

INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/DOL/SNG/MCDR-5/BBS-12/5/01

Mine code : 38ORI13014

- (i) Name of the Inspecting : SRM ) SHRI SUDIP RANJAN MAZUMDAR  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Subrat Mishra, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 23/07/2019
- (v) Prev.inspection date : 14/12/2018

PART-I : GENERAL INFORMATION

1. (a) Mine Name : LANJIBERNA (~~893.55 HA~~) 873.057 Ha
- (b) Registration NO. : IBM/393/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : ORISSA  
District : SUNDARGARH  
Village : LANJIBERNA  
Taluka : RAJGANGPUR  
Post office : LANJIBERNA  
Pin Code : ~~770023~~ 770017  
FAX No. : 06624-220933  
E-mail : ocl\_rajgangpur@dalmiacement.com  
Phone : 06624-221212
- (f) Police Station : RAJGANGPUR
- (g) First opening date : 12/05/1951
- (h) Weekly day of rest : SUN
2. Address for : VILL/PO-LANJIBERNA  
correspondance : DIST-SUNDERGARH  
ODISHA
3. (a) Lease Number : ORI0016
- (b) Lease area : ~~1002.01~~ 873.057 Ha
- (c) Period of lease : ~~20~~ Validity of lease has been extended upto 29.02.2040
- (d) Date of Expiry : ~~20/08/1998~~ 29.02.2040
4. Mineral worked : DOLOMITE Associated  
LIMESTONE Main

## 5. Name and Address of the

Lessee : ORISSA CEMENT LIMITED  
 AT/PO RAJGANGPUR  
 SUNDARGARH ORISSA  
 Phone:20133,20733  
 FAX :20933, 20133

Owner : SHRI AMANDEEP  
 M/S OCL INDIA LIMITED  
 RAJGANGPUR ODISHA  
 SUNDARGARH ORISSA  
 Phone: 06624220933  
 FAX :

Agent : SAROJ KUMAR ROUT  
 LANJIBERNA RAJGANGPUR  
 ODISHA SUNDARGARH ORISSA  
 Phone: 06624676403  
 FAX :

## Mining Engineer

Name : B. JAGADEESH KUMAR, Full Time  
 Qualification : AMIE in Mining Engg  
 Appointment/ : 28/11/2015  
 Termination date

## Geologist

Name : DR. UDAYNATH SAHOO, Full Time  
 Qualification : M.Sc, M. Phil, Ph. D (Geology)  
 Appointment/ : 20/10/2010  
 Termination date

## Manager

Name : SUBRAT MISHRA  
 Qualification : Diploma in Mining Engg. & FCC  
 Appointment/ : 02/05/2019  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	27/01/2005
	:	Mining Scheme rule 12 MCDR1988	27/11/2005
	:	Modif. approved Mining Scheme	01/02/2007
	:	Renewal under rule 24 MCR1960	07/05/2009
	:	FMCP under 23C(1)	08/02/2012
	:	Modif. of approved Mining Plan	11/01/2013
	:	Mining Scheme rule 12 MCDR1988	25/03/2015
	:	MP modif under 17(3) MCR 2016	25/01/2018

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposal for drilling in 2018-19 was 218 nos of boreholes	Actual numbers of boreholes drilled in 2018-19 was only 10 nos of boreholes	Violation letter has been issued for non-compliance of exploration proposal.
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed to convert G2/G3 area into G1 level of exploration	As on 01.04.2019, area explored under G1 is 283.623 Ha and under G2 is 90.712 Ha.	As on 01.04.2019, area explored under G1 is 283.623 Ha and under G2 is 90.712 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Specified	Exploration Agency: M/s SPS Geo Mining Solution Pvt Ltd, Kolkata & Expenditure incurred : Rs 9.68 Lakh	Exploration Agency: M/s SPS Geo Mining Solution Pvt Ltd, Kolkata & Expenditure incurred : Rs 9.68 Lakh
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed to convert G2/G3 area into G1 level of exploration	As on 01.04.2019, area explored under G1 is 283.623 Ha and under G2 is 90.712 Ha.	As on 01.04.2019, area explored under G1 is 283.623 Ha and under G2 is 90.712 Ha.

1e	Balance reserve as on 01/04/20	As per annual return 2017-18, Reserve and Resource of Limestone as on 01.04.2018 is 83.72 million tonnes and 65.07 million tonnes respectively. Reserve and Resource of Dolomite as on 01.04.2018 is 23.21 million tonnes and 11.93 million tonnes respectively.	A. Reserve & Resource of limestone as on 01.04.2019 under UNFC categories: 111: 104.5925 million tonnes, 122: 12.651 million tonnes, 211: 14.630 million tonnes, 221: 20.845 million tonnes, 333: 18.596 million tonnes. B. Reserve & Resource of Dolomite as on 01.04.2019 under UNFC categories: 111: 15.84 million tonnes, 122: 4.285 million tonnes, 211: 1.53 million tonnes, 221: 1.925 million tonnes, 222: 1.575 million tonnes, 333: 4.59 million tonne	Reserves and resources as on 01.04.2019 is as per modification to review of mining plan approved dated 28.08.2019.
1f	General remarks of inspecting officers on geology, exploration etc	Proposal for drilling in 2018-19 was 218 nos. of boreholes to convert G2/G3 area into G1 level of exploration.	Actual numbers of boreholes drilled in 2018-19 was only 10 nos of boreholes. Violation letter has been issued for non-compliance of exploration proposal.	Actual numbers of boreholes drilled in 2018-19 was only 10 nos of boreholes. Violation letter has been issued for non-compliance of exploration proposal.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Q 1-3: 4626-5017 N & 3919-4797 E Location of development proposed in quarries. Q 2-6 : 4778-5708 N & 5910-7038 E Q 4-5 : 4926-5220 N, & 4823-5535 E	Location of development in quarries: Q 1-3: 4626-5017 N & 3919-4797 E Q 2-6 : 4778-5708 N & 5910-7038 E Q 4-5 : 4926-5220 N, & 4823-5535 E	Location of development in quarries: Q 1-3: 4626-5017 N & 3919-4797 E Q 2-6 : 4778-5708 N & 5910-7038 E Q 4-5 : 4926-5220 N, & 4823-5535 E

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate benches in Ore and OB except top OB benches. No separate bench of top soil as soil is intermixed with IB.	No separate benches in Ore and OB except top OB benches. No separate bench of top soil as soil is intermixed with IB.	No separate benches in Ore and OB except top OB benches. No separate bench of top soil as soil is intermixed with IB.
2c	Stripping ratio or ore to OB ratio	Stripping ratio of 1: 0.84 m <sup>3</sup> /m <sup>3</sup> has been proposed in 2018-19	Stripping ratio of 1: 0.64 has been achieved in 2018-19.	Violation has been issued for non-compliance of stripping ratio.
2d	Quantity of topsoil generation in m <sup>3</sup>	Not Proposed as soil is mixed with IB	There is no top soil generation.	There is no top soil generation.
2e	Quantity of overburden generation in m <sup>3</sup>	Proposal for overburden generation in 2018-19 was 1510700 m <sup>3</sup>	Actual overburden generated in 2018-19 was 1016562 m <sup>3</sup>	Violation has been issued for less generation of overburden in 2018-19.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In 2018-19, stripping ratio of 1: 0.84 m <sup>3</sup> /m <sup>3</sup> was proposed alongwith 15,10,700 m <sup>3</sup> quantity of overburden generation	In 2018-19, stripping ratio achieved was 1: 0.64 with 10,16,562 m <sup>3</sup> quantity of overburden generation. Violation has been issued for non-compliance in overburden generation as well as for non-compliance in stripping ratio achieved.	In 2018-19, stripping ratio achieved was 1: 0.64 with 10,16,562 m <sup>3</sup> quantity of overburden generation. Violation has been issued for non-compliance in overburden generation as well as for non-compliance in stripping ratio achieved.

## Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	Three nos of pits proposed for production, namely Q1-3, Q2-6 & Q4-5	Three nos of pits put for production, namely Q1-3, Q2-6 & Q4-5	Three nos of pits put for production, namely Q1-3, Q2-6 & Q4-5
3b	Quantity of ROM mineral production proposed	In 2018-19, ROM Limestone 4492750 tonnes and usable dolomite 46150 tonnes respectively.	In 2018-19, ROM quantity for limestone and usable dolomite achieved was 3947099 tonnes and 43664 tonnes respectively.	In 2018-19, ROM quantity for limestone and usable dolomite achieved was 3947099 tonnes and 43664 tonnes respectively.
3c	Recovery of sailable/usable mineral from ROM production	93.8%	100% as the mineral reject part of ROM has been blended with high grade ROM.	Total ROM Limestone has been utilised by blending of mineral reject with high grade ROM.
3d	Quantity of mineral reject generation	Mineral Reject limestone - 278000 tonnes	Mineral reject generated during the mining operation has been utilised by blending with high grade.	Mineral reject generated during the mining operation has been utilised by blending with high grade.
3e	Grade of mineral rejects generation and threshold value declared.	Mineral Reject grade of Limestone is 35-38% CaO and MgO < 7%	Mineral Reject grade of Limestone is 35-38% CaO and MgO < 7%	Mineral reject generated during the mining operation has been utilised by blending with high grade.
3f	Quantity of sub grade mineral generation.	Mineral Reject limestone - 278000 tonnes	Mineral reject generated during the mining operation has been utilised by blending with high grade.	Mineral reject generated during the mining operation has been utilised by blending with high grade.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised

- 3i Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. Not Proposed Nil No proposal for any beneficiation of limestone is contemplated except crushers used for crushing and reduction of ROM to output size 75 mm.
- 3j Provision of drilling and blasting in mineral benches Hydraulic drills are in operation. Broad blasting parameters as proposed are: Height of the bench: 8 m, Sub-drilling: 0.5 m, Depth of Blasthole: 8.5 m, Burden: 3.2 m, Spacing: 3.7 m, Hole diameter: 115 mm Drilling is carried out Atlascopco & Sandvik Hyd drill of 115 mm dia, Blasting Parameters: Burden-3.2 m, Bench Height- 8m, Spacing -3.7 m. Blasting is done with use of SME, Cast booster , Electronics detonator & NONEL to produce better fragmentation. Drilling is carried out Atlascopco & Sandvik Hyd drill of 115 mm dia, Blasting Parameters: Burden-3.2 m, Bench Height- 8m, Spacing -3.7 m. Blasting is done with use of SME, Cast booster , Electronics detonator & NONEL to produce better fragmentation.
- 3k Provision of mining machineries in mineral benches Shovel (Hydraulic) 1,4,6 cum- 10 nos;; dumper 35T, 50T: 33 nos; Dozer 320 HP: 3 nos; Rock drill (non-electric) 110 mm : 3 nos etc. Shovel (Hydraulic) 1,4,6 cum- 10 nos;; dumper 35T, 50T: 33 nos; Dozer 320 HP: 3 nos; Rock drill (non-electric) 110 mm : 3 nos etc. Excavator, Loader and Dumper are used in combination for winning of the mineral.
- 3l Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM Height of bench proposed is 8 m. Average Height of the bench at 8m is maintained. Average Height of the bench at 8m is maintained.

3m	Total area covered under excavation/pits	Area under mining at the end of plan period proposed is 144.71 Ha.	Area under mining at the end of 2018-19 is 142.583 Ha. Data as furnished in Annual Return for 2018-19.	Area under mining at the end of 2018-19 is 142.583 Ha. Data as furnished in Annual Return for 2018-19.
3n	Ore to OB ratio for the pit/mine during the year.	Stripping ratio of 1: 0.84 m <sup>3</sup> /m <sup>3</sup> has been proposed in 2018-19	Stripping ratio of 1: 0.64 has been achieved in 2018-19.	Violation has been issued for non-compliance of stripping ratio.
3o	Total area put in use under different heads at the end of year	Total area put under different head at the end of plan period is 226.65 ha	Total area put under different head at the end of 2018-19 is 224.523 ha. Data as furnished in Annual Return for 2018-19	Total area put under different head at the end of 2018-19 is 224.523 ha. Data as furnished in Annual Return for 2018-19
3p	Production of ROM mineral during the last five year period as applicable	2014-15 : Limestone = 4200000 MT, 2015-16 : Limestone = 4169650 MT, 2016-17 : Limestone = 4358710 MT, 2017-18 : Limestone = 4389690 MT, 2018-19 : Limestone = 4492750 MT,	2014-15 : Limestone = 2789670.50 MT, 2015-16 : Limestone = 3539799.50 MT, 2016-17 : Limestone = 3828182.64 MT, 2017-18 : Limestone = 4150721.00 MT, 2018-19 : Limestone = 3947099.00 MT,	2014-15 : Limestone = 2789670.50 MT, 2015-16 : Limestone = 3539799.50 MT, 2016-17 : Limestone = 3828182.64 MT, 2017-18 : Limestone = 4150721.00 MT, 2018-19 : Limestone = 3947099.00 MT,
3q	General remarks of inspecting officers on method of mining etc.	Three nos of pits proposed for production, namely Q1-3, Q2-6 & Q4-5. Stripping ratio of 1: 0.84 m <sup>3</sup> /m <sup>3</sup> has been proposed in 2018-19.	Three nos of pits put for production, namely Q1-3, Q2-6 & Q4-5. Number of pits put for production was three. Stripping ratio of 1: 0.64 has been achieved in 2018-19. Violation has been issued for non-compliance of stripping ratio.	Three nos of pits put for production, namely Q1-3, Q2-6 & Q4-5. Number of pits put for production was three. Stripping ratio of 1: 0.64 has been achieved in 2018-19. Violation has been issued for non-compliance of stripping ratio.



## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB has been proposed. No top soil and mineral reject dump has been proposed.	Waste dumping has been done over the backfilled area as per proposal.	Waste dumping has been done over the backfilled area as per proposal.
4b	Location of topsoil, OB and mineral reject dumps	Location of OB dumping: 5000-5430 N & 3800-4555E	Location of OB dumping: 5000-5430 N & 3800-4555E	There was no proposal for separate mineral reject and top soil dump.
4c	Number of dumps within lease area and outside of lease area	One no of active dump and 11 nos of inactive dump within lease area.	There are one no of active and 11 nos. of inactive dumps within lease area. There is one old dump namely dump no 6S on the southern side of the mining lease boundary between boundary pillar no O & P.	The presence of old dump outside the lease boundary has been intimated to State Government via letter no MSM/FM/08-ORI/BHU/2019-20/790 dated 26.07.19.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Location of dump outside the UPL	Location of dump outside the UPL	Location of dump outside the UPL
4e	Number of active and alive dumps.	One no of active dump within lease area	One no of active dump within lease area	One no of active dump within lease area
4f	Number of dead dumps.	11 nos of dead dump within lease area	11 nos of dead dump within lease area	11 nos of dead dump within lease area
4g	Number of dumps established.	1 no of active dump and 11 nos. of dead dump stabilized through plantation within lease area	1 no of active dump and 11 nos. of dead dump stabilized through plantation within lease area	1 no of active dump and 11 nos. of dead dump stabilized through plantation within lease area

4h	Whether Retaining wall or garland drain all along dumps are there.	Length of the retaining wall proposed to be constructed in 2018-19 was 538 m	Length of the retaining wall constructed in 2018-19 was 150 m only. Violation letter has been issued to lessee for non-compliance of proposal.	Length of the retaining wall constructed in 2018-19 was 150 m only. Violation letter has been issued to lessee for non-compliance of proposal.
4i	Length of Retaining wall or garland drain all along dumps	Length of the retaining wall proposed to be constructed in 2018-19 was 538 m	Length of the retaining wall constructed in 2018-19 was 150 m only. Violation letter has been issued to lessee for non-compliance of proposal.	Length of the retaining wall constructed in 2018-19 was 150 m only. Violation letter has been issued to lessee for non-compliance of proposal.
4j	Number of settling ponds	Desilting of settling ponds have been proposed in 2018-19.	Desilting of settling ponds have been done as proposed.	Desilting of settling ponds have been done as proposed.
4k	Specific comments of inspecting officer on waste dump management	One no of active dump and 11 nos of inactive dump within lease area. Length of the retaining wall proposed to be constructed in 2018-19 was 538 m.	There are one no of active and 11 nos. of inactive dumps within lease area. The location of active OB dump between coordinates 5000-5430 N & 3800-4555E. There is one old dump namely dump no 6S on the southern side of the mining lease is outside the mining lease boundary between boundary pillar no O & P. Length of the retaining wall constructed in 2018-19 was 150 m only. Violation letter has been issued to lessee for non-compliance of proposal.	The presence of old dump outside the lease boundary has been intimated to state government via letter no MSM/FM/08-ORI/BHU/2019-20/790 dated 26.07.19.

## Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not Proposed	Not Applicable.	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable.	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	There is no separate top soil generation.	There is no separate top soil generation.
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Not Applicable.	Not Applicable.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling has not been proposed.	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.

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).	As per Rule 26 (2) of MCDR 2017.The holder of mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan, and if there is any deviation, reasons thereof	Annual Return on PMCP for the year 2018-19 has been submitted.	Annual Return on PMCP for the year 2018-19 has been submitted.
6b	Area available for rehabilitation (ha) .	Not proposed	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
6c	afforestation done (ha).	Gap plantation	In 2018-19, 4100 nos. of saplings have been planted by lessee	In 2018-19, 4100 nos. of saplings have been planted by lessee
6d	No. of saplings planted during the year	In 2018-19, 4000 nos. of saplings to be planted.	In 2018-19, 4100 nos. of saplings has been planted. Data as furnished in annual return and PMCP return for 2018-19.	In 2018-19, 4100 nos. of saplings has been planted. Data as furnished in annual return and PMCP return for 2018-19.

6e	Cumulative no .of plants	Not Specified	Cumulative nos. of saplings planted in the lease area is about 326734 nos.	Cumulative nos. of saplings planted in the lease area is about 326734 nos.
6f	Any other method of rehabilitation	Not Proposed	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
6g	Cost incurred on watch and care during the year	Not specified	Around Rs 16.74 lakh cost incurred on watch and care.	Around Rs 16.74 lakh cost incurred on watch and care.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed.	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.

6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Nil. Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Proposed	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitor of air, water and noise are being carried out.	Regular monitor of air, water and noise are being carried out.	Regular monitor of air, water and noise are being carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No proposal for reclamation and rehabilitation	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	Mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.

## Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Cement Grade limestone dispatched to captive plant.	Cement Grade limestone dispatched to captive plant.	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Nil
7c	Different grade of mineral sorted out at mines.	CaO >38% & MgO 5-7% and CaO 35-38% & MgO 5-7%	Cement Grade limestone CaO >38% & MgO <7% is directly send to captive plant.	Nil
7d	Any beneficiation process at mines	Not Proposed	Nil	No proposal for any beneficiation of limestone is contemplated except the crushers used for crushing and reduction of ROM to output size 75 mm.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Cement Grade limestone CaO >38% & MgO <7% is directly send to captive plant.	Cement Grade limestone CaO >38% & MgO <7% is directly send to captive plant. No proposal for any beneficiation of limestone is contemplated except the crushers used for crushing and reduction of ROM to output size 75 mm.	Cement Grade limestone CaO >38% & MgO <7% is directly send to captive plant. No proposal for any beneficiation of limestone is contemplated except the crushers used for crushing and reduction of ROM to output size 75 mm.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No separate removal and utilisation of top soil has been proposed.	There is no separate top soil generation as the pits are already developed.	Nil

8b	Concurrent use or storage of topsoil	Not Proposed	There is no separate top soil soil generation as the pits are already developed. Hence, there is no concurrent use or storage of top soil.	There is no separate top soil soil generation as the pits are already developed. Hence, there is no concurrent use or storage of top soil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste in location between coordinates 5000-5430 N & 3800-4555E has been proposed.	Separate dumping of waste in location between coordinates 5000-5430 N & 3800-4555E has been done as per proposal.	Separate dumping of waste in location between coordinates 5000-5430 N & 3800-4555E has been done as per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	The mineralisation continues in depth and pits are not matured for reclamation.	The mineralisation continues in depth and pits are not matured for reclamation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	The mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.	The mineralisation continues in depth and pits are not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal for plantation in 2018-19.	Total 4100 nos. of saplings have been planted during 2018-19.	As reported in annual return of 2018-19
8g	Survival rate	Not Specified	As reported in annual return of 2018-19, the survival rate is 70%.	As reported in annual return of 2018-19, the survival rate is 70%.



8h	Water sprinkling on roads to control airborne dust	Two nos, one of 10 KL and the other of 18 KL pressurized water sprinklers are in operation throughout the shift to suppress dust in mine haul road due to transportation of dumpers, mines floor , blasted muck pile etc. Besides, permanent water sprinklers on main haul roads have been installed which is operational at frequent intervals for sufficient wetting of haul road.	Two nos, one of 10 KL and the other of 18 KL pressurized water sprinklers are in operation throughout the shift to suppress dust transportation of dumpers, mines floor , blasted muck pile etc. Besides, permanent water sprinklers on main haul roads have been installed which is operational at frequent intervals for sufficient wetting of haul road.	Two nos, one of 10 KL and the other of 18 KL pressurized water sprinklers are in operation throughout the shift to suppress dust in mine haul road due to transportation of dumpers, mines floor , blasted muck pile etc. Besides, permanent water sprinklers on main haul roads have been installed which is operational at frequent intervals for sufficient wetting of haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No proposal for reclamation and rehabilitation .	The mineralisation continues in depth and the pits are not matured for reclamation. Aesthetic beauty in and around mines is mainted. In 2018-19, 4100 nos. of saplings have been planted by the lessee.	The mineralisation continues in depth and the pits are not matured for reclamation. Aesthetic beauty in and around mines is mainted. In 2018-19, 4100 nos. of saplings have been planted by the lessee.

## Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Returns and Annual Return for 2018-19 have been submitted.	Monthly Returns and Annual Return for 2018-19 have been submitted.	Monthly Returns and Annual Return for 2018-19 have been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Engineer, Geologist and Manager have been furnished in Annual return for 2018-19.	Mining Engineer, Geologist and Manager have been appointed. In pursuant to Rule 46 of MCDR 2017, the lessee has intimated in Form H regarding change in Mines Manager. Shri Subrat Mishra is appointed as mines manger with effetct from 02.05.2019 in place of Shri Lokesh Shrimali as mentioned in Annual return for 2018-19.	Mining Engineer, Geologist and Manager have been appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under O/C workings; 142.583 Ha, Area used for waste disposal: 59.46 Ha, Area occupied by plant, buildings, residential, welfare buildings & roads: 22.48 Ha	Area covered under O/C workings; 142.583 Ha, Area used for waste disposal: 59.46 Ha, Area occupied by plant, buildings, residential, welfare buildings & roads: 22.48 Ha	Data as furnished in annual return for 2018-19.
9d	Scrutiny of Annual return on afforestation	Total 4100 nos. of saplings have been planted during the year 2018-19.	Total 4100 nos. of saplings have been planted during the year 2018-19.	Data as furnished in annual return for 2018-19.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	MR- Nil	MR- Nil	MR- Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of ROM limestone: 6505.23 tonnes	Closing stock of ROM limestone: 6505.23 tonnes	Closing stock of ROM limestone: 6505.23 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price of cement grade limestone -Rs 297.07/tonne	Ex-mine price of cement grade limestone -Rs 297.07/tonne	Ex-mine price of cement grade limestone -Rs 297.07/tonne
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets- Rs 1092281171 (in respect of the mine, beneficiation plant, mine workshop, power and water installation)	Value of fixed assets- Rs 1092281171	Data as furnished in annual return for 2018-19.
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic) 1,4,6 cum: 10 nos; dumper (35 T, 50 T capacity): 33 nos; Grader (145 HP capacity): 1 no; Rock drill: 4 nos; Backhoe (1 cum capacity) : 1 no etc.	Shovel (Hydraulic) 1,4,6 cum: 10 nos; dumper (35 T, 50 T capacity): 33 nos; Grader (145 HP capacity): 1 no; Rock drill: 4 nos; Backhoe (1 cum capacity) : 1 no etc.	Shovel (Hydraulic) 1,4,6 cum: 10 nos; dumper (35 T, 50 T capacity): 33 nos; Grader (145 HP capacity): 1 no; Rock drill: 4 nos; Backhoe (1 cum capacity) : 1 no etc.

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 11(1)	13/08/2019			

Date : 10/09/19

*Semaqurdon*  
10/09/19  
(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines