

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-16

Mine code : 38MPR18050

- (i) Name of the Inspecting Officer and ID No. : **KQ06) NARESH KUMAR KATARIYA**
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine Official with Designation : Mr. Manoj Singh, DGM (Mines), Mr Mukesh Prasad(Mining)
- (iv) Date of Inspection : 03-FEB-21
- (v) Prev.inspection date : 07-MAR-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KYMORE & BAMANGAON**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : KYMORE&BAMANGAON
Taluka : VIJAYRAGHAVGARH
Post office : KYMORE
Pin Code : 483880
FAX No. : 07626-272303
E-mail : N. A.
Phone : 07626-272301
- (f) Police Station : Kymore
- (g) First opening date : 18-NOV-49
- (h) Weekly day of rest : SUN
2. Address for correspondance : ACC Limited
P.O. KYMORE, VIA JUKEHI
DIST. KATNI (M.P.) 483501
3. (a) Lease Number : MPR1694
(b) Lease area : 4568.08
(c) Period of lease : 10
(d) Date of Expiry : 16-OCT-99
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	02-FEB-95
Plan/Scheme of Mining		Modif.approved Mining Scheme	13-FEB-04
		Mining Scheme rule 12 MCDR1988	06-JUN-06
		FMCP under 23C(1)	24-MAY-07
		Modif.of approved Mining Plan	14-JUN-07
		Renewal under rule 24 MCR1960	03-JAN-10
		Modif.of approved Mining Plan	05-JAN-12
		Mining Scheme rule 12 MCDR1988	05-MAY-14
		Modif.approved Mining Scheme	13-JUN-16
		MP review under 17(1) MCR 2016	28-MAR-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	G1-596.23 Ha G2- 164.97 Ha G3-126.83 Ha Non Mineralized-632.19Ha	G1-596.23 Ha G2- 164.97 Ha G3-126.83 Ha Non Mineralized-632.19Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Departmental	Departmental	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2-164.97 Ha	G2-164.97 Ha	At village Amraiya
1e	Balance reserve as on 01/04/20		Balance Reserve as on 01.04.2020 111 category 101.77 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Geological exploration panning at village Amraiya of the ML area.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	MGH NP MLN 18A- MLN 33 OP MLN 10 - MLN 16 MLN A - MLN 2 DEOSARI MLN B - MLN H. BMG BLOCK I ML 4 - ML 6 BLOCL II ML 4 - ML 6 BLOCK III ML 18 - ML 23 ML 25 - ML 27	MGH NP MLN 18A- MLN 33 OP MLN 10 - MLN 16 MLN A - MLN 2 DEOSARI MLN B - MLN H. BMG BLOCK I ML 4 - ML 6 BLOCL II ML 4 - ML 6 BLOCK III ML 18 - ML 23 ML 25 - ML 27	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Bench in OB	Separate Bench in OB	
2c	Stripping ratio or ore to OB ratio	1:0.39 (MHG), 1:0.42 (BMG),	1:0.41 (MHG), 1:0.38 (BMG)	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	13.84 Lakh T(MHG), 4.749 Lakh T(BMG)	8.98 Lakh T (MHG) , 4.24 Lakh T (BMG)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Fully mechanised Opencast method of mining used for development of pit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	06 pits	06 pits	
3b	Quantity of ROM mineral production proposed	30.10 lakh T (MHG) , 14.99 lakh T (BMG)	22.15 lakh T (MHG) , 11.21 lakh T (BMG)	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA	ROM directly dispatched to captive plant
3d	Quantity of mineral reject generation	Nil	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Not applicable	
3g	Grade of sub grade mineral generation	Nil	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Not applicable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	ROM dispatched to captive plant. No beneficiation study proposed	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Yes	Blasthole drills 115 mm dia. and blasting deep-hole blasting with bottom initiation with milli-second delay.	
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	Yes	hyd shovel 4.2 ,cum 2 no hyd shovel 4.5 cum 1 no hy backhoe 3.5 cum 1 no dumpers 60t 5 no dumpers 50t 3 no drill machine 115mm no 2 dozer 316 hp 2 no	
3m	Total area covered under excavation/pits	302.5 Ha	300.25 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.39 (MHG) , 1:0.42 (BMG),	1:0.41 (MHG) , 1:0.38 (BMG)	
3o	Total area put in use under different heads at the end of year	517.77 Hect	517.77 Hect	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 45.5 Lakh T 2016-17 46.5 lakh T 2017-18 45.6 lakh T 2018-19 45.6 lakh T 2019-20 47.88 lakh T 2020-21 43.89 lakh T	2015-16 37.52 Lakh T 2016-17 35.98 Lakh T, 2017-18 26.07 Lakh T (MHG), 13.44 Lakh T (BMG) 2018-19 23.63 Lakh T (MHG), 9.59 Lakh T (BMG) 2019-20 26.58 Lakh T (MHG), 14.12 Lakh T (BMG) 2020-21 22.15 Lakh T (MHG), 11.21 Lakh T (BMG)	
3q	General remarks of inspecting officers on method of mining etc.			Opencast fully mechanised method of mining is adopt for mine development and exploitation.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The top soil will be utilised simultaneously for topping of the backfilled area in east of Bamangaon quarry	Top Soil not generated
4b	Location of topsoil, OB and mineral reject dumps	No Dumps Proposed	Reject is backfilled into Bamangon and Mehgaon backfilling area.
4c	Number of dumps within lease area and outside of lease area	No proposed external Dump	Old Dumps is rehabilitated
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil
4e	Number of active and alive dumps.	Nil	Nil
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	11 numbers	11 numbers
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes
4i	Length of Retaining wall or garland drain all along dumps	Nil	2800
4j	Number of settling ponds	Nil	01
4k	Specific comments of inspecting officer on waste dump management		

