

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

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SRM/LST-6

Mine code : 38HPR10002

- (i) Name of the Inspecting : 002) DAMODAR PRASAD SHARMA
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : JAGDISH ANAND, OWNER
Official with
Designation
- (iv) Date of Inspection : 24/12/2019
- (v) Prev.inspection date : 08/05/2019

PART-I : GENERAL INFORMATION

1. (a) Mine Name : BARWAS (15.03 HA)
- (b) Registration NO. : IBM/555/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : HIMACHAL PRADESH
District : SIRMUR
Village : BARBAS
Taluka : PAONTASAHIB
Post office : KAMRAOO
Pin Code : 173029
FAX No. : (0135)2 658467
E-mail : jagdishanand2@gmail.com
Phone : (0135)2 658467, (01704)262.
- (f) Police Station :
- (g) First opening date : 13/10/1967
- (h) Weekly day of rest : SUN
2. Address for : JAGDISH ANAND (R.P. ANAD & SONS)
correspondance : VPO - SATAUN, VIA- PAONTA SAHIB
DISTICT - SIRMOUR (HP)
3. (a) Lease Number : HPR0028
- (b) Lease area : 14.85
- (c) Period of lease : 20
- (d) Date of Expiry : 11/10/2007
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : RAM PRAKASH ANAND & SONS
 JAGDISH ANAND VPO - SATAUN,
 VIA - PAONTA SAHIB DISTRICT
 - SIRMOUR (HP) SIRMUR
 HIMACHAL PRADESH
 Phone: (0135) 2658467, (01704) 26243
 FAX :

Owner : JAGDISH ANAND
 R.P. ANAD & SONS VPO-
 SATAUN DISTRICT - SATAUN
 SIRMUR HIMACHAL PRADESH
 Phone: (01704) 262431,
 FAX :

Agent : JAGDISH ANAND
 AT&P.O.-SATAUN VIA-PAONTA
 SAHIB DIST.-SIRMOUR(H.P)
 SIRMUR HIMACHAL PRADESH
 Phone: (01704) 262431, (0135) 2658467
 FAX :

Manager
 Name : N. S. RANA
 Qualification : FOREMAN CERTIFICATE HOLDER
 Appointment/ : 01/01/2007
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	14/09/1989
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	29/01/1998
		Mining Scheme rule 12 MCDR1988	01/08/2003
		FMCP under 23C(1)	08/06/2011

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	04 nos boreholes proposed during year 2017-18.	Exploration was not carried out.	Exploration was not carried out.
1b	Exploration over lease area for geological axis 1 or 2	As per proposal inj MMP during year 2018-19 06 bore hole proposed.	During inspection it was observed 02 nos bore holes was carried out by the lessee .	During inspection it was observed 02 nos bore holes was carried out by the lessee .
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Proposal incorporated	Expenditure details not provided by lessee.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per proposal about ten percent lease area was proposed to bring geological axis in by putting four boreholes in fresh area.	During inspection it was observed exploration was not carreied out.	
1e	Balance reserve as on 01/04/20	Reserve under 111 0.237 Million Tonnes	Reserve under 111 0.237 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	Adquate proposals for exploration were incorporated in the modified mining plan aproved on 07.09.2018	Proposed exploration has not been carreied out as on date of Inspection.	Violation letter has been issued to lessee of Rule 11(1) of MCDR-2017.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	As per approved MMP, mining was proposed in the western part of the lease area from 1430 mRL to 1385 mRL.	Proposed working were carried out at earmarked place but mining is not carried out in a scientific manner.As per proposal mining shall be carried out by formation of nine benches maintaing the benches height is 5 mtr each.During inspection benches height is observed more than 5 mtr.	Proposed working were carried out at earmarked place but mining is not carried out in a scientific manner.As per proposal mining shall be carried out by formation of nine benches maintaing the benches height is 5 mtr each.During inspection benches height is observed more than 5 mtr.Violation point out to lessee under rule 11(1) of MCDR-2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No such proposal incorporated in the MMP.	No such proposal incorporated in the MMP.	No topsoil present in this mine.
2c	Stripping ratio or ore to OB ratio	01:00	01:00	No overburden present in this mine.
2d	Quantity of topsoil generation in m3	No proposal incorporated.	No top soil generated during year 2018-19.	No top soil generated during year 2018-19.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	development was carried at earmarked place but height of the benches is more than proposed height.mining is not carried out in a scientific manner.	development was carried at earmarked place but height of the benches is more than proposed height.mining is not carried out in a scientific manner.	Violation lette has been issued to lessee of Rule 11(1) of MCDR-2017.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	50000 Tonnes Limestone Production.	31319 Tonnes	No excess production observed.
3c	Recovery of sailable/usable mineral from ROM production	90 % recovery from ROM.	90 % recovery from ROM.	
3d	Quantity of mineral reject generation	2291 Tonnes	2000 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral rejects are in the form of dolomitic boulder or fine sized material.	Mineral rejects are in the form of dolomitic boulder or fine sized material.	
3f	Quantity of sub grade mineral generation.	Not Applicable	No sub grade minerals present in this mine.	No sub grade minerals present in this mine.
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposals incorporated.	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, Jack hammer drilling machine 33mm dia hole and weagon drill 64 mm dia using for drilling operation. Balasting using slurry explosive along with ANFO and ordinary detonators and safety fuse will be done.	Yes, Jack hammer drilling machine 33mm dia hole using for drilling operation. Balasting using slurry explosive along with ANFO and ordinary detonators and safety fuse will be done.	
3k	Provision of mining machineries in mineral benches	JCB 0.5 cum machine deployed for limestone loading operation	JCB 0.5 cum machine deployed for limestone loading operation	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Average Height of benches proposed are 5 mtr .	Average Height of benches more than 5 mtr observed.	
3m	Total area covered under excavation/pits	2.33 ha	2.30 ha	
3n	Ore to OB ratio for the pit/mine during the year.	01:00	01:00	No overburden generated during year 2018-19.
3o	Total area put in use under different heads at the end of year	3.2620 ha	3.2620 ha	

