

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/KTN/LST-61

**Mine code :** 38MPR18025

- (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** : **GANGA - I ( 5.76 HA )**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (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 : snsktkn@sancharnet.in  
Phone : 07622- 221976, 222304
- (f) Police Station :
- (g) First opening date : 03-APR-78
- (h) Weekly day of rest : THU
2. Address for : M/S ACC Limited  
correspondance : P.O. KYMORE, VIA. JUKEHI,  
DIST KATNI (M.P.) 483501
3. (a) Lease Number : MPR0264
- (b) Lease area : 5.76
- (c) Period of lease : 20
- (d) Date of Expiry : 02-APR-18
4. Mineral worked : LIMESTONE Main  
DOLOMITE Associated

## 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	04-AUG-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06-MAR-13
		Mining Scheme rule 12 MCDR1988	18-SEP-14
		MP modif under 17(3) MCR 2016	15-JAN-18

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	additional explortaion was not proposed	exploration was not done	Entire area under G1 Level
1b	Exploration over lease area for geological axis 1 or 2	Not Applicable	Not Applicable	Entire area already explored upto G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	Not Applicable	Entire area already explored at G1 level
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Applicable	Not Applicable	
1e	Balance reserve as on 01/04/20	as on 01.04.2018 111-2876457 221-0	as on 01.04.2020 111-2806609 221-0	
1f	General remarks of inspecting officers on geology, exploration etc			ML area belong to rohtas formation of vindhyan super group, light grey to dark grey in colour, fine to medium grained limestone, in nature it is hard and compact. found in the kymore series

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	the working was proposed in the north west part of the quarry with advancement towards the western direction of the lease area	the workign was advance towards the western direction of the ML area in between the grid lines of N 2657900-2658100 to E 456500-456600	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB Bench of 2.0 meter 2 Limestone Bench of 8-9 meter	OB bench of 1.5 to 2.0 meter 2 limestoen bench 1st bench is of 7-8 meter second working bench is of 8-9 meter	
2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.22	
2d	Quantity of topsoil generation in m3	5000 cum	4568 cum	
2e	Quantity of overburden generation in m3	Not Proposed	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			working was as per the proposal with less production

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	20000 cum / 50000 tonnes	2019-20 production 38423.98 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	NIL	NIL	ROM is being used in captice cement plant

3d	Quantity of mineral reject generation	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	not proposed	screening method adopted
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	drilling and blasting proposed in mineral benches	drilling and blasting 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 benches area suitable for mining as per the approved mining plan
3m	Total area covered under excavation/pits	5.76 hect	5.76 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25	1:0.22

3o	Total area put in use under different heads at the end of year	0.152 hectare proposed in teh name of excavation	0.132 hectare used
3p	Production of ROM mineral during the last five year period as applicable	proposal for 2014-15 - 49680, 2015-16- 50625, 2016-17 - 50859 2017-18 - 50550 2018-19 - 31850 2019-20-50000	actual for teh year 2014-15 - 6076.71, 2015-16 - 1924.80, 2016-17 - 20013.90 2017-18 - 37596 2018-19 - 31424 2019-20 - 38423.980
3q	General remarks of inspecting officers on method of mining etc.	opencast mining method with deployment of HEMM is being done	opencast mining method with deployment of HEMM is being done

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	as per proposal in the southern part of the ML area	
4b	Location of topsoil, OB and mineral reject dumps	in the southern portion of the lease area	in the southern portion of the lease area	
4c	Number of dumps within lease area and outside of lease area	one dump inside the ML area	on edump in the ml area in southern portion of the ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the ultimate pit limit	outside the ultimate pit limit	
4e	Number of active and alive dumps.	one	one	
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.	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	
4j	Number of settling ponds	NIL	NA	
4k	Specific comments of inspecting officer on waste dump management			top soil is being used for plantation

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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 extraction of the mineral is proposed	full extraction in undergoing upto the UPD	
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)	proposed	for planttaion over barrier zone 7.5 meter	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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## 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	submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	250 nos	350 nos	
6e	Cumulative no .of plants	1500 nos	1000 nos	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	

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.	NIL	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NIL	NIL	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	monitoring proposed	monitoring done results within limits	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	

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Mineral Conservation:

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Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch is proposed	ROM dispatched to captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Not Done	Entire ROM is dispatched to captive cement plant.
7c	Different grade of mineral sorted out at mines.	NA	ROM is being dispatched	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	the entire ROM is being dispatched from the lease	teh entire ROM is being dipatched from lease to Banamgaon mine	Enrite ROM is disptched for its captive cement plant. any beneficiation neither proposed nor carried out.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	the top soil will be utilised for topping of teh backfilled area in teh east of Bamangaon quarry	No top soil was generated	No top soil was generated due to lagging
8b	Concurrent use or storage of topsoil	proposal for use of top soil for topping of backfilled area	Top soil not generated	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No waste rock / reject generation proposed	NA
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No waste rock / rejects generation proposed	NA
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Done	total 1200 plants were planted with the 92% survival rate
8g	Survival rate	80% proposed	92 % survival rate
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	the asthetic beauty of the area is good and surrounded ny agriculture fields	the asthetic beauty of the area is good and surrounded ny agriculture fields

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	production reported 20013.900, cost of production 222.47 rs/tonnes	AR and MR submitted online till the date of inspection
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	full time graduate mining engineer, diploma mining engineer and part time geologist	geologist and mining engineer employed at the mine site
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	5.5 hectare area was covered under current working/ operations and 0.26 hectare for use of waste disposal	the area put to use found correct
9d	Scrutiny of Annual return on afforestation	NA	afforestation done outside teh 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	NIL	No stock present at mine site
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NA	NA its an captive mine
9h	Scrutiny of Annual return on fixed assets	value of fixed asset 610355718 Rs	Observed as submitted in returns
9k	Scrutiny of Annual return on mining machineries	No information given in return	the machinery from nearby lease of same lessee is used.

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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

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines