

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Borli Durga Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area: 4.44 Hect.(55-11 Bigha) Forest area: Nil Non-Forest- 4.44 Hectare
3	Date of Inspection	08.01.2025
4	Date of previous Inspection	16.12.2023
5	Mine code	38HPR10010
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/12351/2012
7	Name of the lessee, Address, phone, email and fax number	Shri Mrigendra Singh S/o Shri Maj,R.H. Singh R/O-Village:Lane Mashoor, Tehsil-Renukaji District-Sirmour-173022 (HP) Phone: 9897094396 Email: guptaassociates009@gmail.com
8	Village	Borli
9	Taluka/Mandal	Renukaji
10	District	Sirmour
11	Pin code	173022
12	State	Himachal Pradesh
13	Post office	-
14	Nearest police station	Paonta Sahib
15	Nearest Railway station	Dehradun
16	Date of Grant of Mining Lease	30.04.1984
17	Date of Execution	20.04.1984
18	Date of opening of Mine	30.04.1984
19	Date of first Renewal, if applicable and its period & expiry	19.04.2004 Period: 20 yrs.(Year w.e.f 19.04.2004 to 19.04.2034)
20	Date of second Renewal, if applicable and its period & expiry	NA
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Mrigendra Singh S/o Shri Maj,R.H. Singh R/O-Village:Lane Mashoor,

		Tehsil-Renukaji District-Sirmour-173022 (HP) Phone: 9897094396 Email: guptaassociates009@gmail.com
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Ravindar Yadav Village & Post- Satun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173022 Phone: 9816768232
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Ravindar Yadav Village & Post- Satun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173022 Phone: 9816768232
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Lala Sanjeev Prasad(Geologist) Yes, Shri Ravindar Yadav
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review and Updation of Mining Plan with PMCP was approved vide letter no. 614(2)//M76-DDN dated. 14.09.2021 over an area of 4.44 ha with Proposal 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
31	Captive/Non Captive	Non-Captive

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

Exploration

SN	Item	Proposals (2023-24)	Actual work(2023-24)	Remarks
1a	Backlog of previous year	Not proposed	Not applicable	
1b	Exploration over lease area	1 borehole is proposed	Borehole is done as	1 borehole of 20 m

	for Geological axis 1 or 2.	for 20m depth	per proposal	was drilled in 2022-23 and the other one was drilled in 2023-24. Borehole would be done in future to bring the area in G1 category.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lease itself	Lease itself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area Under G1- 1.532 hectare Area under G2 – 0.90 hectare Area under G3 – 2.012 hectare Total=4.44 hectare	Not upgraded to G1	An area of 0.90 hectare is currently classified under the G2 category, and 2.012 hectares fall under the G3 category. In order to bring the entire lease area under the G1 category, instructions have been given to the lessee to carry out the necessary exploration activities in future. These activities should include drilling, geological mapping, sampling, and other related studies to generate high-confidence geological data. The completion of this exploration work will facilitate accurate resource estimation and support future mine planning and development.
1e	Balance reserves as on 01.04.2021.	As on 01.04.2023 Reserves-1,150,329	As on 31.04.2024 Reserves-1,146,208	Depletion of reserves

