

### MCDR Report

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri Sanjay Srivastava, Mine Agent
4) Date of Inspection	22/02/2023
5) Date of Previous Inspection	14/03/2022

### GENERAL INFORMATION

Sl.No	Particulars	Details
1	Name of the Mine	Medesara Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area – 12.85 Ha. (Non-forest land)
3	Minecode	38CHG05020
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/15814/2013
5	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
6	Village	Medesara
7	Taluka/Mandal	Dhamdha
8	District	Durg
9	Pin code	491036
10	State	Chhattisgarh
11	Post office	Nandani Nager
12	Nearest police station	Nandani Nager
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	03/10/2011
15	Date of Execution	09/11/2011
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	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name- Deepak Kumar Sahu Address- HIG-1/22, Borsi Colony, Durg 491001 Mob No-8817092442 Date of appointment –01/06/2020
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
26	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 Review of Mining Plan dated 23.11.2020 For Period – 2021-22 to 2025-26
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	-
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)	“A” Category-Fully Mechanised
31	Captive/Non Captive	Non Captive

**SCIENTIFIC MINING**

*[Data in respect of financial year (2021-22) or cumulative, as applicable]*

Sl. No	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
<b>A. EXPLORATION:-</b>				
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2021-22	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Phase wise exploration was carried out by different agencies in the past
1d	Balance area to be explored to bring Geological axis 1 or 2	-	-	1.71 Ha.(G2) balance area will be explored under G1 category during this plan period in 2025-26.
1e	Balance reserves as on 01/04/2022	Under (111): 3.849 Million Tonnes Under (122):0.361 Million Tonnes Under (211):6.874 Million Tonnes Under (222):0.976 Million Tonnes		As per RMP dated 23.11.2020.
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2021-22. 03 no. of bore holes are proposed in the FY 2025-26 to cover the entire area in G1.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>B. DEVELOPMENT:-</b>				
2a	Location of development w.r.t. lease area	Development proposed in one pit (01) as shown in production and development plan E 538980.85– E 539226.79  N 2365014.06- N 2365143.28	Development carried out within the proposed area	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral.	Overburden - 3 m Mineral -6 m

2c	Stripping ratio or ore to OB ratio	1 : 0.02	1 : 2.07	Tonne:Cum
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	3158 m3	8000 m3 (20000 Tonne)	Violations issued in this regards
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Production & development was carried out within the proposed grids as per the approved plans.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>C. EXPLOITATION:-</b>				
3a	Number of Pit Proposed for Production	01	01	
3b	Quantity of ROM mineral production proposed	150000 Ton	3850 Ton	Less production reported due to lack of market demand
3c	Recovery of Sailable/ Usable Mineral from ROM Production	95 %	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	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	No such study carried	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Drilling and blasting is carried out in mineral benches as proposed.	Spacing: 3.0 mtrs. Burden: 2.0/4mtrs. Depth: 3.0 mtrs. Dia. : 100 mm

3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 6 meter in limestone and 3 meter in overburden	Bench height and width have been maintained as per proposal	
3m	Total area covered under excavation/pits	9.828 Ha up to end of RMP period 2025-26	About 9.8 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.02	1 : 2.07	Tonne:Cum
3o	Total area put in use under different heads at the end of year	Total put to use-11.373 Ha. up to 2025-26	About 11.30 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Year- 2017-18: <b>150379.80T</b> Year- 2018-19: <b>150203.70MT</b> Year- 2019-20: <b>161502.62T</b> Year- 2020-21: <b>158173.12T</b> Year- 2021-22: <b>150000 T</b>	Year- 2017-18: <b>70000T</b> Year- 2018-19: <b>63000T</b> Year- 2019-20: <b>21550 T</b> Year- 2020-21: <b>27050 T</b> Year- 2021-22: <b>3850 T</b>	(All units in Tonne) As per AR submitted and as mentioned in RMP approved dated 23.11.2020
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of drilling & blasting. Less production reportedly due to lack of market demand.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b>				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	No proposal	Nil	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	No proposal	Nil	
4c	Number of Dumps within Lease & Outside Lease area	01	01	Within lease area
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Proposed within Ultimate pit limit	Within UPL	Temporary waste dump
4e	Number of Active & Alive Dumps	01	01	
4f	No of Dead Dumps	-	NIL	
4g	No of Dumps established	-	Nil	
4h	Whether Retaining Wall or Garland drain	No proposal	Nil	

	along Dumps are there			
4i	Length of Retaining Wall or Garland drain along Dumps	No proposal	Nil	
4j	No. of Settling tanks	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Waste/OB not observed carried out at earmarked place, violation issued in this regards.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>E. SOLID WASTE MANAGEMENT - BACKFILLING:-</b>				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area is mined out fully for backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral has not been exhausted fully & thus no proposal given for backfilling.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b>				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted before 01st July every year	PMCP report has not been received in time	Violation of Rule 26 (2) of MCDR,2017 issued
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	i) No Proposal ii) 0.01 Ha. iii) 25 Nos	i) Nil ii) About 0.01 Ha iii) 50 Nos	As per Annual Return

	plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	iv)- v) No Proposal vi)-	iv)- v) Nil vi)-	
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	No Proposal	Nil	
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. However, the annual return under Rule 26(2) was not submitted for violation issued.		

Sl. No	Item	Proposals	Actual Work	Remarks
<b>G. MINERAL CONSERVATION:-</b>				
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch	ROM being dispatched	
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	
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Not required for limestone

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process proposed within lease area and ROM dispatched.
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Sl. No	Item	Proposals	Actual Work	Remarks
<b>H. ENVIRONMENT:-</b>				
8a	Separate removal and utilization of topsoil	No proposal	Nil	Topsoil was not encountered at this stage and working was in the ore zone only
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects is proposed	Separate dumps are maintained	
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	Plantation Proposed : WML: 25 saplings in 2021-22	Within lease area-50 nos. saplings	As per the AR 2021-22
8g	Survival rate	Not specified	80%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given for water sprinkling on roads through water tanker	Water sprinkling being done on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good as the lessee had carried out afforestation & environmental protection measures as per the proposal.		



Sl. No	Item	Comments		Remarks
<b>COMPLIANCE OF RULE-45</b>				
9a	Status of Submission of Monthly & Annual Returns	MR being regularly submitted AR Submitted up to 2021-22		
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-S. K. Bandhe Mining Engg.- S. K. Bandhe Geologist- Deepak Kumar Sahu	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	11.4 Ha	About 11.4 Ha	
9d	Scrutiny of Annual return on afforestation	Within lease area: 50 @ 80% survival rate	Within lease area: 50 @ 80% survival rate	
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	ROM: Opening stock- Nil, Production-3850.00 tonnes Closing stock- Nil	ROM: Opening stock- Nil, Production-3850.00 tonnes Closing stock- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price-437.75	Ex mine price-437.75	
9i	Scrutiny of Annual return on fixed assets	Rs. 8944227 including land, machinery & building	Rs. 8944227 including land, machinery & building	
9k	Scrutiny of Annual return on mining machineries	Back Hoe-01, Dumper/Tipper-02, Drill Machine-03, Water tanker-02,	Deployed	

10. Details of violations observed during inspection: - Violation of Rule 11(1) of MCDR 2017 has been pointed out after current inspection.

Date: - .06.2023

प्रेम प्रकाश / Prem Prakash  
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines  
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