

## MCDR DATA BASE

6 (9)

1. Mine Details		2. Inspection Details	
Name of Mine	Sheopura Kesarpura Limestone Mines.	Mine file no.	
Name of the lessee	M/s. Shree Cement Ltd.	Mine code No.	38RAJ01001
Lease area	856.8 Ha.	Date of first opening	01-01-1984
Date of execution	28-08-1998 (Renewal)	Date of inspection	13-02-2016
Expiry date	31-03-2030	Earlier two dates of inspection	17-06-2015 31-01-2015
State	Rajasthan	Name & Designation of the inspecting officer	Sh. S. K. Jha S.M.G. IBM, Ajmer
District	Ajmer	ID of inspecting officer	
Police Station	Beawar Sadar	Type of inspection	
Post	Beawar	Name & designation of mine official accompanying	Sh. T. K. Dhelawat Addl. G. M. (Mines)
Village	Jhak, Lutwa	Weekly day of rest	Sunday (Rotational Rest)
Pin Code	305901	Type of Mine (OC, UG, BOTH)	O. C.
Phone with STD code	01462 228101 - 06	Category of mines (A-Mech, A1-Mnual, B-Manual, B1-Very small)	A-Mech.
Fax with STD code	01462 228117	Status of Mines	Running
e-mail	shreebwr@shreecementltd.com		

## 3. LAND DETAILS (WITHIN LEASE AREA) (Upto Jan 2016)

Cod e	Type of land	Area ha	Code	Type of land	Area ha
1	Reserve forest	NIL	18	Degraded land by dump	39.60
2	Protected forest	NIL	19	Degraded land by pit in forest	NIL
3	Forest unclassified	NIL	20	Degraded land by dump in forest	NIL
4	Forest sanctuary	NIL	21	Degraded land by pit in non forest	76.90
5	Forest national park	NIL	22	Degraded land by dump in non forest	39.60
6	Forest mineralized	NIL	23	Degraded land by road in forest	NIL
7	Forest non mineralized	NIL	24	Degraded land by road in non forest	1.40
8	Non forest Private land	NIL	25	Degraded land by plant building Town in forest	NIL
9	Non forest agricultural irrigated land	NIL	26	Degraded land by plant building, Town in non forest	3.40
10	Non forest agriculture non irrigated land	153.10	27	Degraded land by tailing pond in forest	NIL
11	Non-forest Pvt. Other land	NIL	28	Degraded land by tailing pond in non forest	NIL
12	Non forest Govt. grazing land	NIL	29	Degraded land others in forest	NIL
13	Non forest Govt. waste land	703.70	30	Degraded land other in non forest	NIL
14	Non forest Govt. other land	NIL	31	Forest land acquired	NIL
15	Non forest mineralized	NIL	32	Non forest land acquired	600
16	Non forest non mineralized land	NIL	33	Area in forest	NIL
17	Degraded land by pit	76.90	34	Area in non forest	856.8

**4. MINERAL**

Main Mineral(s)	Associated Mineral(s)	Captive use Yes/no	End product	Non captive use		Remarks
				Domestic (Y/N)	Export (Y/N)	
Limestone	--	Yes (Captive use)	Cement/Clinker	-	-	-

**5. MINING PLAN/ MINING SCHEME**

Date of approval of mining plan with no	Additional conditions	Date of approval of mining scheme					Remarks
		Ist*	IInd*	IIIrd*	IVth*	Vth*	
1. 584(4)(3)(494)/ 98, 15.11.1999		584(6)(3)(151)/ 2004, COM North,IB M,04.06 .2004(M odified)	584(4)(3)(296)/ 2008, COM North,IB M,09.04 .2008	584(6)(3)(476)/2012 , COM North,IBM ,29.07.2013		--	