		tonnes Resources- 6,924,101tonnes Total- 8,074,430tonnes	tonnes Resources- 6,924,101tonnes Total- 8,070,309 tonnes	during the year=4121
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration must be conducted to accurately define the boundaries of the ore body, ensuring a clear understanding of its size, shape, and location. This involves detailed geological surveys and mapping to delineate the ore body's extent. Additionally, an in-depth analysis of the ore's quality and quantity is essential. The exploration process helps assess whether the ore body is economically feasible to mine, guiding decisions related to resource development and extraction strategies.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work(2023-24)	Remarks
2a	Location of development w.r.t. lease area	Development of 5m benches was proposed at Pit- I- from 1880 mRL to 1875 mR and Pit- II from 1795 mRL to 1790 mRL and Pit- III from 1690 mRL to 1685 mRL	Development work has not been carried out as per proposal.	Bench management is poor
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not proposed	Not applicable.	
2c	Stripping ratio or ore to OB ratio	-	Mining operation is in mineralised land at present.	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	781 cubic meter	0 cubic meter waste has been generated in the year 2023-24 as per submitted annual return	During inspection waste material has been observed in the ML area.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development work was carried out at proposed place but height of the benches observed more than proposal as per approved mining plan. Violation of rule 11(1) is pointed out.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	As per proposal, 3(Three) pits were proposed for production	Observed as per proposal	
3b	Quantity of mineral production proposed (Limestone)	ROM proposed during 2023-24 is 37050 tonne	ROM generated during 2023-24 is 4121 tonnes.	Production of ROM is very less
3c	Recovery of saleable/usable mineral from ROM production	95% recovery from ROM	ROM is saleable in the market.	
3d	Quantity of mineral reject generation	No proposals is incorporated	No significant mineral reject in this mine is being generated.	
3e	Grade of mineral reject generation and threshold value declared	Not applicable	Not applicable	
3f	Quantity of sub-grade mineral generation	Not Applicable	Not Applicable	
3g	Grade of sub-grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals are incorporated	No segregating is done within the mines.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Applicable	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Drilling operation proposed by Jack hammer drill of 32 mm dia holes and blasting by slurry explosive with 5 metre high bench.	As per proposal.	
3k	Provision of mining machineries in mineral benches	Compressor, excavator, tippers	As per proposal.	
3l	Whether height of benches in overburden and mineral suitable for method of	Benches with 5m height in mineral	Suitable with 5m height but height of the benches found more	

	mining proposed in MP/SOM		than the proposal	
3m	Total area covered under excavation/pits	0.957 h during plan period.	as per the proposals	
3n	Ore to OB ratio for the pit/mine during the year	-	-	
3o	Total area put in use under different heads at the end of year	At the end of the plan period Mining pits=1.388h Waste dumps=0.371h Road=0.235h Others(PMCP)=0.071h	at the end of year Mining pits=0.957h Waste dumps=0.332h Road=0.235h Others(PMCP)=0.245h	As per annual return
3p	Production of Limestone & Shale during last five-year period, as applicable	2019-20=34200 T 2020-21=37050 T 2021-22=37050 T 2022-23=37050 T 2023-24=37050 T	2019-20=10943 T 2020-21=12306 T 2021-22=11399 T 2022-23=16440 T 2023-24=4121 T	
3q	General remarks of inspecting officer on method of mining etc.	In this mine the open cast mining method is in the operation. Appropriate corrective measures, such as height of the benches need to be reduced or sub-benches may be required to construct according to the approved mining plan and ensure safe working conditions.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	1950 T Waste Were proposed in Pit-I,II and Pit-III	0 T waste has been generated in the year 2023-24 as per submitted annual return	During inspection waste material has been observed in the ML area.
4b	Location of topsoil, OB & mineral reject dumps	In Pit-1 & Pit-2, the waste shall be dumped towards slope of working pit over non mining zone and Pit-III waste shall be dumped towards slope side.	0 cubic meter waste has been generated in the year 2023-24 as per submitted annual return	During inspection waste material has been observed in the ML area.
4c	Number of dumps within lease area and outside lease area	2 active dump 1 inactive dump	During inspection waste material has been observed in	Instructions have been given to carry out plantation over the

