within Lease-150 nos Outside lease-20 nos
8g	Survival rate	85 %	75 %
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling on roads carried out
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed	A.R. Submitted upto 2019-20. M.R. Submitted upto Mar.2021	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	proposed	Manager & Mining Engineer in charge Shri. Krishna nand ojha
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	proposed	Covered under current (O/C) Workings 5.500 Reclaimed/Rehabilitated 0.605 Used for waste disposal 3.420 Occupied by plant, buildings, residential, welfare buildings & roads 0.206 Other Purpose (Green belt) 0.200
9d	Scrutiny of Annual return on afforestation	proposed	Number of trees planted during the year 170 nos Survival rate in percentage 75%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	proposed	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	proposed	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	proposed	Ex-mine price (in Rs.Per Tonne) for SMS grade limestone-250.00
9h	Scrutiny of Annual return on fixed assets	proposed	Value of Fixed Assets (in Rs) 28 lakhs

9k	Scrutiny of proposed Annual return on mining machineries	BACK HOE 0.900 CUM 2nos Non Electrical Opencast DUMPER 25.000 TONNE 6nos Non Electrical Opencast AIR COMPRESSOR 10.000 CUM/MN 1no Non Electrical Opencast PUMPS (ELEC.) 1080.000 L/MN 2nos Electrical Opencast
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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)	06-APR-21			
MCDR17	Rule 26(2)	06-APR-21			
MCDR17	Rule 31(4)	06-APR-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines