

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

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SRM/LST-1

Mine code : 38HPR10044

- (i) Name of the Inspecting : 004) Mukesh Kumar Sharma
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 20-JUN-22
- (v) Prev.inspection date : 20-NOV-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : BARWAS (8.91 HA)
- (b) **Registration NO.** : IBM/487/2011
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : HIMACHAL PRADESH
- District : SIRMUR
- Village : BARWAS
- Taluka : PAONTA SAHIB
- Post office : KAMRAOO
- Pin Code : 173029
- FAX No. : N.A
- E-mail : N.A
- Phone : (01704) 262449/(01704) 271:
- (f) **Police Station** : PAONTA SAHIB
- (g) **First opening date** : 08-MAR-87
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : C/O SHRI J.S FAUJI,VILLAGE AND POST SATAUN
DISTRICT -SIRMOUR
STATE- HIMACHAL PRADESH
3. (a) **Lease Number** : HPR0047
- (b) **Lease area** : 18.21
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 05-NOV-23
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : JAKRA MINES AND MINERALS,
 JALAM SINGH FAUJI VPO -
 SATAUN VIA-PAONTA SAHIB
 SIRMUR HIMACHAL PRADESH
 Phone:
 FAX :

Owner : JALAM SINGH FAUJI
 VILL & PO - SATAUN TEHSHIL
 - KAMRAO DISTRICT - SIRMOUR
 SIRMUR HIMACHAL PRADESH
 Phone: (01704) 2624449
 FAX :

Agent : Jalam Singh Fauji
 Village- Sataun Post-
 Sataun Via- Paonta Sahib
 SIRMUR HIMACHAL PRADESH
 Phone: (01704) 2624449
 FAX :

Mining Engineer

Name : Ajai Kumar, Part Time
 Qualification : B. Sc. (Hons) (Mining), AISM, SCC
 Appointment/ : 01-MAR-95
 Termination date

Manager

Name : Ajai Kumar
 Qualification : B. Sc. (Hons) (Mining), AISM, SCC
 Appointment/ : 01-MAY-95
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	15-FEB-95
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	02-MAY-00
		Mining Scheme rule 12 MCDR1988	09-NOV-11

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal was proposed during 2020-21	NA	
1b	Exploration over lease area for geological axis 1 or 2	6 Bore Holes Proposal was proposed during 2021-22	No exploration was carried out during the year 2021-22	Violation is observed & being issued
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	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 reserve as on 01/04/20	As on 01.03.2021 Reserves- 0.323755 million tonnes Resources- 3.365638 million tonnes Total- 3.689493 million tonnes	As on 31.03.2022 Reserves- 0.291437 million tonnes Resources-3.365638 million tonnes Total- 3.689493 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			6 DTH bore hole was proposed during 2021-22. Violation pointed out as per Rule 11(1) of MCDR 2017 for under exploration as per proposals.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Development was proposed towards Eastern flank part of area from 1524 mRL to 1518 mRL with height of benches is Three meters	Development work has been carried out at proposed place
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposals are incorporated	Only Mineral benches developed
2c	Stripping ratio or ore to OB ratio	1:0.05	Mining operation are in mineralised land at present
2d	Quantity of topsoil generation in m3	No proposals are incorporated	2021-22- Nil
2e	Quantity of overburden generation in m3	No such proposals is incorporated	2021-22- Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development work was carried out at proposed place but height of the benches observed more than proposed height.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	As per proposal 1(One) pit is proposed for production	Observed as per proposal	
3b	Quantity of ROM mineral production proposed	ROM proposed during 2021-22 is 75212Tonnes	Total production during 2021-22 is 32318.1 tonnes.	
3c	Recovery of saleable/usable mineral from ROM production	95% recovery from ROM	ROM is saleable in the market.	
3d	Quantity of mineral reject generation	No proposals are incorporated	No significant mineral reject in this mine is being generated..	

