

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

Check up inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-16

Mine code : 38MPR18050

- (i) Name of the Inspecting : **NQ07**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **SHRI MANOJ SHANKAR SINGH, AVP**
Official with
Designation
- (iv) Date of Inspection : 16-MAR-22
- (v) Prev.inspection date :

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 : ACC Limited
correspondance 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	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1 - 596.23 ha, G2 - 291.80 ha Non mineralized area 632.19 ha	G1 - 596.23 ha, G2 - 291.80 ha Non mineralized area 632.19 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 - 164.97 ha	G2 - 164.97 ha	
1e	Balance reserve as on 01/04/20		Reserve in 111 - 112.070 Million tone	
1f	General remarks of inspecting officers on geology, exploration etc			Yet to achieve G1 level of exploration of 596.23 Ha. of potential mineralised area.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	BMG ML29-ML26-Block 3 NW ML25-ML23-Block3 South	BMG ML29-ML26-Block 3 NW ML25-ML23-Block3 South	
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	1:0.35 (MHG), 1:0.47 (BMG),	1:0.49 (MHG), 1:0.28 (BMG),	

2d	Quantity of topsoil generation in m3	BMG -Nil MHG -19464	BMG- Nil MHG -12250	
2e	Quantity of overburden generation in m3	BMG & MHG - 2022050 tones	BMG & MHG - 1323102 tones	The mine development was lagging from the approved proposal. Violation pointed out for same.
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
3a	Number of pit proposed for production	BMG -1 pits MHG - 03 pits	BMG -1 pits MHG - 03 pits	
3b	Quantity of ROM mineral production proposed	BMG & MHG - 45.09 Lakh tone	BMG & MHG - 33.36 Lakh tone	Violation pointed out for less production in the year 2020-21.
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	Not applicable	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	Yes
3m	Total area covered under excavation/pits	306 Ha	306 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.35 (MHG) , 1:0.47 (BMG) ,	1:0.49 (MHG) , 1:0.28 (BMG) ,
3o	Total area put in use under different heads at the end of year	546.57 ha	531.57 ha

3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 46.5 Lakh tone (BMG & MHG) 2017-18 - 13.55 lakh tone (BMG) & 32.0 Lakh Tone (MHG) 2018-19 - 13.55 lakh tone (BMG) & 32.0 Lakh Tone (MHG) 2019-20 - 14.99 lakh tone (BMG) & 32.890 Lakh Tone (MHG) 2020-21 - 14.99 lakh tone (BMG) & 30.10 Lakh Tone (MHG)	2016-17 - 35.98 Lakh tone (BMG & MHG) 2017-18 - 13.44 lakh tone (BMG) & 26.23.6332.0 Lakh Tone (MHG) 2019-20 - 14.12 lakh tone (BMG) & 26.58 Lakh Tone (MHG) 2020-21 - 11.21 lakh tone (BMG) & 22.15 Lakh Tone (MHG)	Violation pointed out.
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
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.	Top soil used for plantation in backfilled area.	
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 mtrs	
4j	Number of settling ponds	Nil	01	
4k	Specific comments of inspecting officer on waste dump management			Reject is backfilled into Bamangon and Mehgaon backfilling 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.	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	BMG - 0.75 ha, MHG - 1.49 ha	BMG - 0.60 ha, MHG - 1.5 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Top Soil generated will be used for plantation

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) .	BMG - 0.75 HA MHG - 1.49 HA	BMG - 0.60 HA MHG - 1.5 HA	
6c	afforestation done (ha).	BMG - 00 MHG - 2 ha	BMG -3.40 ha MHG - 3.7464 Ha	
6d	No. of saplings planted during the year	BMG - 5000 NOS MHG - 5000 NOS	BMG - 7120 NOS MHG - 9366 NOS	
6e	Cumulative no .of plants	Not specified	250501	
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 (Lx 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
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	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	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.			Annual PMCP report submitted in time.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mialal dispatch to captive plant	ROM mialal 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 mialal dispatched directly to captive plant as per records.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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
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)	BMG - 0.75 ha MHG - 1.49 ha	BMG - 0.60 ha MHG - 1.5 ha
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	15000 plants	20000 plants
8g	Survival rate	80%	90%
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		Mining Engineer- Sh. Mukesh Prasad (BMG) Sh. Ansuman Kundu (MHG) Geologist: Mr Sanjeev Sharma	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Total area put in use under different head - 531.57 ha	
9d	Scrutiny of Annual return on afforestation		Afforestation done inside and outside lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		As per AR	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Not applicable, as this is captive Mine	
9h	Scrutiny of Annual return on fixed assets		Fixed asset data are checked and found as per Annual Return	

9k	Scrutiny of Annual return on mining machineries	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
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show couse position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
Rule 63		13-APR-22		Rule 63		13-APR-22	
MCDR17	Rule 11(1)	13-APR-22		MCDR17	Rule 11(1)	13-APR-22	
MCDR17	Rule 27(1)	13-APR-22	26-MAY-22				

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines