

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMNT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SRM/LST-28

Mine code : 38HPR10052

- (i) Name of the Inspecting Officer and ID No. : 002) DAMODAR PRASAD SHARMA
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine Official with Designation : PARVESH CHAUHAN, OWNER
- (iv) Date of Inspection : 17/11/2019
- (v) Prev.inspection date : 18/04/2019

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BARWAS (4.15 HA)
- (b) Registration NO. : IBM/4163/2011
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : HIMACHAL PRADESH
District : SIRMUR
Village : BARWAS
Taluka : PAONTA SAHIB
Post office : KAMROO
Pin Code : 173029
FAX No. : NONE
E-mail : NONE
Phone : (01704) 262635
- (f) Police Station : PAONTA SAHIB
- (g) First opening date : 15/09/1985
- (h) Weekly day of rest : SUN
2. Address for correspondance : M/S BARWAS MINES
VILLAGE & PO - KAMRAO
DISTRICT - SIRMOUR (H.P)
3. (a) Lease Number : HPR0013
- (b) Lease area : 4.16
- (c) Period of lease : 50
- (d) Date of Expiry : 21/04/2035
4. Mineral worked : LIMESTONE Main

MINING BUREAU OF HIMACHAL PRADESH
 MINERAL DEVELOPMENT AND REGULATION DIVISION
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5. Name and Address of the

Lessee : BARWAS MINES
 VILL & PO - KAMROO PAONTA
 SAHIB SIRMOUR SIRMUR
 HIMACHAL PRADESH
 Phone:
 FAX :

Owner : KARAN SINGH
 VILL - BARBAS, PO-KAMRAO
 TEHSIL - PAONTA SAHIB
 SIRMOUR SIRMUR HIMACHAL
 PRADESH
 Phone:
 FAX :

Mining Engineer

Name : SUNIL KUMAR KESHRI, Full Time
 Qualification : DIPLOMA IN MINING
 Appointment/ : 01/03/2005
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	30/11/1990
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	06/01/1998
	:	Mining Scheme rule 12 MCDR1988	01/05/2003
	:	Renewal under rule 22 MCR1960	11/08/2006
	:	Renewal under rule 22 MCR1960	17/07/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal for exploration incorporated for the year 2017-18	No proposal for exploration incorporated for the year 2017-18	
1b	Exploration over lease area for geological axis 1 or 2	G1-2.520 ha, G-2-Nil, G-3 1.637 ha G4- Nil	G1-2.520 ha, G-2-Nil, G-3 1.637 ha G4- Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	No exploration was carried out during the year 2018-19.	No exploration was carried out during the year 2018-19.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal incorporated in the approved Mining Plan	No proposal incorporated in the approved Mining Plan	
1e	Balance reserve as on 01/04/20	Reserve 111 0.5017 Million Tonnes Reserve 122 0.2071 Million Tonnes	Reserve 111 0.5017 Million Tonnes Reserve 122 0.2071 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	02 DTH proposed for exploration during year 2018-19.	No exploration was carried out during the year 2018-19. Violation point out as per rule 11(1) of MCDR-2017.	No exploration was carried out during the year 2018-19. Violation point out as per rule 11(1) of MCDR-2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	During year 2018-19 proposed development is envisaged in pit-1 and pit-2.	Proposed development at earmarked place.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Applicable	No topsoil present in this mine.	No topsoil present in this mine.
2c	Stripping ratio or ore to OB ratio	01:00.0	01:00.0	No overburden present in this mine.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	No proposal incorporated in approved Mining Plan .	Nil	No overburden generated during year 2018-19.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed development at earmarked place.	Proposed development at earmarked place.	Excavation was proposed in two pits namely Pit-1 and Pit-2. Development was carried at earmarked place but height of benches observed more than proposed height. Violation point as per rule 11(1) of MCDR-2017.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3b	Quantity of ROM mineral production proposed	Proposed production of limestone 94251Tonnes during year 2018-19	Actual production production 63275 Tonnes during year 2018-19.	No excess production observed during yera 2018-19.
3c	Recovery of sailable/usable mineral from ROM production	Recovery approximately 100 %	All the ROM sailable in the market.	All the ROM sailable in the market.
3d	Quantity of mineral reject generation	No proposals incorporated.	Nil	No mineral reject present in this mine.
3e	Grade of mineral rejects 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 incorporated .	Not Applicable	No proposals incorporated .
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Applicable	Not Applicable	

3j	Provision of drilling and blasting in mineral benches	Yes, Drilling operation carried out by using Jack Hammer, hole dia 32 mm and 1.3 mtr depth. Blasting operation carried out by using Ammonium Nitrate mixture and safety fuse.	Yes, Drilling operation carried out by using Jack Hammer, hole dia 32 mm and 1.3 mtr depth. Blasting operation carried out by using Ammonium Nitrate mixture and safety fuse.	Yes, Drilling operation carried out by using Jack Hammer, hole dia 32 mm and 1.3 mtr depth. Blasting operation carried out by using Ammonium Nitrate mixture and safety fuse.
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator Make- Tata Hitachi with 0.9 cum bucket capacity used for limestone loading operation.	Hydraulic Excavator Make- Tata Hitachi with 0.9 cum bucket capacity used for limestone loading operation.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	height of benches observed more than proposed height. Violation point as per rule 11(1) of MCDR-2017.
3m	Total area covered under excavation/pits	0.959 ha	0.959 ha	
3n	Ore to OB ratio for the pit/mine during the year.	01:00.0	01:00.0	No over burden generated during year 2018-19 in this mine.
3o	Total area put in use under different heads at the end of year	1.854 ha area proposed during plan period.	1.854 ha area during the plan period.	

