

**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 : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 27-NOV-19
- (v) Prev.inspection date : 04-AUG-17

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 : 20
- (d) Date of Expiry : 20-APR-11
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	in the RY 2018-19 one borehole was proposed at 150 grid interval of 30 m depth	exploration not done as per proposal	
1b	Exploration over lease area for geological axis 1 or 2	mineralized area explored upto G2 level of exploration one borehole proposed to convert G2 in to G1	Exploration was not done as per proposal, G2-4.10 and G1-3.91 hectare	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration not proposed	Acc ltd exploration/drilling unit it self engaged for exploration	
1d	Balance area to be explored to bring Geological axis in 1 or 2	it was proposed to explore G2 area to bring in G1 i.e. G2-4.10 and G1-3.91 hectare	as per current exploration level about 3.91 hectare area comes under G1 and 4.10 comes under G2	
1e	Balance reserve as on 01/04/20	as on 01/04/2017 reserve was 0.841741 mt	as on 01/04/2019 balance reserve is 0.841741-19022.520 (production reported in AR 2018-19) =0.8227 mt	reported production is on lower side in comparison to proposed production.
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	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	development was proposed in the North portion of the lease area in the UTM grid N 2666630 to N 2666500 and E 473010 to E 473100	Development work is as per proposal with slight slower rate in between UTM grid N 2666600 to N 2666450 and E 473010 to E 473085	Development is as per proposal with slower rate
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in Top soil, OB and mineral (limestone proposed) Top Soil of 1.5 meter OB height 1.5 meter, mineral bench (limestone) 6 meter width shall vary due to working phase.	Top Soil 1-1.5 meter OB bench with the height of 1.5 meters, mineral bench i.e. limestone of 6-6.5 meter.	height of top soil bench varries, reason top soil availability in the ML
2c	Stripping ratio or ore to OB ratio	1.0.50	1.0.40 aprox	
2d	Quantity of topsoil generation in m3	6258 cubic meter of top soil was proposed to be generated in the RY 2018-19	almos 4500 cubic meter top soil generated in the RY 2018-19	
2e	Quantity of overburden generation in m3	1771 cubic meter OB was proposed to be generated in the RY 2018-19	1584 cubic meter OB generated in the RY 2018-19	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development was proposed in the North portion of the lease area in the UTM grid N 2666630 to N 2666500 and E 473010 to E 473100	Development work is as per proposal with slight slower rate in between UTM grid N 2666600 to N 2666450 and E 473010 to E 473085	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit was proposed for the production in the RY 2018-19	One pit is being used for production	
3b	Quantity of ROM mineral production proposed	39848 was proposed in the RY 2018-19	19022.52 was achieved in the RY 2018-19	
3c	Recovery of sailable/usable mineral from ROM production	NIL	NIL	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method for segregation from ROM was proposed	Mechanised method for segregation from ROM is being used i.e. screening	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	There was no proposal given for any analysis and or for beneficiation process	any analysis and or beneficiation process neither proposed nor done	
3j	Provision of drilling and blasting in mineral benches	proposal for drilling and blasting in mineral benches were proposed	drilling and blasting is being in process as per proposal given	

3k	Provision of mining machineries in mineral benches	mining machineries in mineral benches were 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	6 meter height of bench is proposed in mineral i.e. limestone and 1.5 meter height of bench proposed in OB	mineral bench height varries from 6-7 meter and OB bench is of 1.5 meter
3m	Total area covered under excavation/pits	it was proposed to bring 2.05 hect are under excavation upto the plan period	the total area under excavation till the date of inspection is 1.82 hectare approx
3n	Ore to OB ratio for the pit/mine during the year.	1:0.50	1:0.45 aprox
3o	Total area put in use under different heads at the end of year	2.09 hecatare area was proposed under different heads at the end of the year	actual as on date of inspection around 1.82 hectare area comes under
3p	Production of ROM mineral during the last five year period as applicable	2014-15-40500 2015-16-48870 2016-17-48600 2017-18-38137 2018-19-39848	2014-15-0 2015-16-19946 2016-17-11227 2017-18-5446 2018-19-19022
3q	General remarks of inspecting officers on method of mining etc.		opencast minign is being carried out with the deplyoment of HEMM

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)	Seperate dumping of top soil and ob was proposed.	Seperate dumping of overburden is being carried out top soil not generated durign the RY 2018-19
4b	Location of topsoil, OB and mineral reject dumps	Overburden dumping was proposed on the southern and eastern side of the lease area. mineral reject dumping proposed.	Overburden dumping done on the southern and eastern side of the lease as per proposal.
4c	Number of dumps within lease area and outside of lease area	as per proposal two dump was proposed within the lease area	both the dumps area within the 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 and one old dump in the eastern southern part of the lease area
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.	retaining wall and garland drain was proposed	garland drain all along the dump, and retaining wall prepared
4i	Length of Retaining wall or garland drain all along dumps	100 -150 m retaining wall proposed	100 m retaining wall proposed all along the dump
4j	Number of settling ponds	NIL	NA
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 extratction of the mineral proposed before backfilling	No area fully extracted therefore no area backfilled yet	
5b	Area under backfilling of mined out area	No proposal for backfilling	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposal for use of top soil for planttaion	generated top soil is being used in planttaion	
5d	Total area fully reclaimed and rehabilitated	No proposal for reclaimanation and rehabilitation	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	No area fully mature enough for reclaimanation 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	Not Submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	proposal was for 0.40 hect	0.40 hectare done aprox	

6d	No. of saplings planted during the year	500	1100 aprox
6e	Cumulative no .of plants	1200	2500 aprox
6f	Any other method of rehabilitation	Not proposed	NA
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) Afforestation on backfilled area	proposed	done as per proposal 1100 aprox
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	plantation was proposed	plantation done as per proposal
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring was proposed	ambient air water noise are done
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 mineral dispatched is proposed	ROM mineral is being dispatched to cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NIL	ROM used in captive cement plant
7c	Different grade of mineral sorted out at mines.	NIL	NIL	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	the entire ROM is being dispatched from lease to cement plant	the entire ROM is being dispatched from lease to cement plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	No top soil generated in the RY 2018-19	
8b	Concurrent use or storage of topsoil	Plantation was proposed	No top soil was generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumping was proposed	dumping was carried out as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB and waste rejects 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 prposal	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal
8g	Survival rate	80 %	90 %
8h	Water sprinkling on roads to control airborne dust	water sprinkling proposed	water sprinkling was done with 5KL water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	the asthetic beauty of the area is good and surrounded by agriculture field	the asthetic beauty of the area is good and surrounded by agriculture field

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR Subitted upto 2018 and MR submitted upto Dec 2019	AR Subitted upto 2018 and MR submitted upto Dec 2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	infomation of mining engineer and geologist mentioned in the AR	geologist and mining engineer employed at the mine site on parttime basis	voilation issued for full time mining engineer and geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	provided	provided	
9d	Scrutiny of Annual return on afforestation	NA	NIL	
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	ROM closing stock at the end of the year 2018-19 is NIL	NIL	captive mine
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	provided	provided	
9h	Scrutiny of Annual return on fixed assets	provided	provided in AR	
9k	Scrutiny of Annual return on mining machineries	provided , accumulated for the other lease also	provided accumulated with the other lease	

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)	18-DEC-19			
MCDR17	Rule 26(2)	18-DEC-19			
MCDR17	Rule 33	18-DEC-19			
MCDR17	Rule 35(2)	18-DEC-19			
MCDR17	Rule 55(1) (3)	18-DEC-19			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines