

INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SRM/LST-42

Mine code : 38HPR10037

- (i) Name of the Inspecting : 002 ) DAMODAR PRASAD SHARMA  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. N. S Rana, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 27-SEP-19
- (v) Prev.inspection date : 02-DEC-18

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BARWANA
- (b) Registration NO. : IBM/4621/2011
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : HIMACHAL PRADESH  
District : SIRMUR  
Village : BARWANA  
Taluka : SANGARH  
Post office : ANDHERI  
Pin Code :  
FAX No. : N.A  
E-mail : shersinghpaonta@gmail.com  
Phone : 09418549276
- (f) Police Station : RENUKAJI
- (g) First opening date : 25-AUG-80
- (h) Weekly day of rest : SUN
2. Address for : RAJENDRA SINGH  
correspondance : VPO - ANDHERI, TEHSHIL - SHRIRENUKAJI  
DISTRICT - SIRMOUR (HP)
3. (a) Lease Number : HPR0071
- (b) Lease area : 3.07
- (c) Period of lease : 50
- (d) Date of Expiry : 02-AUG-40
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : SUNDER SINGH  
SIRMUR HIMACHAL PRADESH  
Phone:  
FAX :

Owner : SHRI RAJENDRA SINGH  
VPO-ANDHERI, TEHSIL-SHRI  
RENUKAJI, DISTRICT-SIRMOUR,  
HP SIRMUR HIMACHAL PRADESH  
Phone:  
FAX :

## Mining Engineer

Name : N.S.Rana, Full Time  
Qualification : Mines Forman Certificate  
Appointment/ : 01-JUL-12  
Termination date

## Mining Engineer

Name : B. K. RAI, Full Time  
Qualification : FOREMAN CERTIFICATE HOLDER  
Appointment/ : 01-JAN-03  
Termination date

## Manager

Name : B. K. RAI  
Qualification : FORMAN CERTIFICATE HOLDER  
Appointment/ : 01-JAN-03  
Termination date

6. Date of approval of Mining  
Plan/Scheme of Mining

:	Fresh under rule 22 MCR1960	19-OCT-90
	Mining Scheme rule 12 MCDR1988	28-JAN-97
	Mining Scheme rule 12 MCDR1988	09-MAY-01
	Renewal under rule 22 MCR1960	16-JUL-07
	PMCP under 23B(1) for Renewal	16-JUL-07
	Mining Scheme rule 12 MCDR1988	06-DEC-12



## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 holes proposed during year 17-18.	05 holes proposed during year 17-18.	
1b	Exploration over lease area for geological axis 1 or 2	No Exploration Proposed during year 2018-19.	No Exploration Proposed during year 2018-19.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal given for balance area to be explored.	No proposal given for balance area to be explored.	
1e	Balance reserve as on 01/04/20	Balance reserve as on 01/04/2019 is 0.2835 Million Tonnes	Balance reserve as on 01/04/2019 is 0.2835 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	No Exploration Proposed during year 2018-19.	No Exploration Proposed during year 2018-19.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development proposed towards NE of existing pit by formation of two benches from 1475 mRL to 1465 mRL of 5 mtr height.	Development proposed towards NE of existing pit by formation of two benches from 1475 Mrl to 1465 Mrl of 5 mtr height.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Applicable	Not Applicable	No topsoil and over burden benches present.
2c	Stripping ratio or ore to OB ratio	01:00.0	01:00.0	No over burden present in this mine.
2d	Quantity of topsoil generation in m3	Nil	Nil	No topsoil present in this mine.
2e	Quantity of overburden generation in m3	Nil	Nil	



2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

development not carried out as per proposal .height of the benches is more than proposed height and unsystematic mining done during year 2018-19. Propar haul road not maintained and haul road affected due to heavy rain and land slide in the mine area.

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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	ROM production proposed 24500 Tonnes for year 2018-19.	24495.10 Tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	95 % recovery from ROM.	95 % recovery from ROM.	
3d	Quantity of mineral reject generation	Nil	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 Not Applicable Not Applicable
- 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, Jack hammer and wagon drill use for drilling 30 mm to 65 mm dia hole in limestone benches.  
 Jack hammer and wagon drill use for drilling 30 mm to 65 mm dia hole in limestone benches.  
 Blasting done by using AN and safety fuse with plain detonator.  
 Blasting done by using AN and safety fuse with plain detonator.



