

MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Mr .Madhavrao Sabre
2	Designation	Sr.Mining Geologist
3	Accompanying mine official with Designation	Mr.Manoj Shankar Singh (Head Mines), Mr. Mukesh Prasad(Sr.Manager-Mines), Mr.Sanjeev Kumar Sharma(Sr.Manager-Geology)
4	Date of Inspection	03-11-2023
5	Previous Inspection date	03-02-2023

Part-I: General

S.No	Particulars	Details
1	Name of the Mine	Kymore and Bamangaon Limestone Mine and Mehgaon Limestone Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- 0.00 Ha Non Forest Land (Barren Land)- 1520.22 Ha Total – 1520.22 Ha
3	Mine code	38MPR18050 & 38MPR18111
4	IBM Registration Number under rule 45 of MCDR,1988	256
5	Name of the lessee, Address, Phone, email and fax number	M/s. ACC Limited Cement House121, M K Road, Mumbai District : MUMBAI (SUBURBAN) State : MAHARASHTRA PIN Code: 400020 Fax No: 02225811618 Phone No: 02267973967
6	Village	Koilia and 15 villages
7	Taluka/Mandal	VIJAYRAGHAVGARH
8	District	Katni
9	Pin code	483880
10	State	Madhya Pradesh
11	Post Office	Kymore
12	Nearest Police Station	Kymore
13	Nearest Railway Station	Katni
14	Date of opening of Mine	03.10.1955
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr Ajay Kapur Ph No- 02267973967 Date of Appointment:03-12-2022
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr Vaibhav Dixit Ph No- 7781019970 Date of Appointment: 03-11-2022
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Manoj Shankar Singh Ph No- 9893405200 Date of Appointment:26.04.2011 Mr Mukesh Prasad Ph No- 9893024204 Date of Appointment: 09.03.2021
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr Angshuman Kundu B.E in Mining Engineering Experience-17 years

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		Date of Appointment:13.09.2013 Ph No- 9893405120
19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Sanjeev Kumar Sharma is full time Geologist Date of Appointment:01-09-2011
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Letter No.-314(3)/2011-MCCM(CZ)/MP-27
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	28.03.2019 ; Letter No. MP/Katni/Limestone/RMP-65/18-19/7963
22	Mineral(s) granted in lease and approved for Mining	Limestone and Clay
23	Method of Mining (Opencast, Underground)	Open Cast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
25	Captive/Non-Captive	Captive

Details about Mining Plan/ Review of Mining Plan etc

a) Letter No. and date of approval of mining plan	:	E 4178 MCDR-MPCOLST/4/2023-JBP-IBM_RO_JBP, Dt:/18/04/2023
b) Letter No. and date of approval of review of mining plan	:	Not applicable
c) Condition while approving the MP/ RMP/ modification	:	Modification
d) Period of mining plan/ mining scheme in force :	:	01-04-2023 to 31-03-2024

PART III-MCDR Report details.

1. **Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year (before 2022-23)	Nil	NA	
1b	Exploration over lease area for Geological axis 1 or 2 (for 2022-23)	G1-596.23 Ha G2/G3-291.80 Ha Non Mineralized-632.19Ha	G1-596.23 Ha G2/G3-291.80 Ha Non Mineralized-632.19Ha	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2022-23)		No exploration carried out during the period 2022-2023	Violation issued.
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2022-23)	G2-164.97 Ha	G2-164.97 Ha	
1e	Balance reserves as on 01.04.2023		Reserve in 111 category 96.29 Million ton	
1f	General remarks of Inspecting officer on geology, exploration etc.	The rock formations exposed in Kymore region belong to the Vindhyan Supergroup of middle Pro-terozoic age. The Vindhyan basin is one of the most spectacular Proterozoic basins of the Indian subcontinent. This Supergroup of rocks is spread over an area of more than 100,000 sq.km, of which about 60,000 sq.km. is exposed for direct observation and the remaining area is covered by the younger Deccan traps (Basalt – Cretaceous) and alluvium. The Vindhyan sedimentary succession is two-		

		tiered; an unconformity and its correlative conformity surfaces divide the Vindhyan Super group into Lower Vindhyan Group (also known as Semri Group) and Upper Vindhyan Group. Kymore limestone has a general strike direction of Northeast and Southwest dipping generally to-wards West-Northwest with a dip amount varying from 10° to 20° except where the beds have been thrown into minor folds. Limestone beds are jointed and these joints are parallel to the bedding planes. The joints are filled with clay. Exploration not taken up in RY for which violation issued.
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2. Development (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	MGH ML-0 to ML-6(ML-6 to ML-8 (E450037, N2653444) (E452858, N2655111) BMG ML29- ML25 – block 3 NW ML25 – ML22(O)- Block 3 South (E456183, N2657637) (E 457681, N 2658938)	MGH ML-0 to ML-6 ML-6 to ML-8 (E450037, N2653444) (E452858, N2655111) BMG ML29- ML25 – block 3 NW ML25 – ML22(O)- Block 3 South (E456183, N2657637) (E 457681, N 2658938)	Development work done as per the approved mining plan
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate Bench in OB	Separate OB bench	
2c	Stripping ratio or ore to OB ratio	(Mehgaon) Main Pit- 1:0.42 Deosari Pit- 1:0.67 (Bamangaon) 1:0.48	Main Pit-1:0.35 Deosari Pit- 1:0.43 (BMG)1:0.51	
2d	Quantity of topsoil generation in m3	11890 6802	48176(MHG) 5824(BMG)	
2e	Quantity of overburden generation in m3	285369	1218787 224677	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development work is taken up as per proposal.		

3. Exploitation FY 2022-23

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	3(MHG) 1(BMG)	3 1(BMG)	
3b	Quantity of ROM mineral production proposed	31.88 lakh T-MHG 14.9 lakh T (BMG)	23.46 lakh T -MHG 9.8 lakh T (BMG)	Violation pointed out for shortfall in production targets
3c	Recovery of Salable/usable minerals from ROM production	Nil	Nil	
3d	Quantity of mineral reject	Nil	Nil	

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	generation			
3e	Grade of mineral reject generation and threshold value declared	NIL	NA	Cao<34%, Mgo>5%
3f	Quantity of sub-grade mineral generation	NIL	NA	No subgrade mineral gerated
3g	Grade of sub-grade mineral generation	NIL	NA	No subgrade mineral gerated
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised	Mechanised.	mineral which was generated below threshold value used for backfilling
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NA	No analysis carried out for the period
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	Drilling carried out as per the requirement
3k	Provision of mining machineries in mineral benches	Yes	Yes	Machinery provided as per the requirement
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 (Ha.)	317.31	317.31	
3n	Ore to OB ratio for the pit/mine during the year	(Mehgaon) Main Pit-1:0.42 Deosari Pit- 1:0.67 1:0.48 (BMG)	Main Pit-1:0.35 Deosari Pit- 1:0.43 1:0.51(BMG)	
3o	Total area put in use under different heads at the end of year	563.18	563.18	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	32.0 lakh Tonnes -Mhg 13.55lakh T(BMG)	23.63 Lakh T-Mhg 13.44 lakh T-Bmg
		2019-20	32.89 lakh T-MHG 14.99 lakh -BMG	26.58 Lakh T-MHG 9.59 lakh T-BMG
		2020-21	30.10 lakh T-MHG 14.99 lakh T-BMG	22.15 Lakh T-MHG 11.59 lakh T-BMG
		2021-22	32.69 Lakh T-MHG 14.92 lakh T-BMG	21.67 lakh T-MHG 12.06 lakh T-BMG
		2022-23	31.88 Lakh T-MHG 14.94 lakh T-BMG	23.46 lakh T-MHG 9.75 lakh T-BMG
3q	General remarks of inspecting officer on method of mining etc.	Provision of drilling blasting is there, total area covered under pits is 317.31 Ha. Production target not achieved so violation letter issued.		

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4. Solid Waste Management-Dumping (FY2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	The top soil will be utilised simultaneously for topping of the backfilled area for plantation	Material below threshold value is being backfilled into Bamangaon and Mehgaon backfilling area & top soil will be utilised simultaneously for topping of the backfilled area	
4b	Location of topsoil, OB & mineral reject dumps	No External Dumps Proposed	No External Dumps	
4c	Number of Dumps within lease area and outside lease area	Not proposed external Dump	Old Dumps are rehabilitated	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps established	12	13	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Nil	2800 m in mehgaon pit. BMG-Nil	
4j	Number of settling ponds	Nil	one	
4k	Specific comments of inspecting officer on waste dump management	Material below threshold value is being backfilled into Bamangaon and Mehgaon backfilling area & top soil will be utilised simultaneously for topping of the backfilled area. During the RY 2800 M retaining wall is constructed in Mehgaon pit		

5. Solid Waste Management-Backfilling (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on 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 mined out area (Rule 32)	Top Soil generated will be used for plantation	Top Soil generated is be used for plantation	
5d	Total area fully reclaimed & rehabilitated (Ha)	1.79 Mhg 0.80 Bmg	1.5-Mhg 0.5 ha-Bmg	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling is carried out on 2.0 Ha area.		

6. Progressive Mine Closure Plan(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule		Yes submitted. Return Submitted	

	23E (2). Details should be given in the format as given in Annexure-20		as per Rule 23E(2)	
6b	Area available for rehabilitation (Ha)	-	-	
6c	Afforestation done (ha)	2 Ha	3.67 Ha-Mhg 2.6 ha-Bmg	
6d	No. of saplings planted during the year	5000 5000	9180-Mhg 6500-BMG	
6e	Cumulative no. of plants	-	259681-MHG 250881-BMG	
6f	Any other specific method of rehabilitation	NA	NA	
6g	Cost incurred on watch & care during the year	Yes	Rs 129650/- MHG Rs 175800/-BMG	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Yes Proposed	2150 saplings carried out old pit backfill area-Mhg, 600 saplings carried out old pit backfill area at BMG	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Yes Proposed	2150 saplings carried out old pit backfill area-Mhg 600 saplings carried out old pit backfill area at BMG	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Yes proposed.	2150 saplings carried out old pit backfill area 600 saplings carried out old pit backfill area at bmg	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	-	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	-	Not applicable	Backfilling is going in the mined out area
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	-	Not applicable	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	-	Not applicable	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	Not applicable	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Ambient Air, Water, Noise, are done in every Quarter .And Ground Vibration	

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			is done for each blast.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	During the RY 15680 Saplings have been planted.		

7. Mineral Conservation(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
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 sort out at mine	NO	NA	
7d	Any beneficiation process at mines	There is no mineral beneficiation plan	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral dispatch is done the lease after crushing operation.		

8. Environment(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	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 dump for restoring the land to its original use	Backfilling in worked out Pits	Backfilling in worked out Pits in Block-I and at Old Pit	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.79 ha-Mhg 0.80 ha-Bmg	1.5 0.50	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	10000	9180-Mhg 6500-Bmg	
8g	Survival rate		90 %	
8h	Water sprinkling on roads to control airborne dust		Water Spraying Done by water Tanker water sprinkler arranged along the haulage road	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	During the RY 15680 saplings planted. Environmental parameters are being regularly monitored.		

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments	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 information furnished in Annual Return.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings-317.31 ha Reclaimed and Rehabilitated-21.10ha Used for waste disposal-7.89ha Occupied by plants and buildings and roads-205.87 ha Used for plantation-32.11 ha Work done under PMCP during the year-0.50 ha		
9d	Scrutiny of Annual return on afforestation	Mahagaon Mines-9180 No survival rate 90% Bamangaon Mines-6500 Nos, survival rate-85%		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM Quantity-Mahagaon Mines- 23.5 Lakh tones ROM Quantity-Bamangaon Mines- 9.8 Lakh tones		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of Production Mahagaon Mines- Rs.347.6/ton Cost of Production Bamangaon Mines- Rs.290.4/ton		
9i	Scrutiny of Annual return on Fixed assets	Value of fixed assets is Rs.441841570/-		
9k	Scrutiny of Annual return on mining Machineries	Bamangaon Mines Machinery information		
		Type of machinery	Capacity	No of Machinery
		Back hoe	2.8 cu.m	2
		Shovel	3.8 cu.m	1
		shovel	2.8 cu.m	1
		Dumper	50 tonne	6
		Dumper	40 tonne	1
		Blast hole drill	115mm dia	1
		Crusher	400 T/H	1
		Conveyor	400 T/H	1
		Explosive van	10.0 tonne	1
		Dozer	320 Hp	1
		Water Tanker	14000 ltr	1
		Pumps (Elect)	200 L/Mn	3
		Pumps (Elect)	120 L/Mn	2
		Mahagaon Mines Machinery information		
		Dozer	316 Hp	2
		Dumper	60 tonne	9
		Shovel	4 cu.m	3
		Blast hole drill	115mm dia	2
		Crusher	800 T/H	1
		Water Tanker	14000 ltr	1
Back hoe	4c cu.m	2		
Generator (diesel)	20 kwh	1		