3p	Production of	2014-15	2014-15	0 Tonnes
	ROM mineral	35327 Tonnes	2015-16	8482 Tonnes
	during the last	2015-16	2016-17	37207 Tonnes
	five year period	35325 Tonnes	2017-18	25909 Tonnes
	as applicable	2016-17	2018-19	31319 Tonnes
		34980 Tonnes		
		2017-18		
		35000		
		Tonnes		
		2018-19		

2017-18
35000 Tonnes
2018-19
50000 Tonnes

2016-17
34980 Tonnes
2017-18

3q	General remarks of inspecting officers on method of mining etc.	No systematic mine development has been carried out. Number of benches as proposed have not been made and the height of constructed benches has not been maintained as per proposals.	No systematic mine development has been carried out. Number of benches as proposed have not been made and the height of constructed benches has not been maintained as per proposals.	Overall mine development is not satisfactory. Violation point out under rule 11(1) of MCDR-2017.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Insigificant quantity of soil and waste is generated.As regards to mineral reject to be generated shall be disposed off by means of stacking.the reject shall be stacked nera boundary pillar 10 & 11.	little quantity of reject have been generated wchich is stacked at earmarked place seperate.	
4b	Location of topsoil, OB and mineral reject dumps	As per proposal near boundary pillars 10 and 11.	As per proposals.	
4c	Number of dumps within lease area and outside of lease area	No proposals incorporated.	one old dump observed.	
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.	No proposals incorporated.	01 old dump observed.	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposals incorporated in MMP.	42 mtr along old waste dump already created.	42 mtr along old waste dump already created.
4i	Length of Retaining wall or garland drain all along dumps	No proposals incorporated in MMP.	42 mtr along old waste already created.	

4j	Number of settling ponds	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Insignificant quantity of waste is generated at the mine.	Insignificant quantity of waste is generated at the mine.

