

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Rajesh Kumar Das, Sr. ACOM, Indian Bureau of Mines, Raipur
2	Date of inspection	14/03/2022
3	Name of the Mine	Medesara Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area – 12.85 Ha. (Non-forest land)
5	Mine Code	38CHG05020
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/15814/2013
7	Name of the lessee, Address, phone, email and fax number	M/s K.B. Lal Shrivastava & Son (HUF) Address- G-4, Adarsh Nagar, At & P.O. – Durg, District – Durg (C.G.) Mob. No.- 98271-67911 Email – sanjayshrivastava74@gmail.com
8	Village	Medesara
8	Taluka/Mandal/ District	Dhamdha / Durg
10	State	Chhattisgarh
11	Post office & PIN	491036
12	Nearest police station	Nandani Nager
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	09/11/2011
15	Date of Execution	03/10/2011
16	Date of opening of Mine	03/04/2013
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sanjay Shrivastava Address- G-4, Adarsh Nagar, At & P.O. – Durg, District – Durg (C.G.) Mob. No.- 98271-67911 Email – sanjayshrivastava74@gmail.com Date of appointment – 05/09/2017
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Name- Swarn Kumar Bandhe Address- HIG-1/22, Borsi Colony, Durg 491001 Mob.- 9827946455 Date of appointment –25/02/2014

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name - Swarn Kumar Bandhe Qualification – B.E. Experience – Ten year Address – HIG-1/22, Borsi Colony, Durg 491001 Mob. –9827946455 Date of appointment –25/07/2014
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Yes, as per rule followed by Geologist and Mining Engineer
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan- 17/02/2011 For Period – 2011-12 to 2015-16 Specific condition:- General condition no. 1 to 15 points has been given in approval letter.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Date of Approval of Review of Mining Plan- 12/07/2016 For Period – 2016-17 to 2020-21 Specific condition:- General condition no. 1 to 7 points has been given in approval letter.
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast Mining under 'A' Category (Other), Mechanised method
29	Category (Fully Mechanised, Others or Manual)	A' Category (Other),
30	Captive/Non Captive	Non Captive
31	Existing EC Limit and validity	1,50,000 Tone/Year (Saleable), Validity – Upto 02/10/2061
32	Status of Financial Assurance as per rule 27 of MCDR, 2017	FA amount submitted as per rule and Validity – Upto 31/03/2026

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year			
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: Ha Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised: Ha	Under G1 Category: Ha Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised: Ha	Not proposed during period 2016-17 to 2020-21

1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category: Ha Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised: Ha	Under G1 Category: 12.85Ha Under G2 category: Ha Under G3 category: Ha Under G4 Category: Ha Non- Mineralised: Ha	No balance area to be explored
1e	Balance reserves as on 01.04.2021 (in Million Tonnes)	Under (111): Million Tonnes Under (121): 8.883 Million Tonnes Under (122): Million Tonnes Under (211): Million Tonnes Under (221): Million Tonnes Under (222): Million Tonnes Under (331): Million Tonnes Under (332): Million Tonnes Under (333): Million Tonnes Under (334): Million Tonnes	Under (111): Million Tonnes Under (121): 8.5979 Million Tonnes Under (122): Million Tonnes Under (211): Million Tonnes Under (221): Million Tonnes Under (222): Million Tonnes Under (331): Million Tonnes Under (332): Million Tonnes Under (333): Million Tonnes Under (334): Million Tonnes	Mine out reserves = 0.2851 Million Tone (Year-2016-17 to 2020-21)
1f	General remarks of inspecting officer on geology, exploration etc.	No		

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)	South part of lease area	South part of lease area	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Top soil – Nil Mineral -3.0M.	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.36	

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	6666.67	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 pit	1 pit	
3b	Quantity of ROM mineral production proposed	158173.12 T	27050 T	
3c	Recovery of salable/usable mineral from ROM production	142355.81 T	27050 T	
3d	Quantity of mineral reject generation	15817.31 T	Nil	5% mining losses
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	Semi-mechanised	Semi-mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Drilling& Blasting	As per proposal	
3k	Provision of mining machineries in mineral benches	Hyundai 210 (back hoe loader)	Hyundai 210 (back hoe loader)	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of Mineral – 3.0M.	Bench height of Mineral – 3.0M.	
3m	Total area covered under excavation/pits	11.494 Ha	9.828 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.00	1: 0.36	
3o	Total area put in use under different heads at the end of year	Pit-11.494 Ha Waste -0.111Ha Soil – 1.159Ha	Pit –9.828 Ha Waste– Nil Soil – 0.983 ha	

3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Year- 2016-17: 153129.85T Year- 2017-18: 150379.80T Year- 2018-19: 150203.70MT Year- 2019-20: 161502.62T Year- 2020-21: 158173.12T	Year- 2016-17: 103500T Year- 2017-18: 70000T Year- 2018-19: 63000T Year- 2019-20: 21550 T Year- 2020-21: 27050 T	
3q	General remarks of inspecting officer on method of mining etc.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Not proposed	Nil	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Not proposed	Nil	
4c	Number of dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Not proposed	Nil	
4e	Number of active & alive dumps	Not proposed	Nil	
4f	Number of dead dumps	Not proposed	Soil dump (SD1-SD5) in safety zone	
4g	Number of dumps stabilised	Not proposed	5 (soil)	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer			

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	S-W corner	Nil	Not carried out, because not excavation in S-W corner as per proposal
5b	Area under backfilling of mined out area	0.050	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Not proposed	NA	
5d	Total area fully reclaimed & rehabilitated	Not proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc			

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.	Proposed	Annual report on PMCP has been attached with this report	
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	i) Nil ii) 0.040 iii) 50nos. iv) 250nos. v) Nil vi) 12500/-	i) Nil ii) 0.040 iii) 200nos. iv) 10250nos. v) Nil vi) 14000/-	
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) Nil ii) 30x17x3-12 iii) Nil iv) Nil v) Nil	i) Nil ii) Nil iii) Nil iv) Nil v) Nil	Not carried out, because not excavation in S-W corner as per proposal
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Proposed ii) 0.050 iii) rehabilitation by Afforestation	i) Nil ii) Nil iii) Nil	Not carried out, because not excavation in S-W corner as per proposal

6e	Compliance of Environmental monitoring (core zone & buffer zone)	Env. Monitoring was proposed	Environment monitoring report has been attached with this report	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	158173.12 T	27050 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	NA	
7c	Different grade of mineral sorted out at mines	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Not Proposed	Used for plantation purpose	
8b	Concurrent use or storage of topsoil	Not Proposed	Within lease area (7.5M)	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps	Done as per rule	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling	Nil	Not carried out, because not excavation in S-W corner as per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	50nos	Within lease - 150nos, Outside-50nos.	Approx. 73% Survival
8g	Survival rate	50%	Approx. 73% Survival	

8h	Water sprinkling on roads to control airborne dust	Proposed	Done as per proposal	Attached with report
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are			

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	Monthly Return is Submitted up to- Feb 2022 Annual Return is submitted up to- 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			
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

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:

Details of the Violations Pointed-out during Inspections:

(Name of the Inspecting Officer and Designation and Date)