

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR REPORT
Dehradun regional office

Mine code: 38HPR10037

(i)	Name of the Inspecting Officer	Nitin
(ii)	Designation	Junior Mining Geologist
(iii)	Accompanying mine official with designation	Shri Ravi Singh (Mine Manager) Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173025
(iv)	Date of Inspection	27.11.2024

PART-I: GENERAL INFORMATION

1	Mine Name	Barwana Limestone Mine
2	Registration No.	IBM/4621/2011
3	Category	A-Category
4	Type of Working	Opencast
5	Postal Address	-
6	State	Himachal Pradesh
7	District	Sirmour
8	Village	Ranfua
9	Taluka/Tehsil	Sangrah
10	Post Office	Andheri
11	Pin Code	173001
12	FAX No.	-
13	E-mail	shersinghpaonta@gmail.com
14	Phone	9418549276
15	Police Station	Renuka Ji
16	Nearest railway Station	Dehradun
17	Date of grant of mining lease	03.08.1990
18	Date of execution	03.08.1990
19	Date of Opening of mine	
20	Date of first Renewal, if applicable and its period & expiry	03.08.1990 to 02.08.2000 for the period of 10 year
21	Date of second Renewal, if applicable and its period & expiry	03.08.2000 to 02.08.2010 for the period of 10 year
22	Date of 3rd Renewal, if applicable and its period & expiry	03.08.2010 to 02.08.2040 for the period of 30 year
23	Name of the Nominated Owner with address, phone, email, fax number, date of appointment	Shri Rajendra Singh Village & Post- Ranfua & Andheri, Tehsil- Renukaji District – Sirmour (H.P)-173001 Phone: 9418549276

24	Name of the mine agent with address, phone, email, fax number,date of appointment	Shri S S Negi Village & Post- Ranfua & Andheri, Tehsil- Renukaji District – Sirmour (H.P)-173001 Phone: 9418549276
25	Name of the mine manager with address, phone, email, fax number,date of appointment	Shri Ravi Singh (Mine Manager) Village & Post- Dadahu, Tehsil- Renukaji District – Sirmour (H.P)-173001
26	Name of the mining engineer,qualification, experience with address, phone, email, fax number,date of appointment	Not appointed in the mine as per the annual return
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55	Not appointed in the mine as per the annual return
28	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 was Approved on 26.07.2022. Letter No.614(2)/MS-B-216/12-DDN From FY 2022-23 to 2026-27
29	Date of approval of Mining scheme with five year period and specific condition in approval letter, if any	
30	Mineral(s) granted in lease and proved for mining	Limestone
31	Method of Mining(Open cast, Underground)	Open cast
32	Category (Fully Mechanized, Others or Manual)	Mechanized
33	Captive/Non Captive	Non Captive

PART-II: OBSERVATION / COMMENT OF INSPECTING OFFICER

1. Exploration:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-	Remarks
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			24)	
1a	Backlog of previous year	No Bore holes was proposed during 2023-24	Not applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	G1- 2.67 ha, G2 -0.23 ha	G1- 2.67 ha, G2 -0.23 ha	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	G1- 2.67 ha, G2 -0.23 ha	G1- 2.67 ha, G2 -0.23 ha	
1e	Balance reserves as on 01.04.2024	As on 01.04.2023 Reserves= 230,795.00 T	As on 31.03.2024 Balance reserves= 203,632.60 T	27162.4 T has been extracted during the year
1f	General remarks of Inspecting officer on geology, exploration etc.			

2. Development:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
2a	Location of Development w.r.t. lease area	Working has been proposed in 2 benches from 1420 mRL to 1410 mRL with height of height of 5 m	Mining operations were carried out at proposed place. But the height of the benches found more than the proposals.	Violation of rule 11(1) of MCDR 2017 has been pointed out.
2b	Separate benches in topsoil overburden and mineral	Benches of 5 meter was proposed to be Prepared and maintained in the mineral.	Height of the benches found more than the proposals.	The working benches are in limestone
2c	Stripping ratio or ore to OB ratio	1:00	1:00	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of Inspecting officer on development of pit	Violation is issued to lessee as per rule 11(1) of MCDR 2017		

	w.r.t type of deposit etc.	
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3. Exploitation:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposed for production	Working has been proposed in pit id 1	As per proposal	
3b	Quantity of ROM mineral production proposed	37500 T	27162.4 T	
3c	Recovery of Salable/usable mineral from ROM production	90%	Entire ROM is saleable	
3d	Quantity of mineral reject generation	No proposals is incorporated	No mineral reject is generated.	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Not applicable	
3f	Quantity of sub-grade mineral generation	Not Proposed	Not applicable	
3g	Grade of sub-grade mineral generation	Not applicable	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized method	Mechanical method adopted for working	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Drilling operation proposed by Jack hammer machine hole dia 100mm depth 6 m. Blasting Operation was proposed by safety fuse and ordinary detonator.	As per proposal	
3k	Provision of mining machineries in mineral benches	Excavators/JCB, dumpers	Deployed as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Using Open cast method of mining & Bench height proposed 5 m in the Mines.	Height of the benches found more than the proposals.	
3m	Total area covered under	As on 01.04.2024	As on	

	excavation /pits	area of 1.48 h for mining was proposed	01.04.2024 Area 1.48 h As per annual return	
3n	Ore to OB ratio for the pit/mine during the year	Not applicable	Not applicable	
3o	Total area put in use under different heads at the end of year	2.05 Ha	1) Covered under current (O-C) Workings=1.48 H 2) Occupied by plant, buildings, residential, welfare buildings and roads=0.231 H 3) Green belt=0.014 Ha Total=1.725	As per annual return
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20=32750 T 2020-21=39002 T 2021-22=39375 T 2022-23=34925 T 2023-24=37500 T	2019-20=27355 T 2020-21=18033.5 T 2021-22=14112.6 T 2022-23=12986.1 T 2023-24=27162.4 T	
3q	General remarks of inspecting officer on method of mining etc.	Development works has not been carried out at the proposed places. However, height of the benches was maintained as per proposal.		

