

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

Minecode: 38HPR10060

(i)	Name of the Inspecting Officer	Nitin
(ii)	Designation	Junior Mining Geologist
(iii)	Accompanying mine official with designation	Ajay Purkayastha (Mine manager) 220/1, Durga Coloney, Paonta Sahib, Sirmour (H.P) ajaypurkayastha@yahoo.com
(iv)	Date of Inspection	21.10.2024
(v)	Prev. Inspection date	29.05.2023

PART-I: GENERAL INFORMATION

1	Mine Name	Pamta Limestone Mine
2	Registration No.	IBM/12996/2012
3	Category	A-Category
4	Type of Working	Opencast
5	Postal Address	-
6	State	Himachal Pradesh
7	District	Sirmour
8	Village	Pamta
9	Taluka/Tehsil	Paonta Sahib
10	Post Office	Shawga
11	Pin Code	176617
12	FAX No.	-
13	E-mail	ajaypurkayastha@yahoo.com
14	Phone	09418475799
15	Police Station	Paonta Sahib
16	Nearest railway Station	Dehradun
17	Date of grant of mining lease	16.06.1986
18	Date of execution	16.06.1986
19	Date of Opening of mine	10.01.1987
20	Date of first Renewal, if applicable and its period & expiry	16.06.2006 to 15.06.2026
21	Date of second Renewal, if applicable and its period & expiry	
22	Date of 3rd Renewal, if applicable and its period & expiry	
23	Name of the Nominated Owner With address, phone, Email, Fax number, date of appointment	
24	Name of the mine agent With address, phone, Email, Fax number, date of appointment	Ragubir Singh Kapoor Pamta village, Sirmour(H.P)
25	Name of the mine maneger With address, phone, Email, Fax number, date of appointment	Ajay Purkayastha (Mine manager) 220/1, Durga Coloney, Paonta Sahib, Sirmour (H.P)

		ajaypurkayastha@yahoo.com
26	Name of the mining engineer, qualification, experience With address, phone, Email, Fax number, date of appointment	Ajay Purkayastha (Mine manager) 220/1, Durga Coloney, Paonta Sahib, Sirmour (H.P) ajaypurkayastha@yahoo.com
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55	Ritu Aggarwal (Geologist) House no 18, Housing Board Colony Nahan tahsil, Sirmour (H.P)
28	Date of approval of Mining Plan/Modified Mining Plan with five year period and specific condition in approval letter, if any.	03.12.2020 2020-21 to 2025-26
29	Date of approval of Mining scheme with five year period and specific condition in approval letter, if any	24.09.2015 2015-16 to 2019-20
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	Actual Work	Remarks
1a	Backlog of previous year	No borehole proposed during the previous year	However 3 boreholes have been done during 2023-24.	
1b	Exploration over lease area for Geological axis 1 or 2.	Entire lease Area is converted under G1 / G2 level of exploration.	Entire lease Area is converted under G1= 3.1ha.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2024	As on 1.4.2020-Reserves-338746 Tonnes	Depletion=1253T.in 2022-23 Depletion=4775T.in 2023-24 Balance reserves as on 01.04.2024=332718 T	4775 T has been extracted during the year

1f	General remarks of Inspecting officer on geology, exploration etc.	Production was very less. Bench height not found as per proposal.		

2. Development:

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development work was proposed from 1376 mRL to 1358 mRL, with bench heights set at six meters.	Some development work has been done. Bench height not found as per proposal.	
2b	Separate benches in topsoil overburden and mineral	NA	NA	The working benches are in limestone
2c	Stripping ratio or ore to OB ratio	NA	NA	
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.	This year, new working benches are proposed to be developed on the eastern side. The height of each mine working bench will be maintained at 6 meters. A total of three benches are planned, extending from the top level at 1376 mRL down to the bottom level at 1358 mRL. However, Some development work has been done.		

3. Exploitation:

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	60000 T	4775 T	As per submitted annual return. Most of the information related to the reserve has been submitted incorrectly.
3c	Recovery of Salable/usable mineral from ROM production	99%	99%	
3d	Quantity of mineral reject generation	1%	0	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	

3h	Manual/Mechanized method adopted for segregation from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes, Drilling operation was proposed by Jack hammer drilling and Blasting operation was Proposed by slurry explosives.	As per proposal	
3k	Provision of mining machineries in mineral benches	Excavators/JCB, dumpers/tipper	Excavator with dumpers is used for loading and transportation of limestone.	
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 should be 6 m in the Mines.	According to mining plan bench height should be approx 6 m but it has been found in the range of 8-12 m	
3m	Total area covered under excavation /pits	An area of 1.976 ha for mining at the end of five year plan	As on 01.04.2024 Area 1.66 ha as per submitted annual returns.	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
3o	Total area put in use under different heads at the end of year	1.976 ha for pit and quarries 0.042 for road 0.008 for parapet walls and check dams	As on 01.04.2024 Area 1.696 ha as per submitted annual returns.	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20=60000 2020-21=27706 2021-22=60000 2022-23=60000 2023-24=60000	2019-20=19710.40 2020-21=1253 2021-22=0 2022-23=0 2023-24=4774	Units are in tonnes
3q	General remarks of inspecting officer on method of mining etc.			

4. Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual Work	Remarks
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4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Nil	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Nil	Nil	
4c	Number of Dumps within lease area and outside lease area	Nil	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Some of the runoff material has been found within the lease area in the NE region of the ML.
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	30m	Parapet walls have been constructed to contain the waste material.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	Preventive measures have been implemented to ensure the stability of runoff material. Retaining and parapet walls have been constructed to contain the runoff material effectively. Settling pond can be constructed to capture the runoff water which restricts the khalla/stream to get polluted.		

5. Solid Waste Management-Backfilling:

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
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	Actual Work	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	Nil	
	ii) Afforestation done (ha)	0.045 Ha	Not as per proposal	
	iii) No. of saplings planted during the year	55	40	Not as per proposal
	iv) Cumulative no. of plants	250	190	During inspection very minimal plants has been found.
	v) Any other specific method of rehabilitation	Not Proposed	Nil	
	vi) Cost incurred on watch & care during the year	13750/-	Not as per proposal	During inspection very minimal plants has been found.
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	Not Proposed	Nil	
	ii) Void filled by waste/tailings	Not Proposed	Nil	
	iii) Afforestation on the backfilling	Not Proposed	Nil	
	iv) Rehabilitation by making water reservoir	Not Proposed	Nil	
	v) Any other specific means	Not Proposed	Nil	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Not Proposed	Nil	
	ii) Area rehabilitation	Not Proposed	Nil	
	iii) Method of rehabilitation	Not Proposed	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring has been Proposed	Work done as per proposal	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation has not been found as per proposal.		

7. Mineral Conservation:

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	60000 tones Production has been proposed	Dispatch from the mine head=4775 tones	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Nil	
7c	Different grade of mineral sort out at mine	Not proposed	Nil	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Rom is sold to local buyers. Buyer has not been registered on IBM. As per MCDR rule 45(7) buyer should have IBM registration number.		

8. Environment:

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Nil	
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Afforestation to be done on 0.045 ha Area during 2023-24	Not as per approved mining plan	190 saplings have been planted within the mining lease area as of 01.04.2024
8g	Survival rate	50%	5%	
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			

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	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	
9d	Scrutiny of Annual return on afforestation	Furnished	Number of trees planted during the year 40. Survival rate in percentage from 5 to 10%. Total no. of trees at the end of the year was very minimal.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Furnished	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Furnished	Production of ROM ore at Mine-head= 4775 tones Stocks of ROM ore at Mine-head = 0
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Furnished	400
9i	Scrutiny of Annual return on Fixed assets	Furnished	zero
9k	Scrutiny of Annual return on mining Machineries	Furnished	Type of Machinery: Front end loader, Dumper.

Yours faithfully,

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