

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-114

Mine code : 38MPR18111

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh Manish Kumar Upadhyay, Sh Sanjeev Sharma
Official with
Designation
- (iv) Date of Inspection : 26-NOV-19
- (v) Prev.inspection date : 18-NOV-13

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MEHGAON**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : MEHGAON, DEOSARI
Taluka : VIJAYRAGHAVGARH
Post office : MEHGAON
Pin Code : 483880
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 15-MAR-89
- (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 : MPR2519
(b) Lease area : 1520.22
(c) Period of lease : 20
(d) Date of Expiry : 16-OCT-09
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 :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	there was no proposal given for the exploration in the reporting year	there was no backlog of exploration in the mine	
1b	Exploration over lease area for geological axis 1 or 2	entire mineralised area exploration breakup is as below mineralised area 888.03 hect, non-mineralised area-632.19 hect mineralised area exploration as per UNFC is as below G1-253.01, G2-441.85, G3-193.17	out of mineralised area exploration as per UNFC is as below G1-253.01, G2-441.85, G3-193.17 G2-441.85 hectare needs to explore upto G1 level of exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Mentioned	Expenditure not mentioned as there was no exploration proposal given for the RY 2019-20	
1d	Balance area to be explored to bring Geological axis in 1 or 2	entire mineralised area explored upto G1 level and G2 level in 441.85 hect	G1 level 253.01 and G2 level in 441.85 hect	
1e	Balance reserve as on 01/04/20	as on 01.04.2019 111-135.29 Mt 221-51.79 Mt 333-10 Mt	as on 01.04.2020 111-30.2077 Mt 221-51.79 Mt 333-10 Mt	

1f	General remarks of inspecting officers on geology, exploration etc	limestone of the ml area belongs to rohtas formation of vinhyan super group in kymore series. limestone of the ml area is light to dark grey in colour, hard and compact, with some small patches of shales in places, fine to medium graine limestone.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to do development work in the mehgain and dosari mine in the year 2019-20	in the mehgaon mines the development was in the north and east side of the pit and in dosari mine northwest to south	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches were proposed in the ML	Separate benches were prepared and maintained soil or OB bench is of 1-1.5 meter depending upon the availability of Soil, Mineral bench is of 8-9 meter height in limestone.	
2c	Stripping ratio or ore to OB ratio	for the year 2019-20 1:0.65 and 1:0.45	1:0.55 and 1:0.50 for both the mehgaon and dosari mines	
2d	Quantity of topsoil generation in m3	7063 cum in dosari mine	6500 cum approx in dosari mine	
2e	Quantity of overburden generation in m3	196462 cum	185694 cum	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	development was in proposed place
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits in both the mehgaon & dosari	two pits in the mehgaon and dosari mine	
3b	Quantity of ROM mineral production proposed	2971427.65 tonnes	2392271.990 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	ROM is proposed to be used in captive cement plant	ROM is being used in captive cement plant	
3d	Quantity of mineral reject generation	Not Proposed	No mineral reject generated ROM is being used in captiv ecement plant	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NIL	
3f	Quantity of sub grade mineral generation.	Not Propsoed	NIL	
3g	Grade of sub grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted	mechanised screening under use	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NIL
3j	Provision of drilling and blasting in mineral benches	Proposed	as per proposal
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed height and width of the benches are suitable	bench height & width are suitable for mining as per approved mining plan
3m	Total area covered under excavation/pits	288 hect	288 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.45	1:0.44
3o	Total area put in use under different heads at the end of year	477.30 hect	470.00 hect
3p	Production of ROM mineral during the last five year period as applicable	2014-15=1355000 2015-16=1355000 2016-17=1355000 2017-18=1355000 2018-19=1355000 2019-20=2971427.65	2014-15=1072088 2015-16=1069040 2016-17=1148947 2017-18=1344170 2018-19=1344240 2019-20=2392271

3q	General remarks of inspecting officers on method of mining etc.	mining was being done in the two pits mehgaon and dosari pit block 3 and Block 1
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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	Separate dumping is being done for the ob/ib and mineral	
4b	Location of topsoil, OB and mineral reject dumps	it was proposed to dump waste and ob near the pit no 3 in mehgaon pit	dumps are located in the near to the pit no 3 in mehgan pit	
4c	Number of dumps within lease area and outside of lease area	three dumps of waste and OB	three dumps of waste/ob	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	out side the UPL	outside the UPL	
4e	Number of active and alive dumps.	three active dumps and 1 dead dump	three active waste dumps are present in the ML area and one dead dump	
4f	Number of dead dumps.	one dead dump	one dead dump	
4g	Number of dumps established.	one dump	one dump established by means of plantation and geotextiled	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	retaining wall prepared all around the dump with garland drain	
4i	Length of Retaining wall or garland drain all along dumps	it was propsoed to prepare	200 meter garland drain prepared and 150 meter of retaining wall	
4j	Number of settling ponds	one settling pond	one settling pond	

4k	Specific comments of inspecting officer on waste dump management	dumps are being protected by preparing garland drain and retainign wall over the dead dumsp planttaion were done
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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 extrcation of the mineral was proposed	full extrcation of the mineral is being done on the ML	
5b	Area under backfilling of mined out area	15 hect	15.65 hect	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top Soil proposed to be used in plantation	top soil ien being use din plantation over the backfilled area	
5d	Total area fully reclaimed and rehabilitated	67.21 hect	70.00 hect	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			generated waste and ob is being used in backfilling and top soil is being used in plantation

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Submitted
6b	Area available for rehabilitation (ha) .	67.21 hect	67.21 hect
6c	afforestation done (ha).	4.00 hect	4.00 hect
6d	No. of saplings planted during the year	10000 nos	9225 nos
6e	Cumulative no .of plants	15000	13500 aprox
6f	Any other method of rehabilitation	Not Proposed	NIL
6g	Cost incurred on watch and care during the year	Not Mentioned	NIL

Mineral Conservation:

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

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM is being dispatched to captive cement plant
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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Soil is being seperately removed and use din plantation ove the backfilled area	
8b	Concurrent use or storage of topsoil	Proposed to be used in plantation	soil is being used in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	fully excavated area is being backfilled	
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	as per approved mining plan	

8g	Survival rate	90%	88%	
8h	Water sprinkling on roads to control airborne dust	proposed	water tanked and sprinkellers are being used	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements by means of plantation and its maintanece

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR & MR Submitted	AR & MR Submitted online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Manager Mr.Manoj shankar Singh Mining Engineer in charge Mr.Angshuman Kundu Geologist in charge Mr. Sanjeev Kumar Sharma	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 297.250 297.250 (iii) Reclaimed/Rehabilitated 0.000 119.430 119.430 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 118.870 118.870 (vi) Other Purpose (Plantation) 0.000 51.370 51.370 (vii) Wo	
9d	Scrutiny of Annual return on afforestation	4.4 (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 9225 0 (ii) Survival rate in percentage 88.00 0	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	NA
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnishd	Furnished

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	ex mine price 189.89 INR cost of production 214.91 INR	as per submitted AR 2019-20
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in .) 1162313665 INR	
9k	Scrutiny of Annual return on mining machineries	<p>Type and aggregate Horse Power of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc. Details of any new machinery added during the year may be furnished with cost.</p> <p>Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) DOZER 316.000 HP 2 Non Electrical Opencast DUMPER 50.000 TONNE 2 Non Electrical Opencast D</p>	

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

Date :**(DEEPAK SHARMA)**

Indian Bureau of Mines