

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-115

Mine code : 38MPR18074

- (i) Name of the Inspecting : **P014**) **JAY KUMAR PANDEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Mukesh Prasad ,Mines Manager & Sh. Sushil Bajpai,
Official with
Designation
- (iv) Date of Inspection : 17-JAN-22
- (v) Prev.inspection date : 18-JUL-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BADARI LIMESTONE (1.121HA)**
- (b) **Registration NO.** : **IBM/256/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : BADARI
Taluka : VIJAYRAGHAVGARH
Post office : KAYMORE
Pin Code : 483880
FAX No. : N. A.
E-mail : b.sridhar@acclimited.com,m
Phone : 07626- 271264, 272301
- (f) Police Station : Kymore
- (g) First opening date : 28-MAY-87
- (h) Weekly day of rest : THU
2. Address for : ACC Limited
correspondance P.O. KYMORE, VIA JUKEHI
DIST. KATNI (M.P.) 483501
3. (a) Lease Number : MPR0265
(b) Lease area : 1.12
(c) Period of lease : 20
(d) Date of Expiry : 27-MAY-17
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	:	Mining Scheme rule 12 MCDR1988	12-AUG-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	07-MAR-13
		Mining Scheme rule 12 MCDR1988	12-SEP-14
		MP modif under 17(3) MCR 2016	08-AUG-17

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	Nil	The Entire lease area has been explored upto G1 level	
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	NIL	
1e	Balance reserve as on 01/04/20	52000 tonnes	79000 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	Not Proposed.	NA	The whole lease area explored/excavated upto 45m. depth.The limestone of the lease area utilised for capttive cement plant.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The working proposed to be done in depth and the 340 m RL bench will be advanced towards south and west.	carried out as per proposed upto some extent as production is less compared to proposals.	violation 13(1) pointed out for less production.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not proposed in top soil & o/b ,one bench 4.60 high proposed in mineral limestone.	Done as proposed.	
2c	Stripping ratio or ore to OB ratio	Not proposed.	Not applicable as 100% recovery of mineral from ROM.	
2d	Quantity of topsoil generation in m3	Not proposed.	Not generated.	
2e	Quantity of overburden generation in m3	Not proposed.	Not generated.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not Proposed.	NA	The whole lease area is developed/excavated upto 45m. depth. Presently only mining is carried out in mineral limestone.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	28750 tonnes	8935 tonnes	violation 13(1) pointed out for less production.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
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 carried out.
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	Drilling & blasting proposed	Done as proposed.
3k	Provision of mining machineries in mineral benches	Excavator, dump er & drill machine proposed	Deployed as proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Only one bench proposed in mineral limestone.	Height is suitable for the mining method proposed
3m	Total area covered under excavation/pits	0.25ha. in depth	During the year 0.10ha. in depth & whole lease area 1.121ha. is covered under pit.
3n	Ore to OB ratio for the pit/mine during the year.	Not proposed.	Not applicable as 100% recovery of mineral from ROM.
3o	Total area put in use under different heads at the end of year	1.121 ha. in pit only.	Actual 1.121 ha. in pit only.

3p	Production of ROM mineral during the last five year period as applicable	2016-17 30937 tonnes 2017-18 46800 tonnes 2018-19 28437 tonnes 2019-20 28750 tonnes 2020-21 28750 tonnes	2016-17 20005.11 tonnes 2017-18 13052 tonnes 2018-19 19111.34 tonnes 2019-20 20749.38 tonnes 2020-21 8935 tonnes	
3q	General remarks of inspecting officers on method of mining etc.	Not Proposed.	NA	The mining in mineral bench limestone is carried out systematically as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Not applicable as generation of top soil,o/b & mineral reject not available.	
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed.	NA	
4c	Number of dumps within lease area and outside of lease area	Not Proposed.	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed.	NA	
4e	Number of active and alive dumps.	Not Proposed.	NA	
4f	Number of dead dumps.	Not Proposed.	NA	
4g	Number of dumps established.	Not Proposed.	NA	

4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed.	NA	
4i	Length of Retaining wall or garland drain all along dumps	Not Proposed.	NA	
4j	Number of settling ponds	Not Proposed.	NA	
4k	Specific comments of inspecting officer on waste dump management	Not Proposed.	NA	The whole lease area was developed earlier and presently top soil,o/b & mineral reject not available in the lease area.

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.	Not Proposed.	Lease area not fully exhausted presently for backfilling.	
5b	Area under backfilling of mined out area	Not Proposed.	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed.	NA	
5d	Total area fully reclaimed and rehabilitated	Not Proposed.	NA	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not Proposed.	NA	The whole lease area is developed/excavated upto 45m. depth. Presently only mining is carried out in mineral limestone & mineral is not exhausted fully from the lease area.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual return of PMCP for the year 2020-21 to be submitted.	Annual return of PMCP for the year 2020-21 is not submitted.	Violation of rule 26(2) pointed out.
6b	Area available for rehabilitation (ha) .	Not Proposed	NA	
6c	afforestation done (ha) .	Not Proposed	No area available for plantation within lease only outside of lease area plantation done every year by company. During the year 200 trees plantation done outside lease area in account of this lease.	
6d	No. of saplings planted during the year	Not Proposed	NA	
6e	Cumulative no .of plants	Not Proposed	NA	
6f	Any other method of rehabilitation	Not Proposed	NA	
6g	Cost incurred on watch and care during the year	Not Proposed	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	NA

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes,proposed.	Carried out as proposed.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not Proposed	NA	The lessee has not submitted annual PMCP report,however there is no proposal of backfilling,dumping,plantation as whole lease area is developed/excavated upto 45m. depth.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100% ROM is proposed to be dispatched	100% ROM is dispatched to captive cement plant as proposed.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not proposed	NA	The entire limestone mineral is used in the Cement plant.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil exists in the lease area hence not proposed.	NA	
8b	Concurrent use or storage of topsoil	Not Proposed.	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed.	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed.	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed.	NA	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not Proposed & NA no trees present in the lease area.		
8g	Survival rate	Not Proposed.	NA	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Regular water sprinkling done on roads to control airborne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Proposed.	NA	The whole lease area was excavated & part of big pit of the other leases of company. The sufficient plantation was done all around the main lease and with in main lease of company. The aesthetic beauty definitely affect due to mining.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR & AR to be submitted online in time.	MR upto December 2021 & AR upto 2020-21 submitted online in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Mr Manish Kumar Upadhayay Mining Engineer in charge Mr Dhruv Chaturvedi Geologist in charge Mr Nihar Ranjan Tripathy	Correct for the year 2020-21.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings- 1.121ha	Correctly given.
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year - 200 nos outside lease area	The details given seems to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil mineral reject generation given.	Mineral reject not generated during ROM.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock-Nil, graded ore stock-nil	In actual ROM Stock-Nil, graded ore stock-nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value-not applicable being captive purpose, Ex-mine price-Rs. 222.21/- & production cost-Rs. 222.21/-	The details given seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Fixed assets given Rs. 570803843/-	Actually this figure includes all leases. For this advise to mines manager segregate it separately lease wise.
9k	Scrutiny of Annual return on mining machineries	Excavator ,dumper & drill machine given	The details given seems to be correct.

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)	20-JAN-22			
MCDR17	Rule 26(2)	20-JAN-22			
MCDR17	Rule 46(a)	20-JAN-22			

Date :

(JAY KUMAR PANDEY)

Indian Bureau of Mines