3p	Production of ROM mineral during the last five year period as applicable	Year 2014-15 60243 Tonnes Year 2015-16 60040 Tonnes Year 2016-17 60363 Tonnes Year 2017-18 60235 Tonnes Year 2018-19 94251 Tonnes	Year 2014-15 Year 2015-16 Tonnes Year 2016-17 Tonnes Year 2017-18 Tonnes Year 2018-19 Tonnes	0 Tonnes 0 12233 47147 63275	No excess production observed during last five years.
3q	General remarks of inspecting officers on method of mining etc.	Excavation was proposed in two pits namely Pit-1 and Pit-2. excavation was carried at eamark place but height of benches observed more than proposed height. Violation point as per rule 11(1) of MCDR-2017.	Excavation was proposed in two pits namely Pit-1 and Pit-2. excavation was carried at eamark place but height of benches observed more than proposed height. Violation point as per rule 11(1) of MCDR-2017.	Excavation was proposed in two pits namely Pit-1 and Pit-2. excavation was carried at eamark place but height of benches observed more than proposed height. Violation point as per rule 11(1) of MCDR-2017.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposal incorporated.	No Proposal incorporated.	small quantity of waste has been generated which is being utilised for the purpose of construction of parapet walls and haul roads.
4b	Location of topsoil, OB and mineral reject dumps	No Proposal incorporated.	No Proposal incorporated.	

4c	Number of dumps within lease area and outside of lease area	No Proposal incorporated.	No Proposal incorporated.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	
4e	Number of active and 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.	Not Applicable	Not Applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not Applicable	Not Applicable	
4j	Number of settling ponds	None	None	
4k	Specific comments of inspecting officer on waste dump management	Insignificant quantity of waste has been generated during the year 2018-19. which is being utilised for construction of haul road and parapet walls.	Insignificant quantity of waste has been generated during the year 2018-19. which is being utilised for construction of haul road and parapet walls.	Insignificant quantity of waste has been generated during the year 2018-19. which is being utilised for construction of haul road and parapet walls.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposals incorporated	No Proposals incorporated	
5b	Area under backfilling of mined out area	Not Applicable	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Not Applicable	No top soil present in this mine.
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable	Approximately 0.03 ha of area has been covered under plantation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area yet to not matured for back filling.	Area yet to not matured for back filling.	Area yet to not matured for back filling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Not Submitted	Not Submitted	Violation point out as per rule 26(2) of MCDR-2017
6b	Area available for rehabilitation (ha) .	Not Applicable	Not Applicable	
6c	afforestation done (ha).	0.03 ha	0.03 ha	
6d	No. of saplings planted during the year	30 Nos Plantation during year 2018-19.	30 Nos Plantation during year 2018-19.	

6e	Cumulative no .of plants	100 Nos during plan period.	100 Nos during plan period.
6f	Any other method of rehabilitation	Not Applicable	Not Applicable
6g	Cost incurred on watch and care during the year	3600 Rs	3600 Rs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Applicable	Not Applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Applicable	Not Applicable

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Applicable	Not Applicable		
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Applicable	Not Applicable		
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Applicable	Not Applicable		
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitored	Montiored		
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP report not submitted for the year 2018-19 for which violation point out as per rule 26(2) of MCDR-2017.	PMCP report not submitted for the year 2018-19 for which violation point out as per rule 26(2) of MCDR-2017.	PMCP report not submitted for the year 2018-19 for which violation point out as per rule 26(2) of MCDR-2017.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal Incorporated	No Proposal Incorporated	
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 Applicable	Not Applicable	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	There is no advers effect of mineral conservation at this mine.	There is no advers effect of mineral conservation at this mine.	There is no advers effect of mineral conservation at this mine. All ROM saleable in the market.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Applicable	Not Applicable	No top soil present in this mine.
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposals incorporated	No proposals incorporated	No overburden and mineral reject present in this mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals incorporated	No proposals incorporated	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals incorporated	No proposals incorporated
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information study done.	Baseline information study done.
8g	Survival rate	50 to 60 % survival rate of plantation.	50 to 60 % survival rate of plantation.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road for dust suppression.	Water sprinkling on haul road for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty is maintained of the area expect degradation of land due to mining.	Aesthetic beauty is maintained of the area expect degradation of land due to mining.

Compliance of Rule 45:


Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All the returns are being submitted regularly .Annual return for the year 2018-19 has been submitted.	All the returns are being submitted regularly .Annual return for the year 2018-19 has been submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Mr. Sunil Kumar Kashri (Diploma in Mining).	Mining Engineer Mr. Sunil Kumar Kashri (Diploma in Mining).	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information Given	Information Given	
9d	Scrutiny of Annual return on afforestation	Information Given	Information Given	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information Given	Information Given	No mineral reject present in this mine.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information Given	Information Given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Return scrutinized for for Ex. Mine Price and production cost.	Return scrutinized for for Ex. Mine Price and production cost.	
9h	Scrutiny of Annual return on fixed assets	Information Given	Information Given	
9k	Scrutiny of Annual return on mining machineries	Information Given	Information Given	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	26/12/2019			
MCDR17	Rule 26(2)	26/12/2019			
MCDR17	Rule 33	26/12/2019			

Date : 17.07.2020


17.07.2020
(DAMODAR PRASAD SHARMA)

Indian Bureau of Mines