**6. NOMINATED OWNER/ AGENT DATA**

	A. Lessee	B. Owner	C. Agent
Name of	M/s. Shree Cement Ltd.	Sh. Ramakant Sharma	Sh. S. C. Suthar
Date of Nomination	-	27-12-2013	-
Postal address, State	P.B. No. 33, Bangur Nagar, State - Rajasthan	P.B. No. 33, Bangur Nagar, State - Rajasthan	P.B. No. 33, Bangur Nagar, State - Rajasthan
District	Ajmer	Ajmer	Ajmer
Village & Post	Beawar	Beawar	Beawar
Pin Code	305 901	305 901	305 901
Fax	01462 228117	01462 228117	01462 228117
E-mail	shreebwr@shreecementltd.com	shreebwr@shreecementltd.com	shreebwr@shreecementltd.com
Phone	01462 228101-06	01462 228101-06	01462 228101-06

**7. MINING ENGINEER/ GEOLOGIST DATA (APPOINTED UNDER RULE 42 OF MCDR, 1988) AND MINES MANAGER (APPOINTED UNDER MMR, 1961)**

Status	Name	Designation	Educational Qualification	Date of appointment	Remark
Mining Engineer/	Sh. Gaurav Singh Chouhan	Manager (Mines)	B. E. (Mining)	28-05-2012	
Geologist	Sh. P. S. Rathore	Dy. G. M. (Geology)	M. Sc. (Geology)	06-03-2013	
Manager	Sh. T. K. Dhelawat	Addl. G. M. (Mines)	B. E. (Mining)	22-04-2009	

**8. EXPLORATION****a) Cumulative exploration upto Jan 2016**

No. of boreholes	256	Nos. of pits	-	Nos. of trenches	-
Grid Interval (m)	125, 250, 20		-		-
Max Depth (m)	70.3 m	Max Depth (m)	-	Max length (m)	-
Min. depth (m)	3.5 m	In-depth (m)	-	Min. length (m)	-
Total meterage	5564.1	Total meterage	-	Total length (m)	-

**b) Exploration carried out during the year 2015-16 -**

No. of boreholes	8 (DTH)	Nos. of pits	-	Nos. of trenches	-
Grid interval (m)	20		-		-
Max Depth (m)	20			Max Length (m)	
Min. depth (m)	20	Min depth (m)	-	Min length (m)	-
Total meterage	160	Total meterage	-	Total length (m)	-

**c) Exploration carried out during the year 2014-15 - NIL**

No. of boreholes		Nos. of pits	-	Nos. of trenches	-
Grid interval (m)			-		-
Max Depth (m)				Max Length (m)	
Min. depth (m)		Min depth (m)	-	Min length (m)	-
Total meterage		Total meterage	-	Total length (m)	-

**d) Cumulative Exploration carried out as on date of inspection**

No. of boreholes	248+8=256 holes	Nos. of pits	-	Nos. of trenches	-
Grid Interval (m)	125, 20 & 250		-		-
Max Depth (m)	70.30 m	Max Depth (m)	-	Max length (m)	-
Min. depth (m)	3.50 m	Min. depth(m)	-	Min. length (m)	-
Total meterage	5564.10 mts	Total meterage	-	Total length (m)	-

**9. EXPLORATORY MINING YEAR - NIL**

	Proposed nos.		Min Depth		Max Depth		Total Depth/Length	
	2014-15	2015-16	2014-15	2015-16	2014-15	2015-16	2014-15	2015-16
i) Shafts								
ii) Inclines								
iii) Adits								
iv) Drive				NIL				
v) Cross cuts								
vi) Winze								
vii) Modifications								

**10. EXTENT OF OPEN-PIT DEVELOPMENT**

Pit No	Pit size	No. of OB benches	Ht bench (m)	Width (m)	No. of benches in ore	Ht (m)	Width (m)	Pit depth (m)	Top RL (m)	Bottom RL (m)	Overall pit slope
Block I	750*200 1625*165	-	-	-	9	9	20-40	81	563	500	65'
Block III	1000*400	-	-	-	8	9	20-40	72	563	500	65'
Block VA	450*200	-	-	-	6	9	20-40	27	563	518	65'