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 back filling proposed during year 2018-2019. since mining will not reach the ultimate pit limits), no back filling of pit is envisaged. The conceptual plan is for period upto 31.03.2020. only whereas life of mine is more than lease period. so the entire mineable mineral is not possible to excavate. However sides of the worked out area shall be dressed up properly.	No back filling proposed during year 2018-19. since mining will not reach the ultimate pit limits), no back filling of pit is envisaged. The conceptual plan is for period upto 31.03.2020. only whereas life of mine is more than lease period. so the entire mineable mineral is not possible to excavate. However sides of the worked out area shall be dressed up properly.	
5b	Area under backfilling of mined out area	No proposals incorporated	no area back filled.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable Not Applicable	No topsoil generated during year 2018-19.
5d	Total area fully reclaimed and rehabilitated	<p>No back filling proposed during year 2018-19. since mining will not reach the ultimate pit limits), no back filling of pit is envisaged. The conceptual plan is for period upto 31.03.2020. only whreras life of mine is more than lease period. so the entire mineable mineral is not possible to excavate. However sides of the worked out area shall be dressed up properly.</p>	<p>No back filling proposed during year 2018-19. since mining will not reach the ultimate pit limits), no back filling of pit is envisaged. The conceptual plan is for period upto 31.03.2020. only whreras life of mine is more than lease period. so the entire mineable mineral is not possible to excavate. However sides of the worked out area shall be dressed up properly.</p>

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No back filling proposed during year 2018-19.since mining will not reach the ultimate pit limits),no back filling of pit is envisaged.The conceptual plan is for period upto 31.03.2020.onl y whreras life of mine is more than lease period.so the entire mineable mineral is not possible to excavate.Howev er sides of the worked out area shall be dressed up properly.	No back filling proposed during year 2018-19.since mining will not reach the ultimate pit limits),no back filling of pit is envisaged.The conceptual plan is for period upto 31.03.2020.only whreras life of mine is more than lease period.so the entire mineable mineral is not possible to excavate.However sides of the worked out area shall be dressed up properly.
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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).	Proposals have been incorporated in the PMCP..	Not Submitted, Envisaged proposals were not implemented.	Violation letter issued to lessee as per rules 26(1) and 26(2) of MCDR-2017.

6b	Area available for rehabilitation (ha) .	As per proposals 0.05 ha of area is proposed to be brought under afforestation as a reclamation measures.in addition to this 130 mtr long wire fencing all along the pit,272m long (Cumulative length) parapet wall are also proposed to be constructed.	Not Submitted, Envisaged proposals were not fully implemented.	Violation letter issued notice issued to lessee as per rules 26(1) and 26(2) of MCDR-2017.
6c	afforestation done (ha).	0.05 ha	0.02 ha	
6d	No. of saplings planted during the year	60 nos	55 nos	
6e	Cumulative no .of plants	140 Nos	130 Nos	
6f	Any other method of rehabilitation	By way of constructing parapet walls,retainin g walls , garland drain and fencing.	By way of constructing parapet walls,retaining walls , garland drain and fencing.	
6g	Cost incurred on watch and care during the year	1500 rs	1000 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 backfilled area	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	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	Monitored

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP report not submitted for year 2018-19. Adequate protective measures have been incorporated in the PMCP.	PMCP proposals in MMP were not implemented. PMCP report of year 2018-19 also not submitted. Violation point out to lessee as per rules 26(1) and 26(2) of MCDR-2017.	PMCP proposals in MMP were not implemented. PMCP report of year 2018-19 also not submitted. Violation point out to lessee as per rules 26(1) and 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	Grade wise sorting is not envisaged in MMP.	Entire ROM is loaded in trippers from mine to stock yard.	
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 envisaged in MMP.	Entire ROM is loaded in trippers from mine to stock yard.	
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM brought to stock yard and sell to market.	No issue of mineral conservation of this mine.	

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposals incorporated.	No proposals incorporated.
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.
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)	Baseline study done	Baseline study done
8g	Survival rate	70% survival rate of plantation	70% survival rate of plantation
8h	Water sprinkling on roads to control airborne dust	Water sprikling on haul road for dust surpression.	Water sprikling on haul road for dust surpression.

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.
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Compliance of Rule 45:


Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	All Monthly returns and Annual Return for year 2018-19 Submitted.	All Monthly returns and Annual Return for year 2018-19 Submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information not given	Information not given	
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	
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	Returns scrutinized	Details of Cost of production is given In Annual Return.	

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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	09/01/2020			
MCDR17	Rule 12(4)	09/01/2020			
MCDR17	Rule 26(1)	09/01/2020			
MCDR17	Rule 26(2)	09/01/2020			
MCDR17	Rule 33	09/01/2020			
MCDR17	Rule 35(2)	09/01/2020			
MCDR17	Rule 54(a)	09/01/2020			

Date : 15.10.2020


15.10.2020
(DAMODAR PRASAD SHARMA)

Indian Bureau of Mines