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 are incorporated	No segregating was carried out in the mine
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	Drilling operation proposed by Jack hammer machine hole dia 100 m depth 6 metre. Blasting operation was proposed by safety fuse and ordinary detonator.	Yes, Deployed as per proposal.
3k	Provision of mining machineries in mineral benches	Hydraulic excavation L&T with bucket capacity 0.9 cum using for limestone loading operation	Deployed as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Average Height of benches proposed are 6 m,	Bench height has been observed more than the proposed height
3m	Total area covered under excavation/pits	1.673 ha	Broadly as per the proposals

3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	More or less it is 1:0.05
3o	Total area put in use under different heads at the end of year	0.0324 ha	Within the limit of proposal incorporated in the mining plan.
3p	Production of ROM mineral during the last five year period as applicable	2017-18-93124 Tonnes 2018-19-114713 Tonnes 2019-20-120750 Tonnes 2020-21-131551 Tonnes 2021-22-75212Tonnes	2017-18-60116.80Tonnes 2018-19- 52146.90 Tonnes 2019-20- 36219 Tonnes 2020-21-54877.5 Tonnes 2021-22-32318.1 tonnes.
3q	General remarks of inspecting officers on method of mining etc.		Mining plan was approved on 13-09-2021. During the inspection it was observed that proposed development works has been carried out at the earmarked places.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals are incorporated	Insignificantly quantity of topsoil & Over burden is generated during year 2021-22	
4b	Location of topsoil, OB and mineral reject dumps	No proposals are incorporated	Insignificantly quantity of topsoil & Over burden is generated during year 2021-22	
4c	Number of dumps within lease area and outside of lease area	No proposals are incorporated	No active dump observed within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per proposals dumping was not proposed towards lease area	Not seen during the inspection.	
4e	Number of active and alive dumps.	None	Not applicable.	

4f	Number of dead dumps.	None	Not applicable.	
4g	Number of dumps established.	None	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal incorporated	Not erected	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable.	
4j	Number of settling ponds	Not applicable.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management			Insignificant quantity of top soil and overburden is present in this mine. No proposal incorporated for separated dumping of Top Soil and OB

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposals for backfilling in year 2021-22	Area has yet not been matured for backfilling.	
5b	Area under backfilling of mined out area	No proposals are incorporated	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals are incorporated	No proposals are incorporated	
5d	Total area fully reclaimed and rehabilitated	No proposals are incorporated	No proposals are incorporated	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area yet 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).	Proposed	Submitted	
6b	Area available for rehabilitation (ha) .	Not Proposal	Not applicable	
6c	afforestation done (ha).	Not Proposal	Not applicable	
6d	No. of saplings planted during the year	Not Proposal	Not applicable	
6e	Cumulative no .of plants	Not Proposal	Not applicable	
6f	Any other method of rehabilitation	Not Proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Not Proposal	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposal	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposal	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposal	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposal	Not applicable	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposal	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 saplings proposed during 21-22	55 saplings planted during 2021-22	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	50 saplings proposed during 21-22	55 saplings planted during 2021-22	
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)	Monitoring proposed	Monitoring is done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report under 26(2) of MCDR-2017 has been submitted within the stipulated time.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals incorporated,	95% ROM sailable in the marked	
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.	Grade wise sorting is not proposed.	Grade wise sorting is not carried out at the mine. As learnt shorting is carried out at stockyard.	
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 problem of mineral Conservation at this Mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil present in this mine	Nil	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal incorporated	Nil	
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)	No. proposal incorporated	Not applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline study done	During Year 2020-21, 55 sapling plant was planted out of 50 and 2155 Cumulative no. of plants are planted out of 250 sapling
8g	Survival rate	60 to 70%	It is around 60%
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul road for dust suppression in mine	Water Sprinkling on haul road for dust suppression is done occasionally.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty is maintained more or less except degradation of land due to mining. More focus is to be given to maintain the aesthetic beauty by planting suitable saplings having good survival rate depending on the existing climatic condition in and around mine site.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Proposal given	All Monthly and Annual Return Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer is appointed	Mining Engineer is appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area utilisation under current working-1.680, Reclaimed 1.00, used for waste disposal 0.060 and Road-0.180	Seen as per information given.	

9d	Scrutiny of Annual return on afforestation	Within lease area-50 plants Outside lease area-0	Broadly as per submission
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information given	Seen as per information given.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	32318.1 tonne	Found as per Information given
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price is 346.39 per tonne and Cost of production is 260.75 per tonnes	Found as per Information given
9h	Scrutiny of Annual return on fixed assets	-	-
9k	Scrutiny of Annual return on mining machineries	Air Compressor and Blast Host Drill	It is reported the hired tipper are being used

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

Violation observed				Show couse position		
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	22-SEP-22	10-NOV-22			
MCDR17	Rule 27(2)	22-SEP-22	10-NOV-22			
MCDR17	Rule 33	22-SEP-22	10-NOV-22			
MCDR17	Rule 34(1)	22-SEP-22				

Date :

(Mukesh Kumar Sharma)

Indian Bureau of Mines