Data to be entered for bench having maximum height and width



**11. EXTENT OF UNDERGROUND DEVELOPMENT: - Not Applicable****i) Details of Shaft**

Shaft no./ name	Shaft top RL	Shaft bottom RL	Depth(m)

**ii) Details of incline**

Incline no./ name	Incline top RL	Incline bottom RL	Length(m)

**iii) Details of Adit**

Level no./ Name	Level RL	Level length

**iv) Details of Level**

Level no./ Name	Level RL	Level length

**12. (i)**

Shaft no./ name	Shaft top RL	Shaft bottom RL	Depth (m)

**(ii) Details of incline**

Incline no./ name	Incline top RL	Incline bottom RL	Length (m)

**(iii) Details of Adit**

Level no./ Name	Level RL	Level length

**(iv) Details of Level**

Level no./ Name	Level RL	Level length

**13. REHABILITATION OF QUARRIES****Quarry/ open pit**

Year	Area broken (Hect)	Area reclaimed	Area matured for reclamation	% of Reclamation	Area rehabilitated			Total area rehabilitated
					BF	WR	OM (In pit plantation)	
Cumulative as on <b>31.03.2014</b>	75.80	Nil	Nil	0%	0.50	-	-	
During the year <b>2014-15</b>	1.10	Nil	1.00	0%	0.50		0.45	
Cumulative as on <b>31.03.2015</b>	76.90	Nil	1.00	0%	1.00 ha		0.45 ha	
During the year <b>2015-16 (upto Jan 2016)</b>	Nil	1.00	1.00		0.50		0.45	
Cumulative as on <b>31.01.2016</b>	76.90	1.00	1.00	1.30%	1.00 ha		0.45 ha	

BF = Back filled, WR = Water reservoir, OM = other means, Remarks = under remarks give post mining land use of the area reclaimed.



## c) Annual production:

Year	Minerals	Production (t)	Closing stock (t)
2014-15	Limestone	1635302.00 MT	Nil
2015-16 (Upto Jan 2016)	Limestone	1569731.00 MT	Nil

**17. SALE OF MINERAL PRODUCT (MINERAL-WISE)** Sale of mineral in the year 2014-15: **Not Applicable**  
**(FOR CAPTIVE USE ONLY, NO SALE OF MINERAL)**

	Name of mineral	Quantity	Grade	Name of consuming industry type	Name of country of export
A) Main ore i) Lumps ii) Fines iii) Concentrate					
A) Associate d ore i) Lumps ii) fines iii) Concentrate			N.A		
A) Low grade i) Lumps ii) fines iii) Concentrate					

**18. SUBGRADE MINERALS AND MINERAL REJECT: NIL**

## a) Sub-grade mineral

	Name of Mineral	Quantity generated	Quantity consumed	% utilisation	Quantity stacked	Nature of utilisation	Grade of subgrade
Cumulative as on <b>31.3.14</b>							
During the previous year <b>2014-15</b>							
During the year <b>2015-16 (Up to Jan 16)</b>				NIL			
Cumulative as on date of inspection on.							



7  
b) Mineral reject: NIL

	Name of Mineral	Quantity generated	Quantity consumed	Quantity stacked	Nature of utilisation	Remarks
Cumulative as on <b>31.3.14</b>						
During the previous year <b>2014-15</b>						
During the year <b>2015-16 (Up to Jan 16)</b>				NIL		
Cumulative as on date of inspection on.						

**19. RECLAMATION / REHABILITATION OF WASTE DUMP**

Year	Qty. of O.B. Waste rock (tonnes)		Total area occupied by dumps (ha)		Area stabilized (ha)		Dump design (Max-ht, angle)			Method of stabilisation	No. of dump stabilised
	Excavated	Dumped	Dead	Alive	Dead	Alive	Ht	Angle	No. of terrace		
During the year <b>2014-15</b>	553948.2	553948.2	0.50	0.50	0.50	-	30		3	Plantation on waste dump.	3
Cumulative as on <b>31.03.2015</b>	251887.42.2	251887.42.2	17.55	22.05	17.55	-	30		3	Plantation on waste dump.	3
During the year <b>2015-16 (Upto Jan 2016)</b>	533732	533732	0.10	0.00	0.10	-	30		3	Plantation on waste dump.	3
Cumulative as on <b>31.01.2016</b>	257227.474.2	257227.474.2	17.65	21.95	17.65	-	30		3	Plantation on waste dump.	3

**20. RECLAMATION / REHABILITATION OF TAILING PONDS : NOT APPLICABLE**

**Tailing Ponds**

Year	Area occupied	Area stabilised/ rehabilitated	Means of rehabilitation
Cumulative as on <b>31.3.14</b>			
During the previous year <b>2014-15</b>			
During the year <b>2015-16 (Up to Jan 2016)</b>		N/A	
Cumulative as on date of inspection on.			

## 21. INPUT/ OUTPUT OF MACHINERY PERFORMANCE

## A. New Machinery 2015-16

Name of the new machine	Sector Private/ Public	Sub type Electric / diesel	Specification capacity (H.P.)	Capacity unit	No. of new items	Origin Indigenous/ imported	Purchase date	Cost	Commissioning date

## B. Write off Machinery: Not Any.

Name of the new machine	Sector Private/ Public	Sub type Electric/ diesel	Specification capacity	Capacity unit	No. of items removed	Origin Indigenous/ imported	Write off date	Write off values	
					N.A				

## C. Machinery on site

Machinery Category	Name of the machine	Sub type Electric / diesel	Specification Capacity (H.P.)	Capacity unit	Position (in use/ reserve/ ideal)	Sector Private/ Public	No. of Machine	% availability	% utilisation
Drilling	HRB-150	Diesel	260 & 102	650 CFM	In use	Private	1	73.75	73.75
	IBH-10	Diesel	6 1/2" dia	450 CFM	Reserve	Private	2		
Rock Breaker	Indus MS700H with carrier KOBELCO SK350L C-8	Diesel	264	90TPH	In use	Private	1	76.04	41.89
Bulldozer	Dozer BD 155A	Diesel	320	-	In use	Private	1	85.06	33.10
Front end Loader	Loader HM Terex	Diesel	110	--	In use	Private	1	=	=
Loading	Zaxis 650	Diesel	400	3.5 M <sup>3</sup>	In use	Private	2	94.06	61.00
	Tata Hitachi EX600	Diesel	320	3.5 M <sup>3</sup>	In use	Private	1	93.21	
	Tata Hitachi EX600	Diesel	320	3.5 M <sup>3</sup>	Reserve	Private	1		
	Tata Hitachi EX600	Diesel	320	3.5 M <sup>3</sup>	Reserve	Private	1		





**c) Noise Data Year (SHEET ATTACHED AS ANNEXURE-II.**

Station no.	Station name	Season	Type of area (Industrial/ commercial/ residential/ silence zone	Day time	Night time	Remarks
————— N/A —————						

**d) Water Data: - NIL**

i) Discharge place (Agriculture land/ Forest land/ Wasteland/ Nallah/ River	————— NIL —————
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**ii) Water management in abandoned quarries: - Not Applicable.**

Year	Quarry Pit ID	Reservoir Yes/No	Quarry size	Capaci ty min.	Capaci ty max.	Period capacit y min.	Period capacit y max.	Water utilisatio n	Remark
————— N/A —————									

**iii) Water data details- Annexure-3**

Year	Station no.	Station name	Station type (colony, pit, river, down stream)	Season	Element (drinking / Effluent)	Parame ter name	Parame ter value	Excess value	Remarks

**iv) Vibration data: - Vibration Report dated 02.02.2016 as Annexure-IV.**

Station no.	Station name	Season (Summer/ Winter/ Monsoon/ Post Monsoon)	Peak particle velocity	Air over pressure	Frequency	Remarks

**24. Lease particulars**

- a) Lease No. : 24/97(R)
- b) Lease area in hect. with forest area, if any : 856.80 Hect.
- c) Period of lease : Up to 31.03.2030 (As per new MMDR Act)
- d) In case of forest area if the permission has been taken, its details like area permitted to be worked & letter No. etc. : N/A
- e) if the area is worked on any interim Govt. order or court order, its details. : N/A
- f) Date of expiry. : 31.03:2030
- g) Mineral(s) included in the lease deed : Limestone
- h) Mineral(s) worked : Limestone

**25. Details about Mining Plan/ Mining Scheme**

- a) Letter No. and date of approval of mining plan : -Plan approved
- b) Letter No. and date of approval of mining scheme. : 584(6)(3)(476)2012, RCM, AJM, Dated-29.07.2013

- c) Condition while approving the MP/ MS/ : -  
modification
- d) Period of mining plan/ mining scheme in : 1<sup>st</sup> April 2013 to 31<sup>st</sup> March 2018  
force :

### 26. Details about employment.

Maximum number of persons employed on any day during the year (i) below ground (ii) above ground and (iii) in all in the mines. : **For year 2014-15** - 133 Nos. on 08-11-2014.

Classification	Average daily employment			No. of man days worked in a year	Remarks
	Direct	Contract	Total		
<b>OPENCAST</b>					
a) Managerial person	8	-	8	2891.5	
b) Supervisory persons	4	-	4	1513.5	
c) Workers	93	-	93	33669.0	
d) Ministerial persons	9	-	9	3128.5	
e) Employment in plant	=	=	=		
f) Others					
<b>UNDERGROUND</b>	<b>Not Applicable</b>				
a) Managerial person*					
b) Supervisory persons					
c) Workers					
d) Ministerial persons			N - A		
e) Employment in plant					
f) Others					

### 27. Community Development Plan (in and around the mines) --- (Separate Sheet attached s Annexure-V)

S. N	Proposed action towards socio-economic development during the current year	Expenditure proposed in Rs. Lakhs ( Previous financial year) (2014-15 )	Expenditure Incurred in Rs. Lakhs (Previous financial year) 2014-15	Expenditure proposed for current year 2015-16	Expenditure incurred so far 2015-16	Remarks
1	General development in the area					Give in brief the quantity, type and nature of work done against each of the items
	a) Housing					
	b) Water supply					
	c) Sanitation					
	d) Health, safety and medical facilities.		Attached	Ann. - V.		
2	Training					
3	Employment to local inhabitants					
4	Infrastructure-public transport, roads, communication and electricity					
5	Recreation and other sports activities					
6	Expenditure for environment management					
7	Others					
	Total					



% expenditure out of total annual budget				
Total				

**28. Status of compliance of MCDR, 88 including therewith the rectification of outstanding violation of the rules.**

Date of last inspection	Violation pointed out	Compliance reported				
31.03.2015	<p>(a) The North Eastern part was not developed below 506 mRL, as per proposal in Mining Scheme.</p> <p>(b) In approved mining scheme, it was proposed that to back fill the north eastern part of pit, which has not been completed.</p> <p>(c) In approved mining scheme it was proposed that western part of waste dump will be stabilized by construction of retaining wall, which was not implemented so far.</p> <p>(d) As per provision in approved mining scheme in the mining year 2013-14, 11.4 lakh tonnes of waste to be generated for the production of 20.0 lakh tonnes limestone and similarly, the stripping ratio comes to be 1:0.57, but during inspection it was found that during the working year 0.65 waste generated for the limestone production at 1.60 MT. Therefore the stripping ratio come to 1:0.40, this represents that proportional development of mine is not proper.</p>	<p>(a) During current year, Due to lack of demand of cement in market, One of two cement plants was not run for majority of period. Hence there is less production from mines. Also due to heavy rains, the working in bottom benches discontinued due to water logging (rain water). We had already installed a water pump &amp; utilizing this water in our plant. As soon as area is dewatered. We will again star working &amp; develop it up to 500 mRL.</p> <p>(b) In north eastern part we are in process of back filling of part in which mineral has been exhausted. We had back filled 1.0 Ha area in this part. The difference in the area of back filling is mainly due to less OB generation in first &amp; second year of scheme, Mainly due to less Limestone production than planned.</p> <p>(c) As briefed above, there has been less waste generation due to less limestone production. Due to less waste removal, The waste dump area extension is not as planned. Construction of retaining wall along western side of waste dump was planned as waste dump was supposed to extend outside western hillock. Till now hillock is acting as natural retaining wall &amp; does not allow waste dump material to flow beyond it. In coming year, if we construct retaining wall along that part.</p> <p>(d) With continues R/D in power plants, we are able to utilize low grade / reject material with lower calcium carbonate in our power plants as bed material of boilers as well as in FGD (flue gas desulphurization) plant. Lower stripping ratio in year 2013-14 we had utilized 228265.8 MT in power plants, which is reflected as Limestone in our production figures.</p> <table border="1"> <tr> <td>Year</td> <td>2013-14</td> </tr> <tr> <td>Limestone dispatched to</td> <td>1373696.6</td> </tr> </table>	Year	2013-14	Limestone dispatched to	1373696.6
Year	2013-14					
Limestone dispatched to	1373696.6					

cement plant	
Sub grade/Reject material consumed in Power Plants	228265.8
Total Limestone	1601962.4
Waste dumped into back filling / waste dump yards	651882.0
Waste including reject utilization in power plants	880147.8
Stripping ratio with reject utilization	1:0.64

It shows that development of mines is being done properly with efforts to utilize reject material to max extent

(e) As per approved mining scheme the maximum height of benches were proposed to be kept 9 m but during inspection it was observed that the height of benches on western part of the pit in block 111 was more than 12 m and similarly eastern part the height of benches was more than 13 m.

(f) As per approved scheme of mining, the waste dumps were proposed to be rehabilitated by plantation over them but during the inspection it was observed that wasted material is being rehandled for any other purpose (i. e. sub grade type of materials lying on the dump site).

(g) As per approved scheme of mining on the western part of dumps during inspection, it is observed that handling of waste dump continue and stack so many different stage and types of materials on dump site

(e) Normally bench height is maintained max 9 m, but due to natural unevenness it was slightly more at some places. We have dressed unevenness by rock breaker & maintained the bench height to max 9 m.

(f) The plan of rehabilitation of waste dump yards by plantation is being under taken as per approved mining scheme. During first 2 years of scheme, plantation was not proposed in waste dump yard as waste dump yard is active. The waste dump material is being utilized from active waste dump by western freight corridor railway project through "STP" (Short Term Permit) issued by state govt. The utilization of waste material will definitely added up to land environment protection as overall land degradation will be low. The utilization is being done of waste material only, not of sub grade mineral. The waste material being utilized as Gitti by crushing & screening to different size for construction purpose. Different sized waste material ready for dispatch was laying on waste dump yard.

(g) The utilization of waste material is being done by western freight corridor railway project through "STP" (Short Term Permit) issued by state govt. It is being crushed & screened to different use in construction as Gitti. Small quantities of sized waste material are stacked on site of generation & ready for dispatch for construction purpose. None of the sized material will be left over waste dump.

17.06.2015

**Rule 13(1)**- (A)The North Eastern part was not developed below 506 mRL as per proposal in approved Mining scheme.

(B)In approved mining scheme, it was proposed to back fill the north eastern part of pit, which has not been completed

(C) In approved Mining scheme, it was proposed that western part of waste dump will be stabilized by construction of retaining wall, which was not implemented so far.

(D) As per approved scheme of mining, The waste dumps were proposed to be rehabilitated by plantation over them, but during the inspection it was observed that waste material is being rehandled for any other purpose ( i.e. sub grade type of materials lying on dump site).

The north eastern part is developed upto 506 mRL. In this part mineral in depth is exhausted and we are back filling in this part. In other parts, after dewatering by utilizing the water in plant. We had develop working below 506 mRL and achieved 500 mRL working. We are extending the 500 mRL working area before rainy season.

In north eastern part, we are back filling the part in which mineral is exhausted we had back filled 1.70 Ha area in this part and will rehabilitate 0.80 Ha area by plantation over it in current rainy season.

The waste dump area extension is not as planned due to less waste generation. Construction of retaining wall along western side of waste dump was planned as waste dump was supposed to extend outside western hillock. Till now the hillock is acting as natural retaining wall and does not allow waste dump material to flow beyond it. In coming year, if we extend area of waste dump yard beyond natural hillock, we will construct retaining wall along that part.

The plan of rehabilitation of waste dump yards by plantation is being under taken as per approved scheme of mining. During first 2 years of scheme, plantation was not proposed on a waste dump yard as waste dump is active. Waste material is being utilized from active waste dump by western freight corridor railway project through STP. (Short term permit) Issued by state government. The utilization of waste material will definitely reduce the land degradation. The utilization of waste in this form is in best of environmental protection and mineral conservation. The utilization is being done of waste material only. Not of subgrade mineral. The waste material being utilized as gitti by crushing and screening to different sizes for construction purpose. Different sizes waste material ready for dispatch was lying on waste dump yard.



**29. Scientific Mining (As per latest approved mining Plan/Scheme) (Upto 31.03.2015)**

Item	Proposal 2014-15	Actual work done 2014-15	Remarks
<b>i) Exploration (Rule 13)</b>			
a) Type of prospecting and exploration i.e. pitting, drilling etc.	NIL	NIL	
b) Total area covered	NIL	NIL	
<b>ii) Workings (Rule 13)</b>			
a) Opencast/ underground	Opencast	Opencast	
b) Manual/ mechanised	Mechanized	Mechanized	
c) No. and size of each pit (L x W x H)	3 Nos.	3 Nos. (Dimension mentioned at point no.10)	
d) Bench size (1 x w x h) length can be defined as regular or irregular	9 meter Bench Height	9 meter Bench Height	
e) Ore to waste ratio pit wise if possible otherwise for mine.	1:0.65	1:0.34	
f) Total area covered under excavation/pits	79.6 ha	76.90 Ha	
<b>iii) Waste disposal (Rule 13)</b>			
a) Location of dumps	3 nos. of Dump	3 nos. of Dump	
b) Method of dumping whether advancing/ retreat	advancing	advancing	
c) Total area covered under waste dump	39.2	39.6 ha	
d) No. & size of each waste dump with number of steps lift/ bench.	3 nos of Dump having 30 meter ht. in 3 steps	3 nos of Dump having 30 meter ht. in 3 steps	
e) Yearly generation of waste quantity.	13.1 Lac ton	5.54 Lac ton	
f) Year-wise quantity of top soil removed, utilized & stacked.	nil	nil	

**30. Conservation of mineral- both quantitative and qualitative.****i) Mineral (Rule 15)**

(a) No benches in ore and waste

7 Nos. of Benches in Eastern Pit and 6 nos. of benches in western Pit  
1: 0.34

(b) Percentage of recovery of ore pit-wise w.r.t. ROM and total material

**ii) Sub-grade mineral/ fines (Rule 16)**

(a) Separate stacking from waste

NA

(b) Location of stacking

(c) Total area covered for stacking

(d) No. and size of each stack

(e) Quantity of yearly generation, utilisation and total quantity available during inspection with grade.

**iii) Beneficiation (Rule 20)**

(a) Efforts for improving low grade and sub-grade mineral.

