

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-179

Mine code : 38MPR18075

- (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 : 03-SEP-20
- (v) Prev.inspection date : 27-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMUWANI KALAN (8.094 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 :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : WED
2. Address for : M/S ACC Limited
correspondance : P.O. KYMORE, VIA. JUKEHI,
DIST KATNI (M.P.) 48350
3. (a) Lease Number : MPR0276
- (b) Lease area : .4
- (c) Period of lease : 5
- (d) Date of Expiry : 20-MAY-97
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ACC Limited
 P.O. KYMORE VIA JUKEHI
 KATNI MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : ACC Limited
 P.O. KYMORE VIA JUKEHI
 KATNI MADHYA PRADESH
 Phone: N. A.
 FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	06-JAN-98
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-OCT-04
		Mining Scheme rule 12 MCDR1988	23-FEB-12
		Mining Scheme rule 12 MCDR1988	12-JUN-14
		MP modif under 17(3) MCR 2016	10-APR-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	NA	
1b	Exploration over lease area for geological axis 1 or 2	mineralized area explored upto G2 level	mineralized area explored upto G2 level.G2-4.10 hectare and G1-3.91 hectare	
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	G2-4.10	G2-4.10	
1e	Balance reserve as on 01/04/20	0.792600 MT	0.792600 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone of the ML belongs to the rohtas limestone in semri group of Vindhyan super group. dark grey in colour, hard and compact in nature with fine grains.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2666590 to 2666450 & E 473310 to 473110	N 2666590 to 2666520 & E 473310 to 473110	development towards the southern side is lagging and violation pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral proposed	Top Soil- Stored Separately.OB and Limestone Benches are separated & excavated accordingly	

2c	Stripping ratio or ore to OB ratio	1:0.43	1:0.17	
2d	Quantity of topsoil generation in m3	5076	3210	violation pointed out
2e	Quantity of overburden generation in m3	1773	1108.67	violation pointed out
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During inspection it was observed that the development towards the southern side is lagging behind the approved proposals for the year 2019- 20. Violation pointed out under rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	39893 T	24670 T	violation pointed out
3c	Recovery of sailable/usable mineral from ROM production	entire ROM is utilised in captive plant owned by the lessee.	entire ROM is utilised in captive plant owned by the lessee.	
3d	Quantity of mineral reject generation	NIL	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	No segregation proposed	No segregation adopted
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	no analysis / beneficiation study is carried out
3j	Provision of drilling and blasting in mineral benches	YES	drilling & blasting in mineral benches was carried out.
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 meter height of bench is proposed in mineral i.e. limestone and 1.5 meter height of bench proposed in OB	found suitable and as per proposal
3m	Total area covered under excavation/pits	2.05 Ha	1.2 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.43	1:0.10
3o	Total area put in use under different heads at the end of year	2.14 Ha	2.14 Ha

3p	Production of ROM mineral during the last five year period as applicable	2015-16 48870 T 2016-17 48600 T 2017-18 38137 T 2018-19 39848 T 2019-20 39960 T	2015-16 19946.89 T 2016-17 11227.99 T 2017-18 5446.62 T 2018-19 19022.52 T 2019-20 24670.56 T
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3q	General remarks of inspecting officers on method of mining etc.	In the year 2019-20 the total Quantity of ROM mineral production proposed is 39893 MT but only 24670 MT achieved.Hence violation pointed out under rule 11(1) of MCDR 2017.
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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	carried out as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	South eastern side of lease boundary	South eastern side of lease boundary	
4c	Number of dumps within lease area and outside of lease area	2 dumps within Lease Area	2 dumps within Lease Area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	
4e	Number of active and alive dumps.	one active dump	one active dump	
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.	150 mtrs of Garland Drain proposed	110 mtrs of Garland Drain present in mines
4i	Length of Retaining wall or garland drain all along dumps	proposed	110 mtrs of Garland Drain found
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 the mineral proposed before backfilling	No area fully extracted therefore no area backfilled yet	
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)	Top Soil generated will be used for plantation	Top Soil generated is being used for plantation	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area fully mature enough for reclamation and backfilling.

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	Submitted	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.40 hect	0.40 hect	
6d	No. of saplings planted during the year	Nil	900 plants planted inside mine lease along the lease boundary	
6e	Cumulative no .of plants	Nil	900	
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Not declared	Nil	
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	Not proposed	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not proposed	NIL	

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.	Not proposed	NIL
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	nil	nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Ambient Air, Water, Noise monitoring is done in every Quarter, and in-house monitoring is done in every month.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed	ROM mineral is being dispatched to cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	ROM is dispatched to cement plant
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			the entire ROM is being dispatched from lease to cement plant owned by the lessee

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	The top soil is utilised during afforestation	
8b	Concurrent use or storage of topsoil	yes	The top soil is utilised for afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	separate dump for OB is present and there is no mineral rejects	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB proposed to be backfilled	no area fully extracted in the lease	
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	900 plants planted inside mine lease along the lease boundary and 387 plants outside lease area	
8g	Survival rate	80 %	80 %	
8h	Water sprinkling on roads to control airborne dust	yes	Water spraying done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area needs improvement

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	AR submitted till 2019-20 MR submitted till March - 2021	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager Mr. N Santosh Kumar Mining Engineer in charge Mr. N Santosh Kumar Geologist in charge Mr. Sagar Ashokrao Fukat
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings 1.200 ha Used for waste disposal 0.830 ha Occupied by plant, buildings, residential, welfare buildings & roads 0.110 ha
9d	Scrutiny of Annual return on afforestation	yes	900 plants planted inside mine lease along the lease boundary and 387 plants outside lease area in 2019-20 Survival rate in percentage is 85.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	ex mine price of cement grade limestone is 274 rupees
9h	Scrutiny of Annual return on fixed assets	yes	Value of Fixed Assets (in Rs) 11560845
9k	Scrutiny of Annual return on mining machineries	yes	BACK HOE 1.200 CUM 1 Non Electrical Opencast TIPPER 10.000 CUM 2 Non Electrical Opencast

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)	16-SEP-20	14-DEC-20				
MCDR17	Rule 33	16-SEP-20	14-DEC-20				
MCDR17	Rule 35(2)	16-SEP-20	14-DEC-20				
MCDR17	Rule 45(7) (a)	16-SEP-20	14-DEC-20				

Date :

(ROBERT SIMON C)

Indian Bureau of Mines