4. Solid Waste Management-Dumping:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	proposed	No waste generated during the year as per the annual return	
4b	Location of topsoil, OB & mineral reject dumps	proposed	No waste generated during the year as per the annual return	
4c	Number of Dumps within lease area and outside lease area	1 (D3:- extension of the dump of 2022-23)	No waste generated during the year as per the annual return	

4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	proposed	No waste generated during the year as per the annual return	
4e	Number of Active & Alive dumps	1	No waste generated during the year as per the annual return	
4f	Number of dead dumps	Not proposed	Not applicable	
4g	Number of dumps established	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	proposed	Not constructed as per the approved mining plan	Violation is pointed out under 11(1) of MCDR
4i	Length of Retaining wall or garland drain all along dump	Proposed (10m at the base of dump D3)	Not constructed as per the approved mining plan	Violation is pointed out under 11(1) of MCDR
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Fencing has not been done as per the approved mining plan.		

5. Solid Waste Management-Backfilling:

S.N.	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	Not proposed	Not applicable	
5b	Area under backfilling of mined out area	Not proposed	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not applicable	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Due to mineral continuity in the ML area backfilling was not proposed.		

6. Progressive Mine Closer Plan:

S.N.	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	Proposed	Submitted	
6b	Management of worked/mined out benches			

	i) Area available for rehabilitation (Ha)	Not Proposed	Not applicable	
	ii) Afforestation done (ha)	Not Proposed	Not applicable	
	iii) No. of saplings planted during the year	Not Proposed	Not applicable	
	iv) Cumulative no. of plants	Not Proposed	Not applicable	
	v) Any other specific method of rehabilitation	Not Proposed	Not applicable	
	vi) Cost incurred on watch & care during the year	Not Proposed	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	Not Proposed	Not applicable	
	ii) Void filled by waste/tailings	Not Proposed	Not applicable	
	iii) Afforestation on the backfilling	Not Proposed	Not applicable	
	iv) Rehabilitation by making water reservoir	Not Proposed	Not applicable	
	v) Any other specific means	Not Proposed	Not applicable	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Proposed 180plants over an area of 0.18 Ha in safety barrier zone	Not done as per approved mining plan	Violation is pointed out under rule 42 of MCDR
	ii) Area rehabilitation	0.18 Ha	Not done as per approved mining plan	
	iii) Method of rehabilitation	Plantation	Not done as per approved mining plan	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment Monitoring proposed	Environment Monitoring done	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations			

7. Mineral Conservation:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Not proposed	Not applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Not applicable	
7c	Different grade of mineral sort out at mine	Not proposed	Not applicable	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Rom is sold to local buyers.		

8. Environment:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Not applicable	Generated soil used in plantation
8b	Concurrent use or storage of topsoil	Not Proposed	Not applicable	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	No waste generated during the year as per the annual return	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	602 saplings at the end of previous plan period		180 saplings have been proposed for the current year within the mining lease area. No plantation has been done as per the

				proposals
8g	Survival rate	60%	No plantation has been done as per the proposals	
8h	Water sprinkling on roads to control airborne dust	Proposed	By using water tanker and sprinklers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	The aesthetic beauty of the area is largely maintained, except for the land degradation caused by mining. To preserve this beauty, more focus should be placed on planting appropriate saplings with a high survival rate, considering the local climatic conditions around the mine site.		

9. Compliance of Rule 45:

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	AR and MR submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	No mining engineer and geologist appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	1) Covered under current (O-C) Workings=1.48 H 2) Occupied by plant, buildings, residential, welfare buildings and roads=0.231 H 3) Green belt=0.014 Ha Total=1.725
9d	Scrutiny of Annual return on afforestation	Furnished	180 saplings have been proposed for the current year but no new plantation has been seen during the inspection.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Furnished	zero
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Furnished	1) Production of ROM ore at Mine-head= 27162.4 T 2) Opening Stocks of ROM

			ore at Mine-head= 5749 T (cement grade) and 69 T (LD grade)
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Furnished	1) Ex. Mine price= ₹ 310 ₹(cement grade) 2) production costs= ₹ 268.97
9i	Scrutiny of Annual return on Fixed assets	Furnished	₹ 1500000
9k	Scrutiny of Annual return on mining Machineries	Furnished	Type of Machinery: truck

10- MCDR COMPLINCE PAST AND PRESENT

S.N	Previous date of inspection	14.12.2023	
9b	Violations pointed out in previous inspection	No violation has been pointed out	
9c	Check Compliance status of complied violations	NA	
9d	Pending violations	No violation pending	
9e	Violation Detected And Pointed Out During This Inspection	11(1), 42, 55	

Yours faithfully,

नितिन /Nitin
कनिष्ठ खनन भू-विज्ञानी/Junior Mining Geologist
भारतीय खान ब्यूरो/Indian Bureau of Mines