			the ML area.	inactive dump and to construct retaining wall/parapet wall along its entire length.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per proposals dumping was proposed towards non mining zone and slope side.	No new dump is developed in 2023-24	During inspection waste material has been observed in the ML area.
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	None	None	
4g	Number of dumps stabilised	Not Applicable	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed retaining wall	As per proposal	
4i	Length of Retaining wall or garland drain all along dump	retaining wall=44m	As per proposal	Instructions have been given to construct retaining wall/parapet wall all along the dump.
4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting officer	Significant quantity of overburden is present in this mine.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposals for backfilling in year 2023-24	Area has yet not been matured for backfilling.	
5b	Area under backfilling of mined out area	No proposals are incorporated	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposals are incorporated	No proposals are incorporated	
5d	Total area fully reclaimed & rehabilitated	No proposals are incorporated	No proposals are incorporated	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area yet not matured for back filling		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2). Details should be given in the format as given in Annexure-20.	Proposals are incorporated	PMCP submitted (2023-24)	
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	Not applicable 0.05 hect. 110 plants 300 plants Not applicable -	Not applicable - 160 plants in within lease area as per Annual Return (AR) 460 as per AR -	
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	Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	Not applicable	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring proposed	Monitoring is done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Instructions have been given to construct retaining wall/parapet wall all along the dump. Instructions have been given for Proper management of the garland drains.		

7.0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work(2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals incorporated,	Entire Mineral is being used. 95% ROM saleable in the marked	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Applicable	Not Applicable	
7c	Different grade of mineral sorted out at mines	Not proposed.	Not Applicable	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Rom is sold to local buyers. In the mine, conservation efforts are focused on minimizing losses during excavation, processing, and transportation of the mineral.		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Not Applicable	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal incorporated	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No. proposal incorporated	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)		Cumulative 460 plants have been planted but survival rate is very poor.	
8g	Survival rate	60 to 70%	80%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul road for dust suppression in mine	Water Sprinkling on haul road for dust suppression is done occasionally.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The natural beauty around the mine site is mostly well-preserved, except in some areas where mining has caused land degradation. To protect and improve the landscape, it is important to focus on planting trees and plants. These should be local or climate-friendly species that can survive well in the area. Planting the right kind of saplings will help restore the land, reduce the impact of mining, and support the long-term health and beauty of the environment.		

9.0 Compliance of Rule 45

S N	Item	Details given in AR (2023-24)	Observation of I/Officer	Remarks
9a	Status of submission of Monthly and Annual returns	All Monthly and Annual Return Submitted.	All Monthly and Annual Return Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer is appointed Geologist is not appointed in the mine	Mining Engineer = Narendra Kumar Meena Geologist= Not Appointed	During the inspection geologist Lala Sanjeev Prasad was present
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1) Mining pits=0.957 Ha 2) Waste dumps =0.332 Ha 3) Road=0.235 Ha 4) Used For other purpose= 2.861 Ha 5) PMCP=0.245 Ha	1) Mining pits=0.957 Ha 2) Waste dumps =0.332 Ha 3) Road=0.235 Ha 4) Used For other purpose= 2.861 Ha 5) PMCP=0.245 Ha	Broadly as per proposal

9d	Scrutiny of Annual return on Afforestation	1) Number of trees planted during the year= 160 2) Total no. of trees at the end of the year=460	160 Plants is planted within lease area in year 2023-24	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No waste generated during the reporting year	No waste generated in the last year against the proposal of 1950 T	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1) Production of ROM ore at Mine-head= 4121 T. 2) Opening Stocks of ROM ore at Mine-head = 163.2 To cement grade	Proposed Production of ROM =37050 T	Production of ROM was very less
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	1) Sale value, for cement grade ₹ 1493550. 2) Ex. Mine price, Cement grade=₹ 350/T. 3) Cost of production =350/T.	Ex mine price and cost of production are equal this information seems to wrong therefore violation 45(7) has been pointed out.	
9h	Scrutiny of Annual return on fixed assets	zero	zero	
9i	Scrutiny of Annual return on mining machineries	Air Compressor, Blast Host Drill and dumper	Broadly as per proposal	

10. MCDR COMPLIANCE PAST AND PRESENT

S. N	Previous date of inspection	16.12.2023	
9b	Violations pointed out in previous inspection	No violation 34a(2) on record basis	
9c	Check Compliance status of complied violations	34a(2)	

9d	Pending violations	No violation pending	
9e	Violation Detected And Pointed Out During This Inspection	11(1), 45(7)	

Date:

Nitin
Junior Mining Geologist
Indian Bureau of Mines