

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

MCDR INSPECTION REPORT

Dehradun regional office

Mine file No : HP/SRM/LST-7

Mine code : 38HPR10018

- (i) Name of the Inspecting : 002) DAMODAR PRASAD SHARMA
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : KUMBHA RAM, MINING ENGINEER & P.K.SINHA, MINE MANAGE
Official with
Designation
- (iv) Date of Inspection : 15/09/2019
- (v) Prev.inspection date : 08/09/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : MANAL
- (b) **Registration NO.** : IBM/875/2011
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : HIMACHAL PRADESH
- District : SIRMUR
- Village : MANAL
- Taluka : PAONTA-SAHIB
- Post office : RAJBAN
- Pin Code : 173028
- FAX No. : 01704266270
- E-mail : minemanagercci@gmail.com
- Phone : 017042666221
- (f) **Police Station** : RAJBAN
- (g) **First opening date** : 01/08/1976
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S CEMENT CORPORATION OF INDIA LTD.
RAJBAN CEMENT FACTORY
P.O.-RAJBAN, DISTRICT - SIRMOUR. (H.P.)
3. (a) **Lease Number** : HPR0014
- (b) **Lease area** : 172.03
- (c) **Period of lease** : 47
- (d) **Date of Expiry** : 31/03/2020
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : CEMENT CORPN. OF INDIA LTD.
SIRMUR HIMACHAL PRADESH
Phone:
FAX :

Owner : Ms sarswati Devi
M/s CCI Ltd, Rajban Cement
Project, Post- Rajban,
Dist- sirmour, HP SIRMUR
HIMACHAL PRADESH
Phone: 01704-266221
FAX :

Agent : Sh. BVN Prasad
M/s CCI Ltd, Core-5, Scope
complex, SIRMUR HIMACHAL
PRADESH
Phone:
FAX :

Mining Engineer

Name : ASHOK GUPTA, Full Time
Qualification : B.E. MINING
Appointment/ : 29/12/2009
Termination date : 28/09/2010

Mining Engineer

Name : KUMBHA RAM, Full Time
Qualification : BE MINING
Appointment/ : 10/10/2016
Termination date

Manager

Name : S.K.Mohanty
Qualification : BE Mining
Appointment/ : 10/02/2018
Termination date

Manager

Name : Shri P.K.Sinha
Qualification : B.Sc. (mining engineering)
Appointment/ : 28/09/2010
Termination date : 23/12/2014

Manager

Name : S.B.CHATTURVEDI
Qualification : DIPLOMA IN MINING
Appointment/ : 01/01/2008
Termination date

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

:	Existing rule 11 MCDR1988	10/01/1991
	Mining Scheme rule 12 MCDR1988	24/06/1997
	Mining Scheme rule 12 MCDR1988	02/03/2000
	Mining Scheme rule 12 MCDR1988	25/06/2004
	Renewal under rule 22 MCR1960	25/06/2004
	Modif.of approved Mining Plan	12/01/2007

Existing rule 11 MCDR1988

07/03/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	No proposals have been incorporated for the year 2018-19	No proposals have been incorporated for the 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	NIL	NIL	
1e	Balance reserve as on 01/04/20	111-25.69 Million Tones, 221-24.12 MT, 331-10.8 MT, 332-5.71MT 333-14.02MT and 334 0.02 MT (As on 01.04.2019)	111-25.513 Million Tones, 221-24.12 MT, 331-10.8 MT, 332-5.71MT 333-14.02MT and 334 0.02 MT (As on 01.04.2019)	
1f	General remarks of inspecting officers on geology, exploration etc	No exploration was proposed during the year 2018-19.	No exploration was proposed during the year 2018-19.	In the latest approved mining plan approved on dated 11.07.2018 proposal for exploration to bring the entire non forest area under G-1 is proposed .the area is elongated towards E-W trend.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks

2a	Location of development w.r.t.lease area	One pit is proposed to be developed at 826 MRL to 802 MRL. As per proposal envised in the appeoved mining plan, mining shall be carried out in single pit with a bench height of 6 mtr each.The width of benches shall be made to 10 mtr each.overall back slope from horizontal shall be maintained to 35 degree with a ramp gradient 1 in 16.	Mining is going on as per proposal. Mining is being carried out in deposit no 3 almost in central part of the lease area.The shape of the pit almost irregular and nearly eliptical.4 benches have been developed with a pit slope 35 degree.	Almost all earlier excavation were found under mineralization.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Applicable	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:00	1:00	No top soil present in this mine.
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	NIL	NIL	No Overburden generated in this mine.
				No interburden generated in this mine.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	As per proposal mining shall be carried out at 826 MRL to 802 MRL by formation of benches of six meters height. Northin g 33838000N to 3384000 N, Easting 749700 E to 750200 E.	Pit is being worked in systematic manner. Maintaining proposed height around 6m and working was found in operation 820 MRL where excavation of blasted material loaded by L&T 200 excavator machine. Working is carried out in one shift. Adequate safety precautions are taken at the escarpment. However suggested for more safe guards at conspicuous locations and continuous monitoring .	The area lies in the foot hills of Himalaya. Further being hill terrain, focus is on already broken area for excavation limestone mineral.
----	---	---	--	--

