

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

Mine code: 38HPR10044

(i)	Name of the Inspecting Officer	Nitin
(ii)	Designation	Junior Mining Geologist
(iii)	Accompanying mine official with designation	Rohit Thakur (director in charge) CCI Road, Village & P.O. Sataun District – Sirmour (H.P)-173025 Phone: 9816796085
(iv)	Date of Inspection	28.11.2024
(v)	Prev. Inspection date	19.10.2023

PART-I: GENERAL INFORMATION

1	Mine Name	Barwas Limestone Mine
2	Registration No.	IBM/487/2011
3	Category	A-Category
4	Type of Working	Opencast
5	Postal Address	-
6	State	Himachal Pradesh
7	District	Sirmour
8	Village	Barwas
9	Taluka/Tehsil	Paonta Sahib
10	Post Office	Sataun
11	Pin Code	173029
12	FAX No.	-
13	E-mail	jalamsing@redifmail.com
14	Phone	9816796085
15	Police Station	
16	Nearest railway Station	Dehradun
17	Date of grant of mining lease	27.12.1986
18	Date of execution	08.03.1987
19	Date of Opening of mine	08.03.1987
20	Date of first Renewal, if applicable and its period & expiry	No
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of 3rd Renewal, if applicable and	NA

	its period & expiry	
23	Name of the Nominated Owner with address, phone, email, fax number,date of appointment	M/s Jakra Mines and Minerals Village & Post- Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9816796085 Email: jalamsing@redifmail.com
24	Name of the mine agent with address, phone, email, fax number,date of appointment	Mam Raj Thakur Village & Post- Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029
25	Name of the mine maneger with address, phone, email, fax number,date of appointment	Dharmendra Bhati Village & Post-Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9829233994
26	Name of the mining engineer,qualification, experience with address, phone, email, fax number,date of appointment	Dharmendra Bhati, (Part Time) Village & Post-Sataun, Tehsil- Paonta Sahib District – Sirmour (H.P)-173029 Phone: 9829233994
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55	Mrs. Ritu Aggrawal, M.Sc(Geologist) Mr. Dharmendra Bhati, B.E (Mining)
28	Date of approval of Mining Plan/Modified Mining Plan with five year period and specific condition in approval letter, if any.	Review & Updation of Mining Plan Approved on 13-09-2021. Letter No.614(2)/MS-B-193/11-DDN From FY 2021-22 to FY 2025-26
29	Date of approval of Mining scheme with five year period and specific condition in approval letter, if any	Modified Mining Plan Approved on 15-03-2017. Letter No.614(2)/MP-B-193/11-DDN From FY 2016-17 to FY 2020-21
30	Mineral(s) granted in lease and proved for mining	Limestone
31	Method of Mining(Opencast, Underground)	Opencast
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 (2023-24)	Remarks
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.	Not proposed	Not applicable	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	As per approved mining plan G1-2.39 Ha G2-1.84 Ha G3-4.68 Ha	As per approved mining plan G1-2.39 Ha G2-1.84 Ha G3-4.68 Ha	
1e	Balance reserves as on 01.04.2024	As on 01.04.2023 Reserves=6,039,253 T	As on 31.03.2024 Balance reserves= 5,983,101.60 T	56151.4 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 3 benches from 1506 to 1488 mRL with height of 6 m	Height of the benches was not found as per proposal	Violation of rule 11(1) of MCDR 2017 has been pointed out.
2b	Separate benches in topsoil overburden and mineral	Benches of 6 meter was proposed to be Prepared and maintained in the mineral.	benches in mineral not developed as per proposal	The working benches are in limestone
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.05	
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 w.r.t type of deposit etc.	Violation is issued to lessee as per rule 11(1) of MCDR 2017		

