

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

**MCDR INSPECTION REPORT**

**Dehradun regional office**

**Mine file No :** HP/SRM/LST-14

**Mine code :** 38HPR10024

- (i) Name of the Inspecting : 003 ) Manish Maindiratta  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 03-NOV-22
- (v) Prev.inspection date : 16-DEC-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : SANGRAH
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : HIMACHAL PRADESH
- District : SIRMUR
- Village : SANGRAH
- Taluka : SANGRAH
- Post office : SANGRAH
- Pin Code : 173023
- FAX No. : (01702)248271
- E-mail : NA
- Phone : (01702)248271
- (f) **Police Station** : SHRI RENUKAJI
- (g) **First opening date** : 10-MAY-78
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : SHRI - V. K. WALIA  
AT&PO-DADAHU, TEHSIL-RENUKA  
DISTT--SIRMUR , (HP)
3. (a) **Lease Number** : HPR0033
- (b) **Lease area** : 8.06
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 17-MAY-28
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : V.K.WALIA  
 S/O SHRI BABU RAM WALIA  
 VILL & PO - DADAHU TEHSIL -  
 RENUKAJI SIRMUR HIMACHAL  
 PRADESH  
 Phone:  
 FAX :

Owner : V.K.WALIA  
 VILL & PO - DADAHU TEHSHIL  
 - SHRI RENUKAJI DISTRICT -  
 SIRMOUR SIRMUR HIMACHAL  
 PRADESH  
 Phone: (01702) 267383  
 FAX : (01702) 267383

Agent : Shri V. K. Walia  
 Shri V. K. Walia VPO -  
 dadahu Tehshil - Renukaji  
 SIRMUR HIMACHAL PRADESH  
 Phone: 01702- 267383  
 FAX : 01702- 267383

## Manager

Name : D. K. SINHA  
 Qualification : AMIE (MINING)  
 Appointment/ : 01-JUL-08  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	25-AUG-89
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05-JUL-96
		Mining Scheme rule 12 MCDR1988	29-OCT-02
		Renewal under rule 22 MCR1960	30-OCT-08
		Renewal under rule 22 MCR1960	30-OCT-08
		FMCP under 23C(1)	05-JUL-12
		Modif.of approved Mining Plan	07-SEP-12
		MP modif under 17(3) MCR 2016	15-NOV-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4	4 holes undertaken in March 2022.	5.1854 ha of 8.055 ha under G1
1b	Exploration over lease area for geological axis 1 or 2	5.1854 ha under Glas per approved mining plan	5.1854 ha under Glas per approved mining plan	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Undertaken by own DTH machine	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved mining plan G1-5.1854 Ha G2-0 G3-0	As per approved mining plan G1-5.1854 Ha G2-0 G3-0	
1e	Balance reserve as on 01/04/20	As on 31.03.2022 Reserves- 1.50 million tonnes Resources-1.4 million tonnes Total- 3.9 million tonnes	As on 31.03.2022 Reserves- 1.50 million tonnes Resources-1.4 million tonnes Total- 3.9 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			5.1854 ha. Potentially mineralized area has been covered under

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed towards SE to NW of the lease in the existing pit	As proposed	
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	Nil	Nil	

2d	Quantity of topsoil generation in m3	No proposals are incorporated	Nil	
2e	Quantity of overburden generation in m3	5653	11582 MT Overburden reported in Mining Plan till December 2021 whereas only 955 T has been reported in Annual return	
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 as per approved mining plan. Violation of rule 11(1) is observed.

#### 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 80079Tonnes	Total production during2021-22 is 30692tonnes.	
3c	Recovery of sailable/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 segregation is done within the mines
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 with 6 metre high bench .	Undertaken as proposed.
3k	Provision of mining machineries in mineral benches	Hydraulic excavation L&T with bucket capacity 0.9 cum using for limestone loading operation	Machinery provided
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 parameters in all the working pits were found irregular w.r.t submissions in the approved mining plan
3m	Total area covered under excavation/pits	-	About 2.4 ha is under excavation
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 under roads 2.4 hectare under pits
3p	Production of ROM mineral during the last five year period as applicable	2017-18-75728 Tonnes 2018-19-70000 Tonnes 2019-20- 78927Tonnes 2020-21-73092 Tonnes 2021-22- 80079Tonnes	2017-18-79236Tonnes 2018-19-61790 Tonnes 2019-20-71924Tonnes 2020-21-50000.4Tonnes 2021-22-30692 tonnes.

3q General remarks of inspecting officers on method of mining etc.

During the inspection it was observed that proposed development works has been carried out at the earmarked places but the bench parameters are not as per proposals. Violation under rule 11(1) is observed.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	5653 tonnes of OB were proposed	955t OB generation reported.	
4b	Location of topsoil, OB and mineral reject dumps	Two active dumps proposed at NW direction near L boundary pillar	Active dump -1 (733550-733450, 3397650-3397750) One inactive dump is there near pillar-L	
4c	Number of dumps within lease area and outside of lease area	Two	2	Updated surface plan was not made available in inspection.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per proposals	one is w.r.t UPL and other is out of UPL	
4e	Number of active and alive dumps.	2	2	
4f	Number of dead dumps.	1	Partly stable.	
4g	Number of dumps established.	None	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	Found	
4i	Length of Retaining wall or garland drain all along dumps	proposed	Not erected as per proposals	

4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting officer on waste dump management			As per Mining plan 2 active dumps having 25140 tonnes are given but dumps have to be strengthened with proper parapet wall and garland drains. Samples of the one of the dumps have been taken for further analysis

#### 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
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted	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	70 saplings proposed during 21-22	As per proposal	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	70 saplings proposed during 21-22	As per proposal	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	70 saplings proposed during 21-22	As per proposal	
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.

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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 saleable in the market	
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 done in mine. proposed.	Reportedly no sorting is	

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7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Few samples from 3 different workings have been taken in view of the chemical composition of limestone.

## 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	as per proposals	
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	As per proposals	
8g	Survival rate	60 to 70%	It is around 70%	

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.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All Monthly and Annual Returns Submitted.	Discrepancy observed in annual return	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist appointed	Mining Engineer and Geologist appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working- 2.347 hectare, Infra & roads- 0.315 ha., Green belt 1.318 hectare.	Green belt is outside the lease area.	
9d	Scrutiny of Annual return on afforestation	1)Within lease area-50 plants 2)Outside lease area-0	Broadly as per submission	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No new mineral reject generation has been reported in 2021-22.	Broadly as per submission	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	30762 T ROM reported.	Broadly as per submission	
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	-	

9h	Scrutiny of Annual return on fixed assets	Data submitted -	
9k	Scrutiny of Annual return on mining machineries	As per proposal	As per proposal

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**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)	02-FEB-23			
MCDR17	Rule 33	02-FEB-23			
MCDR17	Rule 45(1)	02-FEB-23			
MCDR17	Rule 45(7)(a)	02-FEB-23			

**Date :**

**(Manish Maindiratta)**

Indian Bureau of Mines