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	2015-16 - 349950 Tons 2016-17 - 349975 Tons 2017-18 - 349220 Tons 2018-19 - 349922 Tons	2015-16-174360.725 Tons 2016-17-225781.06 Tons 2017-18- 174624.38 Tons 2018-19- 176559.39 Tons	
3c	Recovery of sailable/usable mineral from ROM production	Recovery is nearly 100%	Recovery is nearly 100%	As the entire material presently being excavated is limestone.
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	No mineral reject generate in this mine.	No mineral reject generate in this mine.	
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	Deep hole drilling (102 mm dia)and blasting provision found.	Deep hole drilling (102 mm dia)and blasting provision found. Dozer and allied machine found near site office for leveling of haul road. Haul road found affected by heavy rain recent past.drain dry side faces & work out benches was going on MRL 826.	
3k	Provision of mining machineries in mineral benches	One Hydraulic Excavator with 5 Nos tippers for loading and transportation of limestone ROM up to CSP.	One Hydraulic Excavator with 5 Nos tippers for loading and transportation of limestone ROM up to CSP.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Using Open cast method of mining & Bench height is 6 m in the limestone Mines.	Using Open cast method of mining & Bench height is 6 m in the limestone Mines.found satisfactory. Mining is going on at level 820 and limestone excavation made form level 826 to 802 MRL.	
3m	Total area covered under excavation/pits	14.7 ha	12.56 ha	
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NIL	no overburden present in this mine.
3o	Total area put in use under different heads at the end of year	16.99 ha	14.86 ha	

3p	Production of ROM mineral during the last five year period as applicable	2015-16-	2015-16-174360.725	Tons
		349950 Tons	2016-17-225781.06	
		2016-17 -	Tons	
		349975 Tons	2017-18 -174624.38	
		2017-18-349220 Tons	2018-19- 176559.39	
		Tons	2018-19-349922 Tons	
		Tons		

3q	General remarks of inspecting officers on method of mining etc.	Pit is being worked in systematic manner. Maintaining proposed height around 6m and working was found in operation 820 MRL where excavation of blasted material loaded by L&T 200 excavator machine. Working is carried out in one shift. Adquate safety precautions are taken at the escarpment. However suggested for more safe guards at conspicuous locations and continuous monitoring	Pit is being worked in systematic manner. Maintaining proposed height around 6m and working was found in operation 820 MRL where excavation of blasted material loaded by L&T 200 excavator machine. Working is carried out in one shift. Adquate safety precautions are taken at the escarpment. However suggested for more safe guards at conspicuous locations and continuous monitoring .
----	---	---	---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NIL	
4b	Location of topsoil, OB and mineral reject dumps	Not Applicable	Not Applicable	

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.	01	01
4g	Number of dumps established.	Not Applicable	Not Applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	110 Mtr	110 Mtr
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	No waste is there at present mining conditions. Mine already developed pit.	No waste is there at present mining conditions. Mine already developed pit.

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.	Not Applicable	Not Applicable	
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	
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area yet to not matured for reclamation and back filling	Area yet to not matured for reclamation and 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).	Annual report has not been received for which violation has been point out.	Annual report has not been received for which violation has been point out.	
6b	Area available for rehabilitation (ha) .	3.4 ha	Development of green belt and construction of drains along haul road.	
6c	afforestation done (ha) .	0.15 ha	Nil	
6d	No. of saplings planted during the year	1000	1200	
6e	Cumulative no .of plants	10000	11200	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Applicable, material directly goes to crusher side.	Not Applicable, material directly goes to crusher side.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Applicable, material directly goes to crusher side.	Not Applicable, material directly goes to crusher side.	

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.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Applicable,	Not Applicable,	
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)	1000 Nos	1200 Nos, Cumulative no. of plants 11200.
8g	Survival rate	70 to 75 %	70 to 75 %
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads for dust surpression.	Water sprinkling on haul roads for dust surpression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Area is on slope of hill. Except excavation, rest of area is green and moderate.	Area is on slope of hill. Except excavation, rest of area is green and moderate.

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	Information given.	Information 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)	Not Applicable	Not Applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Limestone grade is cement grade but indicate LG limestone.	Violation point out under rule 45(7) of MCDR-2017.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex Mine Price is not correct, necessary deduction not made for calculation of EMP. Cost of production is not correct (Transportation cost out side lease no deducted)	Violation point out as per rule 45(7) of MCDR-17.
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 26(2)	25/09/2019				
MCDR17 Rule 33	25/09/2019				
MCDR17 Rule 45(7) (a)	25/09/2019				
MCDR17 Rule 54(a)	25/09/2019				
MCDR17 Rule 54(b)	25/09/2019				

Date : 25-12-19


25-12-19
(DAMODAR PRASAD SHARMA)

Indian Bureau of Mines