Solid Waste Management - Backfilling:

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 in fully extracted mineral land	Backfilling in fully extracted mineral land
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 will be used for plantation
5d	Total area fully reclaimed and rehabilitated	1 ha.	1 ha.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha) .	NIL	NIL	
6d	No. of saplings planted during the year	16000 Nos	9390 (MHG) , 7000 (BMG)	
6e	Cumulative no .of plants	Not Proposed	682000 nos	

6f	Any other method of rehabilitation	Not proposed	Nil
6g	Cost incurred on watch and care during the year	3.5 Lakhs	3.5 Lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	6800 m3	6800 m3
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	100 m3	100 m3
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	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	1.8 Hect	1.0 Hect
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	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes
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 mieral dispatch to captive plant	ROM mieral dispatched directly to captive plant as per records.	Only Crushing is proposed at crusher Head. Sizing of ore done by mechanical crusher.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Crusher at Pit Head	Sizing of ore done by mechanical crusher	
7c	Different grade of mineral sorted out at mines.	NO	Not applicable.	
7d	Any beneficiation process at mines	Not proposed	Not applicable.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mieral dispatched directly to captive plant as per records.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The top soil will be utilised simultaneously for topping of the backfilled area and for forestation.	The top soil is utilised simultaneously for topping of the backfilled area and for forestation	
8b	Concurrent use or storage of topsoil	Nil	Nil	No top soil generated in the RY 2019-20
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in mined out Pits.	Backfilling was done in the mined out Pits in Block-I and Old Pit.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.0 Ha	1.0 Ha	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	15000 plants	20000 plants	
8g	Survival rate	80%	80- 85 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Water Spraying was done by water Tanker during inspection	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation was done in the non mineralised waste land. Green belt developed around the mine area.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly return and Annual Return Submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer- Sh. Brajesh Singh Sh. Sanjeev Sharma Geologist: Mr Angshuman Kundu	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	517.77 Hect	Area is reconciled by survey team of mines
9d	Scrutiny of Annual return on afforestation		Afforestation done inside and outside lease area	Afforestation done inside and outside lease area
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	NIL	No Stock present at Mines
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Not applicable, as this is captive Mine	

9h	Scrutiny of Annual return on fixed assets	Yes	Fixed asset data are checked and found as per Annual Return
9k	Scrutiny of Annual return on mining machineries	Yes	hyd shovel 4.2 ,cum 2 no hyd shovel 4.5 cum 1 no hy backhoe 3.5 cum 1 no dumpers 60t 5 no dumpers 50t 3 no drill machine 115mm no 2 dozer 316 hp 2 no

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

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines