

MCDR INSPECTION REPORT 2021-22

General

S N	Particulars	Details
	File no	CHG/DRG/LST-41/RPR
1	Name of the Mine	Medesara Limestone Mines
2	Date of Inspection	02.09.2022
3	Name of Inspecting Officer	Prasant Kumar Sahu, Assistant Mining Engineer
4	Name of official accompanying inspection	Mr. Sanjay Kumar Sharma (Mines Manager cum Mining Engineer) Mr. Mallishi Kadlimati (Geologist)
5	Last date of Inspection & Officer	23/02/2022 and Shri R. K. Das, DCOM
6	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
7	Mine code	38CHG05003
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18805/2014
9	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
10	Village	Medesara
11	Taluka/Mandal	Dhamdha
12	District	Durg
13	Pin code	490036
14	State	Chhattisgarh
15	Post office	Medesara
16	Nearest police station	Nandini
17	Nearest Railway station	Power House Bhilai
18	Date of Grant of Mining Lease	DMG letter No. F/3-4/2001/12 Dated 11/05/2001.
19	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.
20	Weekly day of rest	Sunday
21	Date of opening of Mine	20/09/2016 (opening by ACC Limited)
22	Date of first Renewal, if applicable and its period & expiry	NA
23	Date of second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name: Mr. Rajat Prusty Designation : Chief Manufacturing Officer DOA: 15.07.2019, rajatkumar.prusty@acclimited.com , Address: 121, Maharshi Karve Road Mumbai - 400 020, India

		Phone: 02241593507 Fax: 02266317431
26	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 Vaibhav.dixit@acclimited.com Phone: 7882285081-83 Fax: 7882282585
27	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Sanjay kumar Sharma Designation: Manager Mines Qualification: BE Mining DOA: 04.06.2019 Work Experience: 30 Years Address: ACC Jamul Cement Works Medesara Mines, Medesara, Dhamdha Durg C.G-490036 Mob: 9752599824 Sanjaykumar.sharma@acclimited.com
28	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Sanjay Kumar Sharma Designation: Mining Engineer Qualification: BE Mining DOA: 28.09.2019 Work Experience: 30+ Years Address: ACC Jamul Cement Works Medesara Mines, Medesara, Dhamdha Durg C.G-490036 Mob: 7471116120 Sanjaykumar.sharma@acclimited.com 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 Mallishi.kadlimati@acclimited.com
29	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
30	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification of Approved mining Plan vide letter DURG/LST/MPLN -751/NGP/2016/24 dated 15.07.2016 Proposal period 2016-2017 to 2020-21. Modification of Approved mining Plan vide letter DURG/LST/MPLN-1180/ 2018/Raipur dated 11.12.2018 Proposal period 2019-20 to 2020-21.
31	Date of Approval of Review of Mining Plan/Modified Review of Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. DURG/LST/MPLN-1246/ 2020/Raipur dated 24/11/2020. Proposal period 2021-22 to 2025-26.
32	Mineral(s) granted in lease and proved for mining	Limestone

33	Method of Mining(Open cast, Underground)	Open cast
34	Category (Fully Mechanised, Others or Manual)	Category-A, Fully Mechanized
35	Captive/Non Captive	Captive
36	Present EC Status	88000 Tonnes dated 23/09/2010
37	Status of Financial Assurance	1)Rs. 29,40,000/- vide BG No. 1637617BG0000429 dated 05/11/2020 valid up to 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 valid up to 31/03/2026

Scientific Mining: Compliance of proposals of approved mining plan/Review of mining.

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1: 17.90 Ha	The potential mineralised area of 17.90 ha (entire lease area) explored under G1 through three (14) vertical boreholes of total meterage of 650 meter in 100x100 grid interval.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Not applicable	
1e	Balance reserves as on 01.04.2022	Under (111): 8.12 Million Tonnes Under (211): 4.39 Million Tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	The potential mineralised area of 17.90 ha (entire lease area) explored under G1 through three (14) vertical boreholes of total meterage of 650 meter in 100x100 grid interval.		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N-2364300 to N-2363900, E-539600 to E-539700	N-2364300 to N-2363900, E-539600 to E-539700	As per proposal. Development was carried out within the proposed grids.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top Soil: Nil OB/IB: 01 Ore/Mineral: 02	Top Soil: Nil OB/IB: 01 Ore/Mineral: 02	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.13	
2d	Quantity of topsoil generation in m ³	No proposal	Nil	
2e	Quantity of overburden/waste generation in m ³	5924.0 tonne	12706 tonne	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The actual development was carried out with in the proposed grids.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 pit proposed	Actual working was carried out in 1 pit	As per proposal
3b	Quantity of Limestone production proposed	87850 MT	65052 MT	Actual production is within the proposed limit.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Blasted material directly fed to the consuming plant
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	No such study carried out	Not required for limestone mineral
3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting made in mineral benches	Drilling & blasting is carried out in the mineral benches	Drill machine-INDUS 115 mm dia, Explosive used- Slurry explosive used for blasting
3k	Provision of mining machineries in mineral benches	Excavator and tipper combination proposed	Mining is done using Excavator and tipper combination	One excavator & 03 dumpers were observed in operation on the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral bench-07 meter, OB bench-03 meter	Average bench height and width maintained	
3m	Total area covered under excavation/pits	7.64 Ha up to the end of plan period 2025-26.	6.21 Ha upto plan period 2021-22	

3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.13	
3o	Total area put in use under different heads at the end of year	Pit-7.64 Ha Waste Dump-0.64 Ha Road- 0.25 ha, Infra: 0.15 Ha Mineral storage: 0.50 Ha, Others(green belt bund) - 0.62 Ha up to 2025-26	Pit- 6.210 Ha Waste-0.64 Ha Road/infra: 0.76 Ha Other (MS): 0.5 Ha PMCP-Greenbelt-0.79 Ha along 7.5 m safety bund up to 21-2022	Workings within proposed area
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 87400 MT 2018-19: 87638 MT 2019-20: 87635 MT 2020-21: 87813 MT 2021-22: 87850 MT	2017-18: 87264 MT 2018-19: 87355 MT 2019-20: 87575 MT 2020-21: 2053 MT 2021-22: 65052 MT	Actual production is within the proposed quantity .All units in MT
3q	General remarks of inspecting officer on method of mining etc.	A single quarry has been developed as proposed. Production is carried out using deployment of HEMM with the help of drilling & blasting.		

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposed for backfilling and bund making	OB generated during the year was utilized for backfilling and bund making along the lease boundary	Done as proposed
4b	Location of topsoil, OB & mineral reject dumps	Along 7.5 m of non-mining zone	Done as proposed	
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of active & alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilised	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	The over burden generated during the year was utilized for backfilling and bund making along the lease boundary.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling proposed after full extraction of mineral	Backfilling carried out after full extraction of mineral	
5b	Area under backfilling of mined out area	0.06 Ha	0.09 Ha	

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The actual backfilling area is on higher side in comparison to proposal for the compliance of the earlier violation issued vide this office letter of even no. dated 02.03.2022.		

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	To be submitted before 01st July every year	PMCP report received in time	Annual return submitted on 30.06.2022.
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	No proposal	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L * B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	1) 60X10X7 2) Nil 3) Nil 4) Nil 5) Nil	1) 90X10X7 2) Nil 3) Nil 4) Nil 5) Nil	The actual backfilling area is on higher side in comparison to proposal for the compliance of the earlier violation issued vide this office letter of even no. dated 02.03.2022.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out as per the proposal	All values of environment monitoring are within permissible limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out the PMCP activities as per the proposal. Monitoring of environmental parameters was done regularly.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to their captive plant	Blasted dispatched to their captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	Not required
7d	Any beneficiation process at mines	No proposal	Nil	Not required
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process proposed within lease area and the total ROM was dispatched directly to the consumer.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Negligible quantity of topsoil was generated and the same has been utilized for plantation.	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200 nos. saplings proposed	200 nos. saplings planted	3037 no. cumulative plantation up to 31/03/2022
8g	Survival rate	Not specified	89%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Continuous water sprinkling done on haul roads by water tankers.	Done as proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beauty in & around the mine area was good as the lessee had carried environmental protection measures as per the proposal.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within times -Yes M.R. Submitted upto – July 2022 A.R. submitted upto -- 2021-22		AR submitted on 21/06/2022
S.N.	Item	Details Given in AR.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines manager Shri. Sanjay Sharma, Mining Engineer: Shri. Sanjay Sharma,, Geologist: Shri Mallishi Kadlimati, Geologist.	Same mine officials were present during the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 7.64 Ha Infra & roads: 0.40 Ha Other(MS): 0.5 Ha Bund: 0.64 Work done under PMCP(green belt)-0.62 Ha	Pit: 6.21 Ha Infra & roads: 0.76 Ha Other(MS): 0.5 Ha Bund: 0.64 Work done under PMCP (green belt)-0.79 Ha	Appears to be correct
9d	Scrutiny of Annual return on afforestation	WML- 200 saplings @ 89% survival rate	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral rejects reported.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock- Nil, Production- 65052.480 tons, closing stock- Nil	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price & cost of production- Rs 243.01/Ton Sale Value: Nil	Limestone form the mine is used for captive consumption in cement plant	
9i	Scrutiny of Annual return on fixed assets	Fixed assets –Rs. 40,02,605/- including capitalised Expenditure such as pre-production exploration, development, major overhaul and repair to machinery etc.	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Back hoe - 03, dumper - 25, wheel loader (3 cum)-01, blast hole drill (115 mm)- 02, water tanker (9000 lit) -01	Appears to be correct.	

10- (a) Compliance position of earlier violation pointed out: - No serious violations have been observed during inspection. No outstanding violation.

Date-17.10.2022

Prasant Kumar Sahu,
Assistant Mining Engineer