

# MCDR INSPECTION REPORT

## 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Bhootmarhi Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area: 32.57 ha. Forest area: Nil Non-Forest-32.57
2a	Date of Inspection	01-10-2022
3	Mine code	38HPR10030
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/7177/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Virender Kumar Walia Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173025 Phone: 9418016223 Email: supriyank11@gmail.com
6	Village	Mandoli
7	Taluka/Mandal	Sangrah
8	District	Sirmour
9	Pincode	173025
10	State	Himachal Pradesh
11	Post office	Sataun
12	Nearest police station	Dehradun
13	Nearest Railway station	Dehradun
14	Date of Grant of Mining Lease	25-04-1985
15	Date of Execution	25-04-1985
16	Date of opening of Mine	02-05-1985
17	Date of first Renewal, if applicable and its period & expiry	25-04-2005
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Virender Kumar Walia Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173025 Phone: 9418016223 Email: supriyank11@gmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Virender Kumar Walia Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173025 Phone: 9418016223 Email: supriyank11@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D.K.Singha Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173025 Phone: 9816179811
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri D.K.Singha Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173025 Phone: 9816179811
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Mr. Vikrant Thakur (Geologist) Yes, Mr. Shri D.K. Singha (Mining Engineer)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan Approved on 09-03-2022. Letter No.614(2)/MP-B-283/08-DDN From FY 2022-23 to FY 2026-27
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modified Mining Plan Approved on 15-11-2019. Letter No.614(2)/MP-B-283/08-DDN From FY 2019-20 to FY 2021-22
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	A (FM)
30	Captive/Non Captive	Non-Captive

Scientific Mining: Compliance of proposals of approved Modified Mining Plan: –



## Exploration

SN	Item	Proposals (2021-22)	Actual work	Remarks
1a	Backlog of previous year	Bore holes were proposed during year 2019-20 and 2020-21	10 CBH boreholes were carried during the year 2021-22.	
1b	Exploration over lease area for Geological axis 1 or 2.	4 Bore Holes Proposal was proposed during 2022-23	No exploration was carried out during the year 2022-23 till on date 01.10.2022	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved mining plan G1-20.3637 Ha G2-12.2063 Ha	As per approved mining plan G1-20.3637 Ha G2-12.2063 Ha	
1e	Balance reserves as on 01.04.2021.	Reserves- 13.7323 million tonnes Resources—23.980875 million tonnes Total- 37.713175 million tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	A) 14 Core Bore Holes was proposed during year 2019-20 and 2020-21 but only 10 bore Holes were carried out during the year 2021-22 B) 4 Bore Holes Proposal was proposed during 2022-23 but No exploration was carried out during the year 2022-23 till on date 01.10.2022.		

## 2.0 Development

SN	Item	Proposals (2021-22)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Development was proposed towards North - South direction of lease area from 1500 mRL to 1370 mRL. The Limestone proposed to be Extracted through 10 m height of 6 benches.	Development work has been carried out at proposed place	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No such proposals are incorporated during the year 2021-22	Only Mineral benches developed in year 2021-22	
2c	Stripping ratio or ore to OB ratio	1:00	More or less same	
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposals are incorporated	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	No such proposals is incorporated	Nil	
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		

## 3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work	Remarks
3a	Number of pits proposed for production.	As per proposal Five pit is proposed for production	During inspection only two pit is observed for production.	
3b	Quantity of mineral production proposed (Limestone)	ROM proposed during 2021-22 is 250000 Tonnes	ROM generated during 2021-22 is 133986.56 tonnes.	
3c	Recovery of salable/ usable mineral from ROM production	100% recovery from ROM	ROM is saleable in the market.	
3d	Quantity of mineral reject generation	No proposals are incorporated	No 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 was carried out in the mine	
3i	Any analysis or beneficiation study proposed & carried out for	Not Applicable	Not Applicable	



	sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Drilling operation proposed by Deep holes of 83mm dia. are charged machine hole dia 100 m depth 6 metre. Blasting operation was proposed by safety fuse and ordinary detonator.	Yes. Deployed as per proposal.	
3k	Provision of mining machineries in mineral benches	Hydraulic excavation L&T with bucket capacity 1.5 cu.m using for limestone loading operation	Deployed as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes. Average Height of benches proposed are 10 m.	Bench height has been observed as per proposed height	
3m	Total area covered under excavation/pits	10.1832 ha	Tentatively within the proposals	
3n	Ore to OB ratio for the pit/mine during the year	01.00	More or less it is 1:0.05	
3o	Total area put in use under different heads at the end of year	14.23 ha (up to plan period)	Within the limit of proposal incorporated in the mining plan.	
3p	Production of Limestone & Shale during last five-year period, as applicable	2017-18-138524 Tonnes 2018-19-205127 Tonnes 2019-20-250000 Tonnes 2020-21-250000 Tonnes 2021-22-250000 Tonnes	2017-18-107944 Tonnes 2018-19- 93540 Tonnes 2019-20- 161413 Tonnes 2020-21-54877.5 Tonnes 2021-22-133986.56 tonnes.	
3q	General remarks of inspecting officer on method of mining etc.	During the inspection it was observed that proposed development works were being carried out at the earmarked places.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2021-22)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposals are incorporated for separate dumping in approved Mining Plan	No top soil & Over burden are seen during inspection	
4b	Location of topsoil, OB & mineral reject dumps	No proposals are incorporated for separate dumping in approved Mining Plan	2 dumps are existed in the lease WD1 at north and WD2 at north east of the lease	
4c	Number of dumps within lease area and outside lease area	No proposals are incorporated for separate dumping in approved Mining Plan	2 dumps are existed in the lease WD1 at north and WD2 at north east of the lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per proposals dumping was proposed within the lease area	All dumps were within the lease area	
4e	Number of active & alive dumps	None	2	
4f	Number of dead dumps	None	Not applicable.	
4g	Number of dumps stabilised	None	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes proposal incorporated	Not erected	
4i	Length of Retaining wall or garland drain all along dump	50	erected	
4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting officer	No top soil and overburden is seen during inspection. No proposal incorporated for separated dumping of Top Soil and OB during year 2021-22		

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2021-22)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposals for backfilling in year 2021-22	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
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### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2021-22)	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.	Submitted	Submitted	
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) ) Not applicable ii) 0.1 ha iii) 100 saplings iv) 300 saplings v) Not applicable vi) Nil	i) Not applicable ii) 0.1 ha iii) 320 saplings iv) 1820 saplings approx v) Not applicable Nil	
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	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Applicable	Not Applicable	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	-	Regular monitoring done	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report under 26(2) of MCDR-2017 has been submitted within the stipulated time.		

### 7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals incorporated.	100% recovery from ROM	
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	Grade wise sorting is not proposed.	Grade wise sorting is not carried out at the mine. As learnt shorting is carried out at stockyard.	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no problem of mineral Conservation at this Mine.		

### 8.0 Environment

SN	Item	Proposals (2021-22)	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	916 cubic meter was proposed during year 2021-22	No top soil & Over burden are seen during inspection.	
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	Small quantity of interburden generated in form of dolomite boulder.	
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)	Baseline study done	During Year 2020-21, 320 sapling plant was planted	
8g	Survival rate	60 to 70%	It is around 70%	
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	Aesthetic beauty is maintained more or less except degradation of land due to mining. More focus is to be given to maintain the aesthetic beauty by planting suitable saplings having good survival rate depending on the existing climatic condition in and around mine site.		

#### 9.0 Compliance of Rule 45


S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	All Monthly and Annual Return Submitted.		
S.N	Item	Details given in AR (2020-21)	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer is appointed	Mining Engineer and Geologist is appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area utilisation under current working- 10.703, Reclaimed 0, used for waste disposal 0 and Road-0.269	Seen as per information given.	
9d	Scrutiny of Annual return on Afforestation	1) Within lease area-320 plants 2) Outside lease area-0	Seen as per information given.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	995 Tonne	Seen as per information given.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	133986.56 tonne	Found as per Information given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price for LD is 340 and Cement is 320 per tonne and Cost of production is 341.85 per tonnes	Found as per Information given	
9h	Scrutiny of Annual return on fixed assets	0	Found as per Information given	
9k	Scrutiny of Annual return on mining machineries	Air Compressor, Shovel(Hydraulic), Back Hoe and Dumper	Found as per Information given	



10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-  
**MCDR COMPLIANCE PAST AND PRESENT**

S.N	Previous date of inspection	15.12.2021	
9b	Violations pointed out in previous inspection	Rule 11(1), 26(2) and 55	
9c	Check Compliance status of complied violations	Compliance has been observed as per control chart.	
9d	Pending violations	Nil	
9e	Status of compliance of MCDR,2017, including therewith the rectification of outstanding violation of rules	Nil	
9f	Violation Detected And Pointed Out During This Inspection	Nil	

Date: 17.03.2023

  
Mukesh Kumar Sharma  
Indian Bureau of Mines