3k	Provision of mining machineries in mineral benches	yes, 0.5 Cum JCB use for loading operation and 10 Tonnes capacity Tippers use for Transportation of Limestone.	0.5 Cum JCB use for loading operation and 10 Tonnes capacity Tippers use for Transportation of Limestone.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5m height of benches were proposed.	Bench height were not maintained as proposed in Modified Mining Plan	
3m	Total area covered under excavation/pits	1.4 ha	1.4 ha	
3n	Ore to OB ratio for the pit/mine during the year.	01:00.0	01:00.0	No overburden present in this mine.
3o	Total area put in use under different heads at the end of year	1.78 ha	1.78 ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16 30510 Tonnes 2016-17 39375 Tonnes 2017-18 24342 Tonnes 2018-19 24500 Tonnes	2015-16 22513 Tonnes 2016-17 21600 Tonnes 2017-18 24334.70 Tonnes 2018-19 24495.10 Tonnes	
3q	General remarks of inspecting officers on method of mining etc.	Unsystematic mining carried out, bench height is more than proposed bench height. Proper formation of benches required in this mine.	Unsystematic mining carried out, bench height is more than proposed bench height. Proper formation of benches required in this mine.	

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not applicable	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	Not Applicable	Not Applicable	
4c	Number of dumps within lease area and outside of lease area	Not Applicable	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	No active dump present in this mine . only 01 inactive dump present.
4e	Number of active and alive dumps.	Nil	Nil	no active dumps present in this mine.
4f	Number of dead dumps.	1	1	only 01 dead dump present.
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for retaining wall.	No proposal for retaining wall.	
4i	Length of Retaining wall or garland drain all along dumps	Not Applicable	Not Applicable	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	one dead waste dump exist in this mine at present time.	One dead dump is exist within ML area, during this year is no waste generate in mine, dump use for future waste generation.	



## Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal for backfilling in 2018-19. year 2018-19.	No Proposal for backfilling in year 2018-19.	
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 topsoil present in mine.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Proposal for backfilling in year 2018-9. and area yet to matured for reclamation .	No Proposal for backfilling in year 2018-9. and area yet to matured for reclamation .	No Proposal for backfilling in year 2018-9. and area yet to matured for reclamation .

## Progressive Mine Clousre Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP report for year 2018-19 Not Submitted	PMCP report for year 2018-19 Not Submitted	Violation pont out as per rule 26(2) of MCDR-2017.
6b	Area available for rehabilitation (ha) .	Not Applicable	Not Applicable	
6c	afforestation done (ha).	0.08 ha area proposed for plantaion.	Planation not carried out as per proposal.	

6d	No. of saplings planted during the year	80 Sampling plant proposed during yera 2018-19.	Planation not carried out as per proposal.
6e	Cumulative no .of plants	450	450
6f	Any other method of rehabilitation	Not Applicable	Not Applicable
6g	Cost incurred on watch and care during the year	Nil	Nil
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 Submitted
  
- 6m Compliance of rehabilitation of waste land within lease (i)afforestation Plantation not carried out in this year. Plantation not carried out in this year.
  
- 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) Water, air and noise pollution monitored. Water, air and noise pollution monitored.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The area is not matured for reclamation. and PMCP report not submitted , Violation point out as per rule 26(2) of MCDR-2017.	The area is not matured for reclamation. and PMCP report not submitted , Violation point out as per rule 26(2) of MCDR-2017.	The area is not matured for reclamation. and PMCP report not submitted , Violation point out as per rule 26(2) of MCDR-2017.
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### Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	All the ROM salable in the market.	All the ROM salable in the market. No requirement of sorting .	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	grade-wise mineral sorting not applicable.	grade-wise mineral sorting 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	As such no adverse issues observed with regard to mineral conservation at this mine.	As such no adverse issues observed with regard to mineral conservation at this mine.	As such no adverse issues observed with regard to mineral conservation at this mine.

### Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil present in this mine.	No topsoil 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)	Not Applicable	Not Applicable
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)	Not Applicable	Not Applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Information given	Information given
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 surpreesion .	Water sprinkling on haul road for dust surpreesion .

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic environment is good except degradation of land.	Aesthetic environment is good except degradation of land.	Aesthetic environment is good except degradation of land.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All monthly and annual return for year 2018-19 submitted.	All monthly and annual return for year 2018-19 submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given, Mine Manager Mr. N.S Rana	Details given, Mine Manager Mr. N.S Rana	
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)	No mineral reject present in this mine.	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	Information Given	Information Given	



9h	Scrutiny of Annual return on fixed assets	Information Given	Information Given
9k	Scrutiny of Annual return on mining machineries	Information Given	Information Given

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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 33	25-OCT-19				
MCDR17 Rule 26(2)	25-OCT-19				
MCDR17 Rule 54(a)	25-OCT-19				
MCDR17 Rule 11(1)	25-OCT-19				

Date : 06.02.2020



(DAMODAR PRASAD SHARMA)

Indian Bureau of Mines