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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-59

Mine code : 38MPR18081

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Akhil Chauhan (Mining Engineer), Venkateshwarulu(Geol
Official with
Designation
- (iv) Date of Inspection : 16-SEP-22
- (v) Prev.inspection date : 04-SEP-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMUWANI KALAN (31.43.HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : JAMUWANI KALAN
Taluka : VIJAYRAGHAVGARH
Post office : JAMUWANI KALAN
Pin Code :
E-mail : MANOJ.SINGH9@adani.com
Phone : 022-67973967
FAX: :
- (f) Police Station :
- (g) First grant date : 02-SEP-77
- (h) Weekly day of rest : WED
2. Address for : M/S ACC Limited
correspondance P.O. KYMORE, VIA. JUKEHI
DIST KATNI (M.P.) 483501
3. (a) Lease Number : MPR0273
(b) Lease area : 31.43
(c) Period of lease : 02-SEP-77 to 31.MAR.30
(d) Date of Expiry : 31.03.30
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

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5. Name and Address of the

Lessee : SRIDHAR BALAKRISHNAN
CEMENT HOUSE 121, M K
ROAD MUMBAI
MAHARASHTRA.
FAX :N. A.

Owner : SRIDHAR BALAKRISHNAN
CEMENT HOUSE 121, M K
ROAD MUMBAI
MAHARASHTRA.
PHONE: 022-67973967.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	23-AUG-96
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04-OCT-04
		Mining Scheme rule 12 MCDR1988	25-JUN-07
		Mining Scheme rule 12 MCDR1988	19-MAR-12
		MP modif under MCR 1960	04-APR-16
		MP review under 17(1) MCR 2016	19-FEB-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	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	05	Nil	Violation pointed out under rule 11(1) of MCDR 2017.
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		31.43 ha to be explored in G1	
1e	Balance reserve as on 01/04/20	proposed	122-8.67 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of Limestone in the lease area is stratigraphically controlled. The lease area belongs to Vindhyan super group in Rohtas Limestone of Semri group. The ML area lies along the foot hill of the Kymore hill range. The Limestone strata dip 40 to 700 northerly. The dip varies at places due to local folds. The deposit is Bedded Stratiform and tabular deposits of irregular habit. The average strike direction is N 600 E-S 600 W

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	2666560 N to 2666340 N ; 472820 E to 472550 E	2666560 N to 266340 N ; and 472780 E to 472550 E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed	Top Soil- Stored Separately.OB and Limestone Benches are excavated accordingly.	
2c	Stripping ratio or ore to OB ratio	1:0.27	1:0.13	
2d	Quantity of topsoil generation in m3	8928	4400	Violation pointed out under rule 11(1) of MCDR 2017.
2e	Quantity of overburden generation in m3	6387	6170	
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	01	01	
3b	Quantity of ROM mineral production proposed	143714	115017	Violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is to be used in Cement plant	Entire ROM used in Cement plant	
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	

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3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	Not done
3j	Provision of drilling and blasting in mineral benches	Deep Hole drilling & Blasting proposed	Deep Hole drilling & Blasting done
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	Number of Benches -3 (ore of Average height of 5m) & 2 (OB Average height of 3m).
3m	Total area covered under excavation/pits	5.8 ha	5.8 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.27	1:0.13
3o	Total area put in use under different heads at the end of year	Under Open cast workings- 5.8Ha, Dump-3.12 ha Office, Road- 0.50 ha	Under OC workings-5.8ha, Dump-0.96 ha Office, Road-0.31 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 153885 2018-19: 159975 2019-20: 159975 2020-21: 159975 2021-22:143714	2017-18 129237.160 2018-19: 129687 2019-20:83415 2020-21: 19671 2021-22: 115017

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3q	General remarks of inspecting officers on method of mining etc.	Opencast fully mechanised method of mining is existing in the lease area. All operations of mining are being carried out by deployment of HEMM including deep hole drilling and blasting.
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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)	proposed	as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Top Soil: No stacking of Top Soil OB Dump: N 266198-2666300N; E472814-472950 E	Top soil was utilized for plantation. OB Dump: N 266198-2666300N; E472814-472950 E	
4c	Number of dumps within lease area and outside of lease area	One, Inside lease area	One, Inside lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N 266198-2666300N; E472814-472950 E	N 266198-2666300N; E472814-472950 E	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	240 X 1 mts garland drain	
4i	Length of Retaining wall or garland drain all along dumps	proposed	240 X 1 mts garland drain	

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4j	Number of settling ponds	Nil	01
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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.	full extraction of mineral from mined out area before starting backfilling proposed	full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	700 m2	500 m2	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	To be used for Plantation	Utilized for Plantation cover	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Full extraction of mineral from mined out area before starting backfilling proposed and being carried out as per proposal.

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	submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha) .	0.4 ha	0.5 ha	

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6d	No. of saplings planted during the year	1000	1000
6e	Cumulative no .of plants	Not proposed	5000 (approx.)
6f	Any other method of rehabilitation	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	700 m2	500 m2
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	AAQ-Three 8-hourly samples over 24 hrs during each season except rainy season of a year/ as per guidelines of CPCB/CECB Noise- Twice per year for couple of years than Once a year Water-6 monthly	Compiled, Ambient Air, Water, Noise, are done in every Quarter and Ground Vibration is done for each blast.

 Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch adopted	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Nil	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	Not proposed	Not done within the mine premises.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The entire ROM mineral is being dispatched to the Captive Cement plant owned by the lessee.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Separate removal and utilization of topsoil adopted	
8b	Concurrent use or storage of topsoil	The top soil is to utilised for topping of the backfilled area	The top soil is utilised simultaneously for topping of the backfilled area and for aforestation and also in 7.5 m mine boundary side.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, N 266198-2666300N; E472814-472950 E	N 266198-2666300N; E472814-472950	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden is proposed for backfilling to restore the land to its original use	As per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands affected by mining operations proposed.	Phased restoration, reclamation and rehabilitation of lands affected by mining operations is being adopted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	1000 plants planted along the lease boundary
8g	Survival rate	NA	85%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water Spraying Done by water Tanker

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All Monthly returns and Annual Returns Submission online proposed	All Monthly returns and Annual Returns Submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager Mr. K K Sahu. Mining Engineer in charge Mr. Akhil Chouhan Geologist in charge Mr. Venkateshwarulu STKK	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings 5.800 Used for waste disposal 0.960 Occupied by plant, buildings, residential, welfare buildings & roads 0.310
9d	Scrutiny of Annual return on afforestation	yes	(i) Number of trees planted during the year 1000 nos (ii) Survival rate in percentage 85.00
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	yes	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in ? Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 1200.000 115016.510 115016.510 1200.000 298.96
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	Ex-mine price (in Rs. Per Tonne)- 298.96

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9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	yes	BACK HOE 1.200 CUM 1 Non Electrical Opencast BACK HOE 0.900 CUM 1 Non Electrical Opencast TIPPER 10.000 CUM 4 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast PUMPS (ELEC.) 200.000 L/MN 1 Electrical Opencast ROCK DRILL (NONELEC.) 115.000 MM 1 Non 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)	03-FEB-23		MCDR17 Rule 11(03-FEB-23	
Rule 46	03-FEB-23	03-MAR-23			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines