

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/KTN/LST-52

**Mine code :** 38MPR18132

- (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 : 17-JAN-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NANHWARA [ 7.035 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 :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : Shri Ashok Kumar Katare, Partner / Nominated Own  
correspondance M/S ASSOCIATED LIME COMPANY  
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	27-MAY-03
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	18-AUG-06
		Mining Scheme rule 12 MCDR1988	30-JUN-10
		Mining Scheme rule 12 MCDR1988	14-JAN-15
		MP modif under MCR 1960	03-DEC-15
		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	nil	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 - 0.8755 Ha	G2 - 0.8755 Ha	
1e	Balance reserve as on 01/04/20	111 -477060 t 122 -145073 t	111 -477060 t 122 -145073 t	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between grid coordinates S 120-S 270 & E 70-E230	Between grid coordinates S 120-S 270 & E 70-E230	
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	1:0.24	1:0.31	
2d	Quantity of topsoil generation in m3	not proposed	nil	
2e	Quantity of overburden generation in m3	46301 M3	57105 M3	

2f General remarks  
of inspecting  
officers on  
development of  
pit w.r.t. type  
of deposit etc

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	192160	181700	
3c	Recovery of sailable/usable mineral from ROM production	entire ROM is proposed to be sold	entire ROM is sold	
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.	not proposed	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.	not proposed	not done	

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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	yes	found to be suitable
3m	Total area covered under excavation/pits	5.5 Ha	5.49 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.24	1:0.31
3o	Total area put in use under different heads at the end of year	6.454 Ha	6.364 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 60676 2016-17 200847 2017-18 220377 2018-19 197570 2019-20 192160	2015-16 57500 2016-17 43680 2017-18 68380 2018-19 193090 2019-20 181700
3q	General remarks of inspecting officers on method of mining etc.		Opencast method of mining is being carried out by 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:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping proposed of topsoil, OB and mineral rejects (Rule 32,33)		Separate dumping of OB & maintained
4b	Location of topsoil, OB and mineral reject dumps	OB dump proposed in Southwestern part of the lease	OB dump located in Southwestern part of the lease
4c	Number of dumps within lease area and outside of lease area	04	04
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside upl	outside upl
4e	Number of active and alive dumps.	01	01
4f	Number of dead dumps.	03	03
4g	Number of dumps established.	nil	03
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	120 m of garland drain found
4i	Length of Retaining wall or garland drain all along dumps	proposed	120 m of garland drain found
4j	Number of settling ponds	01	01
4k	Specific comments of inspecting officer on waste dump management		

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after reacching 322 RL.	Backfilling started in SW part of the lease
5b	Area under backfilling of mined out area	not proposed	1.48 Ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to spread over backfilling	Top soil spreaded over 0.068 Ha and saplings planted
5d	Total area fully reclaimed and rehabilitated	not proposed	1.48 Ha as per Annual return 2019-20.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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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).	yes	not submitted	violation pointed out
6b	Area available for rehabilitation (ha) .	1.48 Ha	1.48 Ha	
6c	afforestation done (ha) .	0.095	0.095 Ha	
6d	No. of saplings planted during the year	nil	200 nos	
6e	Cumulative no .of plants	not proposed	1500 nos	

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6f	Any other method of rehabilitation	nil	nil
6g	Cost incurred on watch and care during the year	proposed	Rs.156050/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	proposed	110x22x25m
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	proposed	57105 M3
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	20 Nos. Trees	100 Nos. Trees
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	not proposed	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	Yearly monitoring of air, water & noise during 2019 by Anacon Lab Nagpur
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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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 sold	
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.	NA	NA	
7d	Any beneficiation process at mines .	Not proposed	not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	as per proposal	
8b	Concurrent use or storage of topsoil	To spread over backfilled area for plantation	no topsoil generated.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden waste proposed	Separate dump for overburden waste maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling in South & South West area of the lease carried out	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling in South & South West area of the lease carried out	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Within Lease- 20 nos Outside lease- 20 nos	Within Lease-100 nos Outside lease-100 nos	
8g	Survival rate	not proposed	84%	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area is well preserved & maintained.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	given	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	given	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.	given	Covered under current (O/C) Workings 5.500 Reclaimed/Rehabilitated 1.480 Used for waste disposal 0.650 Other Purpose (ROADS, GREEN BELT) 0.214	
9d	Scrutiny of Annual return on afforestation	given	Number of trees planted during the year 200nos Survival rate in percentage 84	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	given	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	given	Ex-mine price (in Rs. Per Tonne) for SMS grade limestone-250.00	
9h	Scrutiny of Annual return on fixed assets	given	nil	

9k	Scrutiny of given Annual return on mining machineries	BACK HOE 0.900 CUM 2 Non Electrical Opencast DUMPER 15.000 TONNE 6 Non Electrical Opencast AIR COMPRESSOR 385.000 CUM/MN 1 Non Electrical Opencast PUMPS (ELEC.) 1080.000 L/MN 2 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 26(2)	06-APR-21			
MCDR17	Rule 31(4)	06-APR-21			

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines