

**MCDR INSPECTION REPORT 2021-22****1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Shri. R.K. Das DCOM Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Mr. Sanjay Kumar Sharma (Mines Manager & mining Engineer for Medesara Limestone Mines) Mr. Mallishi Kadlimati (Geologist)
3	Date of inspection	23-02-2022
4	Name of the Mine	Medesara Limestone Mines 17.90 Ha
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- Nil Non Forest Land- 17.90 Ha Total Lease area- 17.90 Ha
6	Mine Code	38CHG05003
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18805/2014
8	Name of the lessee, Address, phone, email and fax number	M/s Singhania Minerals Private Limited Address: Paryavas Bhawan, Block No. 1 Jail Road, Arera Hills Road, Bhopal, Madhya Pradesh Mobile no. 9752599824 Phone: 7882285081-83 Fax: 7882282585 Email: sanjaykumar.sharma@acclimited.com
9	Village	Medesara
10	Taluka / Mandal / District	Dhamdha, Durg
11	State	Chhattisgarh
12	Post office & PIN	490036
13	Nearest police station	Medesara
14	Nearest Railway station	Power House Bhilai
15	Date of Grant of Mining Lease	DMG letter No. F/3-4/2001/12 Dated 11/05/2001.
16	Date of Execution	Executed: 19/06/2001 Lease granted for a period 19/06/2001 to 18/06/2031 (30 Years) Supplementary lease agreement made on 21/12/2016 up to 18/06/2051 (20 years) as per MMDR act 2015.
17	Date of opening of Mine	20/09/2016 (opening by ACC Limited)
18	Date of first Renewal, if applicable and its period & expiry	NA
19	Date of second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name: Mr. Rajat Prusty Designation : Chief Manufacturing Officer DOA: 17.06.2021 <a href="mailto:rajatkumar.prusty@acclimited.com">rajatkumar.prusty@acclimited.com</a> Address: 121, Maharshi Karve Road Mumbai - 400 020,

		India, Phone: 02241593507 Fax: 02266317431
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name: Mr. Vaibhav Dixit, Designation: Director Plant DOA:01-07-2018, Address: ACC Jamul Cement Works Bhilai Durg C.G- 490024 <a href="mailto:Vaibhav.dixit@acclimited.com">Vaibhav.dixit@acclimited.com</a> Phone: 7882285081-83 Fax: 7882282585
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Sanjaykumar Sharma, Designation: Manager Mines Qualification: BE Mining, DOA:04.04.2019 Work Experience: 30 Years, Address: ACC Jamul Cement Works, Medesara Mines, Medesara, Dhamdha Durg C.G-490036, Mob: 9752599824 <a href="mailto:Sanjaykumar.sharma@acclimited.com">Sanjaykumar.sharma@acclimited.com</a>

24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Sanjaykumar Sharma, Designation: Mining Engineer Qualification: BE Mining, DOA:04.04.2019 Work Experience: 30+ Years Address: ACC Jamul Cement Works Medesara Mines, Medesara, Dhamdha Durg C.G-490036, Mob: 9752599824 <a href="mailto:Sanjaykumar.sharma@acclimited.com">Sanjaykumar.sharma@acclimited.com</a>
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr. Mallishi Kadlimati, Designation: Geologist Qualification: Msc Applied Geology, DOA:10-09-2018 Work Experience: 10+ years, Address: ACC Jamul Cement Works, Medesara Mines, Medesara, Dhamdha Durg C.G-490036, Mob: 7738626738
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	NA
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	SOM Approval Letter no: Durg/chu.pa/kha yo-1246/2020 Dated:24-11-2020 For the period 2021-22 to 2025-26(5 Years)
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	88000 MT upto 18/06/2051
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	1) Rs. 29,40,000/- vide BG No. 1637617BG0000429 dated 05/11/2020 valid upto 31/03/2026 2) Rs. 19, 60,000/- Enhanced BG submitted to IBM vide letter no. ACC/JML/PQRY/IBM-BG/21/177 dated 13/12/2021

	Total BG amount Rs. 49,00,000/- (Rs. Forty Nine Lakh Only)
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Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

### **1.0 Exploration**

SN	Item	Proposals	Actual work	Remarks
1a	Back log of previous year	<b>F.Y. 2016-17:</b> 14 nos. Boreholes proposed with cumulative meterage 420.0 m	<b>F.Y. 2016-17:</b> Nil <b>F.Y. 2017-18:</b> 14 nos. Borehole carried out with cumulative meterage of 650.0m	
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category:17.90 Ha	Under G1 Category: 17.90Ha	Entire lease area is explored under G1.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	NA
1e	Balance reserves as on 01.04.2021 (in Million Tonnes)	Under (111): 8.10 Mio.T Under (221): 4.39 Mio.T	Under (111):8.10 Mio.T Under (221): 4.39 Mio.T	
1f	General remarks of inspecting officer on geology, exploration etc.	Litho units present in the area were limestone, shale and dolomite. Geologically the area comes under Chandi Limestone, Raipur Group. The deposit is dipping about 2 degree towards north west. The lease area is broadly explored in G1 category.		

### **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	Development: 2364240N 539701E & 2363940S 539508W	Development: 2363975N -539532E & 2363940S-539508W	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Top Soil: Nil OB/IB: 01 Ore/Mineral:02	Top Soil: Nil OB/IB: 01 Ore/Mineral:01	Top soil is a very thin layer. OB is associated with Limestone boulder.
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.41	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	7752	853.75	

2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Low production and development, operations affected due to Covid-19
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### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	87813MT	2053.24MT	Less production affected due to Covid19, mines operated for 5 days in F.Y 2020-21
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject 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	NA	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes Wagon Drill, Dia:100mm Spacing:2.5, Burden: 3.5 Depth:6-7	Yes, Dia:115mm, Spacing:2.5 Burden: 3.5, Depth:6-7	
3k	Provision of mining machineries in mineral benches	Backhoe-01 Loader-01 Water Tanker-01 Rock Drill-01 Tipper-09	Backhoe-01 Loader-01 Water Tanker-01 Rock Drill-01 Tippers-09	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes OB/Top Soil- 2m Mineral: 6m	Yes OB/Top Soil- 2m Mineral: 6m	Top Soil is scraped with loader
3m	Total area covered under excavation/pits	6.59 Ha up to end of plan period.	5.84 Ha up to end of F.Y. 2020-21.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.08	1:0.41	
3o	Total area put in use under different heads at the end of year	Pit-6.59 Ha OB/bund-0.87 Ha	Pit-5.84 Ha OB/bund-0.35 Ha	

		Other- 1.29 Ha up to end of plan period.	Other- 0.4Ha Plantation; 0.622 up to end of F.Y. 2020-21	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2016-17: 87401 MT Yr- 2017-18: 87400 MT Yr- 2018-19: 87638 MT Yr-2019-20: 87635 MT Yr-2020-21:87813 MT	<b>Yr- 2016-17:</b> 33 MT <b>Yr- 2017-18:</b> 87264MT <b>Yr- 2018-19:</b> 87355 MT <b>Yr-2019-20:</b> 87575MT <b>Yr-2020-21:</b> 2053.24 MT	
3q	General remarks of inspecting officer on method of mining etc.	Low production and development, operations affected due to Covid-19.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	To be utilized for making bund & backfilling subsequently plantation.	Is being done	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	NA	NA	
4c	Number of dumps within lease area and outside lease area	NA	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	NA	NA	
4e	Number of active & alive dumps	-	-	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer waste dump management	The waste generation is negligible in 2020-21 as mine worked only 5 days due to Covid-19.		

#### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NA	NA	
5b	Area under backfilling of mined out area	Backfilling proposed between Pillar no.23 to 25 and pillar 31-34	Back between pillar no. 23-25 within 7.5m safety zone not done	Violation pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Except the backfilling proposed in 7.5 m safety barrier zone no such backfilling is proposed.		

**6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Submitted for F.Y. 2020-21	Submitted in time in the prescribed format	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	NA	NA	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i. Not Proposed ii. Not Proposed iii. Not Proposed iv. Not Proposed	i. Not applicable ii. Not applicable iii. Not applicable iv. Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1) Proposed along the safety barrier of 7.5m-600 nos. 2) Nil for plan period 3) Not Proposed	1) 1200 2) 0.31Ha 3) By Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Ambient air, water quality and noise vibrations.	Being done as per proposal.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The PMCP work broadly done as per proposal.		

**7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch from proposed benches	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	

7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ROM is directly dispatch to plant.		

### 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Meagre quantity of Top soil generated during the plan period shall be utilized for plantation purpose.	Negligible qty of topsoil has been generated and the same has been utilised for plantation.	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	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 & additional plantation done (Rule 44)	Baseline plantation 2200no and for FY 2020-21---600nos.	Total plantation upto 2020-21 is 2837 nos.	
8g	Survival rate	85%	85%	
8h	Water sprinkling on roads to control airborne dust	Yes	yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	As the mine working is on low scale and the lessee is taking care of all environmental preventive measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto –Jan 2022 A.R. submitted upto- 2020-21	

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Mines manager</b> Shri. Sanjay Sharma, <b>Mining Engineer:</b> Shri. Sanjay Sharma, <b>Geologist:</b> Shri Mallishi Kadlimati,	<b>Mines manager</b> Shri. Sanjay Sharma, <b>Mining Engineer:</b> Shri. Sanjay Sharma, <b>Geologist:</b> Shri Mallishi Kadlimati,	

		Geologist.	Geologist.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 6.59Ha Waste/OB :0.87Ha Other: 1.29 Ha Upto F.Y. 2020-21.	Pit: 5.84Ha Waste/OB :0.35Ha Other: 0.4 Ha Plantation:0.622Ha upto F.Y. 2020-21.	
9d	Scrutiny of Annual return on Afforestation	WML area 1200nos.	Broadly as given in returns.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production & Ex-mine price is Rs.2494.05/mt	Cost of production and Ex-Mine price is on very higher side.	
9i	Scrutiny of Annual return on fixed assets	Fixed asset under Capital structure (Part II A)- Rs.1813951/-	Fixed asset under Capital structure (Part II A)- Rs. 1813951/-	Fixed asset is common for SMPL 17.90 ha & 8.80 ha
9k	Scrutiny of Annual return on mining machineries	Given		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

Date of Last Inspection, Name and Designation of the Inspecting Officer:

**Date of Inspection:** 15/10/2020

**Name & Designation of inspecting officer**

S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur

Details of the Violations Pointed-out during Inspections: No violation pointed out but earlier violation related to backfilling not taken complied and incorporated in review of mining plan as mine is temporarily discontinuous.

Therefore during present inspection it was observed the proposal of backfilling is partially complied therefore Rule 11(1) & 45(5) found violated.

(Rajesh Kumar Das, Deputy Controller of Mines)