NA

(b) The process flow sheet and material balance need to be given here.

(iv) Efforts for improving percentage of recovery of ore.

**10. Environment Management both quantitative and qualitative****i) Land Environment**

- (a) Landscape  
 (b) Aesthetic environment  
 (c) Soil and land use pattern  
 (d) Agriculture  
 (e) Forest (flora & fauna)  
 (f) Vegetation  
 (g) Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest.

Reclamation by Backfilling.  
 Presently 1.00 ha area backfilled in Eastern Pit.  
 Plantation work ( 2680 Plants)  
 Plantation work  
 No topsoil in the area  
 NA  
 NA  
 No vegetation  
 NA

**ii) Water Environment**

- (a) Surface water  
 (b) Ground water  
 (c) Quality of water

Rainwater is collected in Mines pits for reuse in Plant.  
 Rainwater is collected in Mines pits for recharging ground water.  
 No discharge.

**iii) Air Environment**

- (a) Noise  
 (b) Air  
 (c) Climatic condition

Quarterly Monitoring  
 Seasonal Monitoring as per MCDR guidelines  
 NA

**iv) Socio-economic environment**

- (a) Social and demographic profile  
 (b) Recommending health and safety  
 (c) Human settlement  
 (d) Recreational facility

NA  
 -  
 -  
 -

**31. Sensitive technical items on conservation of mineral, scientific mining and protection of environment:**

- Using MINIMATE for vibration monitoring.
- Controlled blasting by using latest techniques.

**32. Information on annual returns on cost of operation, reserves, production, pit mouth value, stock, land use pattern and fixed assets for the year 2014-15:**

Cost of operation :	₹ 179.04 Per Ton
Reserve	30.53 M T (Proved Mineable)
Production:	1635302 Tons
Pit's Mouth Value:	₹ 179.04 Per Ton
Stock: Closing stock: NIL	NIL
Land use pattern	Private Agriculture and Government waste land (Common with Shree Cement Ltd. Plant)
Fixed assets	₹ 42672348/-

**33. Development, production and Ore: O.B. ratio proposed in the Mining Plan/ Scheme for the last year and current year vis-a-vis those achieved.**

Activity [Items (a) & (e) are not very appropriately placed, but are furnished for convenience]	Previous Financial Year 2013-14		2014-15	
	Proposed	Achieved	Proposed	Achieved
(a) Exploration	6 Holes	6 DTH Holes		
(b) Development/ Over burden:	-	-		
(i) Top-soil				
(ii) Any other over burden than top-soil, sub-grade ore and ROM mineral rejects : <b>Waste.</b>	11.14 Lac Tons	6.05 Lac Tons	13.1 Lac Tons	5.54 Lac Tons
(iii) Sub-grade ore	-	-	-	-
(iv) ROM mineral rejects	-	-	-	-
(c) Production	20 Lac Tons	16.02 Lac Tons	20 Lac Tons	16.35 Lac Tons
(d) Ore: Overburden ratio	1 : 0.57	1 : 0.38	1:0.66	1 : 0.34
(e) Afforestation	2500	4000	2500	2680



**SIGNIFICANT WORK DONE****SYSTEMATIC DEVELOPMENT OF MINERAL DEPOSIT**


2013-14	2014-15
Systematic formation of benches.	Systematic formation of benches

**PROTECTION OF ENVIRONMENT**

2013-14	2014-15
Plantation done more than proposed. In year 2013-14, 3410 nos. saplings planted whereas proposal was only for 2500 nos.	Plantation done more than proposed. In year 2014-15, 2680 nos. saplings planted, whereas proposal was only for 2500 nos.

**CONSERVATION OF MINERALS**

2013-14	2014-15
Separate blasts organized for limestone and waste for maximum utilization of mineral.	Separate blasts organized for limestone and waste for maximum utilization of mineral.

  
 19/12/16  
 DR. SUNIL JHA  
 SMC, R.O. AJMER.