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 one pit	found as per proposed places	Height of the benches was not found as per proposal therefore violation of rule 11(1) has been pointed out.
3b	Quantity of ROM mineral production proposed	95048 T	56151.4 T	
3c	Recovery of Salable/usable mineral from ROM production	95%	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. Blasting Operation was proposed by safety fuse and ordinary detonator.	As per proposal	
3k	Provision of mining machineries in	Excavators/JCB,	Deployed as per	

	mineral benches	dumpers	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 6 m in the Mines.	Bench height has not been Observed as per proposal.	
3m	Total area covered under excavation /pits	As on 01.04.2024 area of 1.67 h for mining was proposed	As on 01.04.2024 Area 1.7 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	4.61 H	1) Covered under current (O-C) Workings=1.7 H 2) Occupied by plant, buildings, residential, welfare buildings and roads=1.8 H 3) Reclaimed rehabilitated=1.0 H 4) PMCP work= 0.05 H	As per annual return
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20=114713 T 2020-21=124973 T 2021-22=75212 T 2022-23=85130 T 2023-24= 95048 T	2019-20=36219 T 2020-21=37349 T 2021-22=32318.1 T 2022-23=40663.1T 2023-24= 55371.4T	
3q	General remarks of inspecting officer on method of mining etc.			

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)	Not proposed	Not applicable	Generated soil has been used in plantation and road maintenance
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Not applicable	
4c	Number of Dumps within lease area and outside lease area	One (N268 to N276 & E290 to E311)	It was proposed to extend the existing dump and work was	

			undertaken accordingly.	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Towards SE slope of the lease area	Found during the inspection	
4e	Number of Active & Alive dumps	Not proposed	Not applicable	
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 as per proposals.	
4i	Length of Retaining wall or garland drain all along dump	proposed	Not found all along the dump	Violation of rule 11(1) has been pointed out.
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Instructions have been given for Protective measures such as retaining/crate wall should be done as per the requirement of the lease area apart from the given proposal.		

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	Not Proposed	Not applicable	

	(Ha)			
	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	75 saplings proposed	No fresh plantation has been observed during the inspection.	Violation of rule 42 has been pointed out.
	ii) Area rehabilitation	Not applicable	Not applicable	
	iii) Method of rehabilitation	Not applicable	Not applicable	
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	Instructions have been given for Protective measures such as retaining/crate wall should be done as per the requirement of the lease area apart from the given proposal.		

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 and maintenance of road
8b	Concurrent use or storage of topsoil	Not Proposed	Not applicable	Generated soil used in plantation and maintenance of road
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	Not as per proposal	
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)	proposed	Not as per proposal	75 saplings have been proposed but no fresh plantation has been observed during inspection.
8g	Survival rate	80%	70%	As per annual return
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	Mrs. Ritu Aggrawal, M.Sc (Geologist) Mr. Dharmendra Bhati, B.E (Mining)
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=1.7 H 2) Occupied by plant, buildings, residential, welfare buildings and roads=1.8 H 3) Reclaimed rehabilitated=1.0 H 4) PMCP work= 0.05 H
9d	Scrutiny of Annual return on afforestation	Furnished	75 saplings have been proposed but no fresh plantation has been observed during 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= 55371.4 T 2) Opening Stocks of ROM ore at Mine-head= 9929.5 T (cement grade)
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Furnished	1) Ex. Mine price=₹ 382.07 ₹(cement grade) 2) production costs= ₹ 314.31
9i	Scrutiny of Annual return on Fixed assets	Furnished	₹ 2407029
9k	Scrutiny of Annual return on mining Machineries	Furnished	Type of Machinery: Air compressor, Blast host drill and back hoe

10- MCDR COMPLINCE PAST AND PRESENT

S.N	Previous date of inspection	19.10.2023	
9b	Violations pointed out in previous inspection	Rule 11(1) & 45(7)	
9c	Check Compliance status of complied violations	Compliance has been observed as per control chart.	
9d	Pending violations	No violation pending	
9e	Violation Detected And Pointed Out During This Inspection	11(1), 42 & 45(7)	

Yours faithfully,

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